

**EMS\_english**

COLLABORATORS

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## Chapter 1

# EMS\_english

### 1.1 EMS\_english.guide

Introduction  
The System  
Address Format  
Configuration  
EMS\_config  
EMS\_editor  
ARexx Commands  
Scripts  
How To Register  
Error codes  
Index

### 1.2 EMS\_english.guide/Introduction

Introduction  
\*\*\*\*\*

The purpose of EMS is made clear by the meaning of its name: to manage in an easy and uniform way an Electronic Mail System. The word "Mail", here, has a wider meaning than that of "Messages", since it also includes files, much the same way conventional mail also dispatches parcels.

In an uniform way, I said. In fact, unlike other products, EMS can be used with FIDONET technology networks AND with USENET-kind network, with the same kind of interaction. The software takes on itself all the work required to overcome the differences between different networks.

EMS is not a single, huge executable file, but rather a set of modules, configured as run-time libraries, each dealing with a different task. The whole thing only runs with Kickstart 2.0 or newer: it's both a choice (Kick 2.0 is a major step onwards if compared with earlier versions of the O.S), and a necessity, since BOOPSI only comes

---

with the new operating system.

Now what has BOOPSI ("Basic Object-Oriented Programming System for Intuition") to do with us? Isn't it something that has to do with graphics, and not with electronic mail...? False, we need it. First, because the software relies, for its graphic part, on a library (odd, isn't it!?) called OBJECTIVEGADTOOLS.LIBRARY, which makes possible to get very 2.0-compliant interfaces, automatically adapting to the selected font, be it fixed-width or proportional: never more topaz 8 on 1000x1000 screens! Second, because BOOPSI is much like a philosophy, the philosophy of object-oriented programming with dynamic binding.

\*"Sounds nice. But what is the advantage for me, earthly user?!"\*

What you get is a more reliable piece of software, able to perform extremely complicated tasks in an easy way. Here's a quick example. EMS deals not only with messages, but also with files. From within the editor, you can read the text of a message, or switch to the files database and read the descriptions of the files in the BBS, add a new file, delete it, or send it to someone. All ARexx commands that can affect a message can also affect a file in the same way, and this is only made possible by the use of BOOPSI. Of course you do not get only advantages; there is a disadvantage too: less speed than with a traditionally written program, dealing with the same task. In other word, if a traditional software and one written using BOOPSI can perform the same task, the traditional software *may* be faster. But with a closer look, you would soon notice that the faster program chokes on tasks that the other software can perform easily.

### 1.3 EMS\_english.guide/The System

The System

\*\*\*\*\*

EMS is distributed on many subdirectories of a single directory, assigned as 'EMS:'

```
EMS:
|
+ bin          --> EMS_Editor ...
|
+ db           --> BASIC_db
|
+ libs         --> EMS.library ...
|
+ config       --> AKAs
|
+ configCustom --> Origins ...
|
+ rexx         --> Import.ems WriteMsg.ems ...
```

We already pointed out that EMS is not a single program, but rather a set of libraries. The only actions needed to boot it up are:

```
Assign EMS: .
Assign LIBS: EMS:libs REMOVE >nil:
Assign LIBS: EMS:libs ADD >nil:
```

On the other hand, to shut everything down, you only need to launch a script called 'EMS:rexx/ShutDown.ems'. It is very important to remember to launch the script before each reset or switching off, to be sure that files are properly updated and closed. Libraries are closed, but not immediately expunged from memory, which happens when you execute 'Avail Flush' or when the available memory pool is getting small.

If you are a registered user, you must put the 'EMS.key'(1) file in the 'EMS:' directory, for the program to properly recognize it.

----- Footnotes -----

(1) GCCHOST V4.0 users should rename this way their keyfile.

## 1.4 EMS\_english.guide/Address Format

Address Format  
\*\*\*\*\*

EMS supports 3 kinds of addressing: FIDONET, UUCP, USENET.

FIDONET addressing has the form:

```
<zone>:<net>/<node>[.<point>]@<domain>
```

Beware of the difference between '2:332/505@fidonet.org' and '2:332/505.0@fidonet.org': the first is a node, the second not. The software tries, wherever possible, to figure out the missing part(s) of an address: for example, when writing a message, '505.3' will be expanded to '2:332/505.3', provided that the address set for that area is e.g. '2:332/505@fidonet.org'. Please note that addresses should always be written in their complete form in the configuration files.

UUCP addressing has the form:

```
<name>! ... !<name>!<user name>
```

where '<name>' are the net names of the machines at a different hierarchy. If it's an address of yours, the rightmost names are the names of the nearer systems, and the last on the right is the name of your system. When you need to specify a specific machine, such as your own, you only write '<name>.UUCP'.

USENET addressing has the form:

```
[<user name>@]<subdomain>. ... .<domain>
```

For example, you can convert a FIDONET address in USENET format, as in

```
2:332/505.3@fidonet.org -> Davide@p2.f505.n332.z2.fidonet.org
```

All these formats are fixed, i.e. they only specify a single address. There is a situation in which you need a format to specify whole groups with a single stroke, and that's 'Routing'. 'From' addresses in the 'Routing' configuration, and only they, can have a slightly different format, called *\*wild\**, where you can add in some modifiers:

\*\*\*

Stands for any number of characters, including zero. For example, '2:33\*/\*@fidonet.org' is equivalent to \*All nodes in fidonet zone 2, whose net numbers begin with 33\*.

\*?\*

Stands for one and only one character. For example, '2:332/505.\*@fidonet.org' is equivalent to \*All points of node 2:332/505@fidonet.org\*, because it states that there must be at least a character after the point, and it only happens with point addresses.

\*~\*

Can only be put in as the first character of a field, and its purpose is to invert the pattern: in other words, it acts as a logical *\*NOT\**. For example, '2:332/~5??@fidonet.org' is equivalent to \*All nodes which are NOT in nets beginning with 5\*.

Note that '\*:\*/\*.\*@fidonet.org' designates all systems in fidonet.

The *\*wild\** format for UUCP and USENET addresses is a bit different. For UUCP addresses, if the pattern is made up by only one word (that is, it's the name of a particular machine), it is compared with the names of the known machines, from right to left.

For example, let us take an address, 'cbmehq!cbmita!ipisa!esmae', and a few pattern, pointing out which of them include the given address:

```
ipisa.UUCP      -> yes
cbmita.UUCP     -> yes
pippo.UUCP      -> no
cbm*            -> yes
cbmita!ipisa!*  -> yes
cbmehq!ipisa!*  -> no
*@ipisa.*       -> yes
```

As we will see, this is exactly what we need to route mail through different nodes. In this way, if you communicate with UUCP systems called 'ipisa' and 'gear', a message directed to a node which is accessible through 'ipisa' (as in our example) will be sent through 'ipisa', and all the others will be sent through 'gear'.

## 1.5 EMS\_english.guide/Configuration

## Configuration

\*\*\*\*\*

SWITCHes  
VARIABLEs

AKAs  
DOMAINs  
NODEs

AREAs  
LINKs

ARCHIVERs  
USERLIST

EXTERNALs

ROUTING

The configuration is made up by a set of ASCII files, located in the 'EMS:Config/' subdirectory. The format is very simple: a series of '<field name>=<field value>', spread over one or more lines. For each section in the configuration there is a set of so-called 'marker' keywords, which mark the beginning of a series of values that are related to one another; for example, in the configuration of the nodes your system usually communicates with,

```
ADDRESS=2:332/505@fidonet.org
```

means that the following values are related to node 2:332/505 of fidonet. A blank line is used to separate the settings for two different entities (variables, nodes, etc.).

It's not required to enter all the keywords available for each configuration file: all uninitialized fields will assume a reasonable default value, usually a null string or zero.

Besides, there are a few cases of keywords without values (see AREAs), and values without keywords (see LINKs, USERLIST).

'<field value>' is considered to end at the first blank space: if you need to include a space in it you have two ways to do it. You can enclose the whole value with quotes (''), or use the '\\ ' (backslash plus space) sequence instead of a space. Similar sequences (backslash plus character), must always be used if you need to insert quote symbols, or backslashes:

```
Due Parole      -> "Due Parole"
```

```
Due Parole      -> Due\ Parole
```

```
"Due" Parole    -> "\"Due\" Parole"
```

When you alter one of the configuration files, there is no warranty

that changes will be immediately used by the software; the configuration is read only once at startup. Before every change of configuration, then, run the 'EMS:rexx/ShutDown.ems' script to properly terminate execution.

The user is not the only one who can modify the configuration; the software itself can do it, as e.g. when a new area is created and configured during an import. The software always performs a backup copy of the file(s) it is going to modify: subsequent copies have their index incremented, as in ('<cfg>', '<cfg>.1', '<cfg>.2', etc.).

GCCHOST V4.0 users can rescue a large part of their existing configuration using the GCC2EMS utility. This program allows both to convert the old configuration files, and simply to display the data contained in them. It is possible to convert separately each of the three files that made up the configuration for GCChost ('GCC.cfg', 'AREAS.BBS' and 'AREAS.BBS.EXTRA'), but it's better to work simultaneously on all the files, because information is often spread between different files.

An advice: make a backup copy of the example configuration you found in the EMS archive, delete all files in 'EMS:config/' and launch GCC2EMS. Then check the result by hand, comparing the generated files with those given as example, with particular attention to externals and routing, which are the topics that underwent the most significative changes (you should really consider to put the example externals back after performing the conversion...).

## 1.6 EMS\_english.guide/SWITCHes

SWITCHes

=====

The file we are dealing with is 'EMS:Config/Switches'. It contains a series of pairs of names, followed by a status keyword, indicating which of the two is active. These are the keywords:

\*On\*=<name> \*marker\*

The name of the active status.

\*Off\*=<name>

The name of the inactive status.

\*Status\*=<boolean>

Indicates the status of the defined pair, and can assume 'ON' (1) or 'OFF' values. It must always be put after the pair, and not before it.

Configuration Example:

Off=NO\_RENUM\_AFTER\_IMPORT On=RENUM\_AFTER\_IMPORT Status=ON

Off=RENUM\_BY\_ARRIVAL\_TIME On=RENUM\_BY\_CREATION\_TIME Status=ON

Off=SEARCH\_ON\_TO

On=IGNORE\_TO

Status=ON

Blank lines, as we have already seen, are used to separate different parts of the file.

The system uses a particular set of pairs, listed below, to control its behaviour. All pairs are ordered so that the 'Off' item, which is the default if 'Status' is not specified, is in the first place.

NO\_RENUM\_AFTER\_IMPORT

RENUM\_AFTER\_IMPORT

If this is ON, it forces a reorganization of all areas that received new messages after an import. It is useful to avoid 'holes' in the message numbering, due for example to messages that have been deleted.

RENUM\_BY\_ARRIVAL\_TIME

RENUM\_BY\_CREATION\_TIME

Except for import, all renumbering operations are controlled by the status of this pair. The default, 'RENUM\_BY\_ARRIVAL\_TIME', sorts messages (or files) by import date, while 'RENUM\_BY\_CREATION\_TIME' sorts them by creation date.

SEARCH\_ALL

SEARCH\_NEW

The status of this pair affects the 'EMS\_Database\_Search' command, which scans the database(s) for particular messages. 'SEARCH\_NEW' only considers the ones which have just been imported.

IGNORE\_TO

SEARCH\_ON\_TO

IGNORE\_FROM

SEARCH\_ON\_FROM

IGNORE\_SUBJECT

SEARCH\_ON\_SUBJECT

IGNORE\_DATE

SEARCH\_ON\_DATE

IGNORE\_TEXT

SEARCH\_ON\_TEXT

When one of these pairs is ON, the corresponding field will be considered in a search operation. You may set only 'SEARCH\_ON\_TO' to scan the database for messages to you, or 'SEARCH\_ON\_TEXT' to locate messages with a particular word in their text.

USE\_KILL\_FLAG

IGNORE\_KILL\_FLAG

Normally, if a message is marked as 'KILLSSENT', it will be deleted immediately after being exported. With this switch, you can force EMS to ignore the 'KILLSSENT' flag.

USE\_SENT\_FLAG

IGNORE\_SENT\_FLAG

When you export an area, not all messages get processed. Each area maintains a number, called \*High Water Mark\*, corresponding to the last exported message. Messages numbered below or equal to the HWM will not, and cannot, be processed in an export; the opposite is not always true, and for a message higher than HWM to be exported,



two more conditions must be verified:

1. (only valid for areas not marked as 'MAIL'): the message must not have been already seen by the system we are exporting to. This can happen, for example, when that message originally came from that system; in this case, there's no way to export the message without altering it.
2. The 'SENT' flag, which is normally set in each processed message, must not be set. This is meant to avoid messages being processed twice, but can be overcome by 'IGNORE\_SENT\_FLAG'.

DO\_BACKUP

NO\_BACKUP

Controls the automatic backup of the inbound mail. Every time you perform an import, if this switch is set on DO\_BACKUP, all files are backed up in a directory set in the 'BACKUP\_DIR' variable before being processed. Please note that the backup is now done a file at a time, in order to reduce the amount of disk space needed.

NO\_KEEP\_MATRIX

KEEP\_MATRIX

Only useful for nodes. Allows you to keep matrix mail in transit, beside those addressed to your system.

AREAFIX\_INTERNAL

AREAFIX\_EXTERNAL

Enables the use of the EMS-specific AreaFix script.

KEEP\_AREAFIX

NO\_KEEP\_AREAFIX

Used by the AreaFix script to decide whether processed AreaFix requests should be deleted or not.

KILL\_DUPES

KEEP\_DUPES

When a message is recognized as a duplicate, the normal behaviour is to delete it. With KEEP\_DUPES, a copy of it gets kicked in the 'BAD\_MSGS' area. The duplicate-recognition scheme is based upon the identifying data \*^aEID:\*, \*^aMSGID:\* e \*Message-ID:\*. It is a very reliable method, and in normal conditions you can leave 'KILL\_DUPES' without worrying.

NO\_ROUTING

USE\_ROUTING

Useful for points with particular mailing needs, who can activate custom routing for their messages. The default is automatic routing; each message is exported to one of your bosses, provided that it does not have optional flags set (see below)

CRASH\_NORMAL

CRASH\_TO\_BOSS

When automatic routing is in effect, 'CRASH'-flavoured messages can be packed directly for the addressee's node, or be routed through one of your bosses. 'CRASH\_TO\_BOSS' is not used often, since if your boss is not willing to make a phone call for you, your message will be treated as a normal message.

---

HOLD\_NORMAL

HOLD\_TO\_BOSS

When automatic routing is in effect, 'HOLD'-flavoured messages can remain in your outbound directory, waiting to be picked up by the addressee, or being routed through one of your bosses. The 'HOLD\_TO\_BOSS' setting is more common, because a point seldom gets called, and in most cases it's not a trouble for the boss to keep a file waiting for someone to pick it up.

FILES\_STOP

FILES\_FORWARD

Allows or disallows file attach capability in 'MAIL' areas.

----- Footnotes -----

(1) Acceptable values for all <boolean> fields are: ON, OFF, TRUE, FALSE, YES, NO

## 1.7 EMS\_english.guide/VARIABLES

VARIABLES

=====

The file we are dealing with is 'EMS:Config/Variables'. It contains a series of name/value pairs, which are used to choose e.g. the editor for message entering, the directory to put backup copies in, etc. There are only two keywords:

\*Name\*=<name> \*marker\*

The name of the variable.

\*Value\*=<string>

Its value.

Configuration Example:

Name=TEMP\_DIR Value=T:

Name=LOG\_FILE Value=EMS:EMS.log

Name=LOG\_LEVEL Value=0

As with switches, there is a set of variables that have a particular meaning to EMS:

SYSOP\_NAME

The name of the system operator. For registered users, this is read from the keyfile.

LOG\_FILE

The name of the log file, i.e. the file in which EMS writes a summary of its actions. A log is always written, unless this variable is deleted.

## LOG\_LEVEL

This is the verbosity level for the log. Error reporting is always included, while ARexx commands never generate output. Therefore, only the tosser and scripts will have their behaviour affected.

At the lowest level, 0, there are messages such as:

```
Backing up <file> to <dir>
Export msg <num> ...
Message from <address> for ...
Post import msg <num> ...
Rescan msg <num> ...
```

The following level, 1, includes origin declarations: i.e, where do things come from:

```
Packet from <address> to <address>
Tick from <address> for area <name>
Import file <file> from <address>
```

At level 2 we find, let's say, statistical information:

```
Imported <num> msgs from <pkt>
Exporting area <name>
Post Importing area <name>
Rescanning area <name>
Arcing for <address> (<num> > <num> - <num>%)
Unarcng <archive>
```

At level 5 you only get very general information about what is happening in the system:

```
Importing <archive>
Importing <pkt>
Importing <tick>
```

Note that the log level is not limited between 0 and 5, but these are the only meaningful values for the system. If you do not want a report, except for error messages, you can set the log level to something quite high, for example 'LOG\_LEVEL=100'.

## TEMP\_DIR

This is the directory where mail archive are unpacked during an import, and a place where to put temporary files in general.

## BACKUP\_DIR

This is the directory where files are backed up before being processed in an import.

## UNARC

This is the default dearchiver's name. Unlike GCChost, this is not the complete command to be executed, but only the symbolic name that has been given to that particular (un)packer. For more information, see ARCHIVERS.

## ARC

---

As 'UNARC', but this is related to the packing process.

#### DB\_MSG\_NAME

This is the message database name to be used by default when creating new areas. See the script @ref ListDBnames.ems .

#### DB\_FILE\_NAME

This is the file database name to be used by default when creating new areas. See the script @ref ListDBnames.ems .

#### NEWAREAS\_MSG\_PATH

If EMS, during an import, finds a message for an area that doesn't exist, and the system that message comes from has been given the ability to create new areas, this variable is employed as a pattern to get the directory name that will be used for the new area's messages. '%n' or '%N' sequences will be filled in with the name of the area; '%d' or '%D' will become a random number, and EMS will take care that the resulting directory name is not already in use on the disk.

#### NEWAREAS\_FILE\_PATH

This variable has a purpose very similar to NEWAREAS\_MSG\_PATH, but it is related to file areas, i.e. areas marked as 'TICK' or 'FILE'.

#### NODELIST\_PATH

For FIDONET technology networks, this is the directory where the nodelist can be found. Such nodelist must be managed with TRAPLIST.

#### ORIGIN\_NAME

This is the default origin for messages entered in non-'MAIL' areas.

#### AREAFIX\_NAME

This is the name AreaFix messages for your system should be addressed to.

#### DUPECHECKING\_SIZE

Default size, expressed in messages, of the databases used for duplicate-checking data. You can set this value also on an area by area basis with the 'NumOfDuples' parameter (see AREAS).

#### MIN\_FREEMEM\_SIZE

When processing an area, EMS must read the contents of the messages in it. To do so, it uses, about 250 bytes for each message. It's easy to see that a large system, with dozens of areas and thousands of messages, needs a large amount of memory for an import, because it needs to read the data for all areas in which even a single message must be imported. If the software were given full freedom of memory allocation, this would soon bring to the exhaustion of the free memory pool, with errors both from EMS and from other programs (such as an archiver, launched by EMS at the end of the import). It is of basic importance to put a limitation to the program's voracity. It's never required to have data for all areas in memory at the same time; yet, this can prove to be really practical, because you don't have to wait when you switch from one area to another. You can go for a compromise with

---

'MIN\_FREEMEM\_SIZE', representing the minimum amount of memory that should be free in the system in a single block; if, at any given moment, EMS realizes that free memory is less than asked, it will begin to release memory taken up by the least used areas. It's not advisable to use a value less than 200000.

#### MAX\_PACKET\_SIZE

If your system processes a large amount of mail, you can take advantage of this value, which stands for the largest size that mail packets will have. Raising the number of packets enlarges the resulting archive by only a few bytes, but allows both you and the receiving system to process mail more safely (less chance of running out of memory and disk space). A good value is 200000.

There are other variables, whose values don't affect the software directly, but are needed by ARexx scripts:

#### SCRIPT\_REXX\_DIR

The directory in which ARexx scripts are put.

#### SCRIPT\_TEXT\_DIR

The directory where marked messages should be archived in text form.

#### SCRIPT\_MSG\_FILE

The complete name, including path, of the temporary file used to pass the message text to an external editor, then back into EMS.

#### SCRIPT\_EDITOR\_NAME

This is the command to be executed to launch the text editor. The name of the file to edit is appended by the scripts.

#### SCRIPT\_EDITOR\_ARGS

Some editors need arguments AFTER the file name; such arguments must be put in this variable.

#### SCRIPT\_DELETE\_NAME

This is the name of the command used to delete files.

## 1.8 EMS\_english.guide/AKAs

#### AKAs

====

The file we are dealing with is 'EMS:Config/AKAs'. It contains all the addresses of the system in the different nets. Here are the keywords:

<address> \*marker\*

An address, in FIDONET, UUCP or USENET format:

2:332/505@fidonet.org  
ipisa  
mother.gear.sublink.org

This is also an example of a field without keyword: every line not beginning with 'Fake' is considered to be a valid address, and will generate an error message if it is not. Registered users with a node licence can freely mix FIDONET node and point addresses; you can have some areas as a point, and others as a node, on the same system.

**\*Fake\*=** <fake net>

When communicating with old FIDONET software, you need to set the so-called **\*Fake Net\***. It is a number that will be used to send and receive mail to and from old-fashioned points: an address such as '332/505.3' will become '<fakenet>/3'.

Configuration example:

2:332/505@fidonet.org      Fake=22505

39:102/511.3@amiganet.ftn Fake=22511

mother.gear.sublink.org

## 1.9 EMS\_english.guide/DOMAINS

DOMAINS

=====

The file we are dealing with is 'EMS:Config/Domains'. It contains information about where to put outbound mail, and where to find inbound packets. The keywords are:

**\*Name\*=**<name> **\*marker\***

The name of the net, also called **\*Domain\***. It's important that the names of the domains be consistent with those used in your AKAs, because the tosser will extract the domain from the address of the addressee, and look for a matching outbound directory: if it cannot be found, it will abort. The matching process is different for FIDONET and UUCP addresses. In the first case, only the part of the domain on the left of the first dot will be considered: for example, 'fidonet.org', 'fidonet.org.earth' and 'fidonet' are considered equivalent. In case of an UUCP address the rightmost part will be taken into account; but since the case of more than one UUCP feeder is very unlikely, the name of the net will most probably be 'UUCP'. As an advice, try to get accustomed to only one form of writing a domain's name; don't type 'fidonet.org' here and 'fidonet' there. It does no harm, but it's indeed a bad habit.

**\*Inbound\*=**<inbound dir>

This is the directory where the inbound mail can be found.

**\*Outbound\*=**<outbound dir>

This is the directory where the outbound mail should be put.

**\*AltOutbound\*=**<secondary outbound dir>

Secondary directory where the outbound packets should be put. If set up, EMS moves here the mail packets, so to thin the main outbound on big systems, where you can find hundreds of files. Having less files in the main outbound means a smaller response time from the mailer.

**\*Type\*=<choice>**

This is the kind of mailer dealing with this network. The available settings are:

**\*Trapdoor\***

**\*Flow\***

**\*UUCICO\***

At the moment, the only not supported setting is 'Flow'. About 'UUCICO', if you use AMIGAUUCP it's necessary to add the line 'MungeCase N' into the 'UULIB:config file' file, otherwise EMS could not recognize mail packets.

Configuration Example:

Name=fidonet

Inbound=mail:inbound Outbound=mail:outbound Type=TrapDoor

Name=amiganet

Inbound=mail:inbound Outbound=mail:outbound Type=flow

## 1.10 EMS\_english.guide/NODEs

NODEs

=====

The file we are dealing with is 'EMS:Config/Nodes'. It contains the attributes of the systems we communicate with, such as passwords, levels, mail exchange format, etc. The keywords are:

**\*Address\*=<address> \*marker\***

This specifies the address of the system to which the following settings are related.

**\*Archiver\*=<archiver name>**

This is the symbolic name of the archiver used to send mail towards this system.

**\*PacketPWD\_in\*=<password>**

**\*PacketPWD\_out\*=<password>**

This is used to set up a packet password. The 'OUT' password will be put inside packets generated by you, the 'IN' password will be expected in packets coming from that particular node.

**\*PacketType\*=<type>**

This is the format for the outbound packets that will be generated.

**\*Fido\_2\***

**\*Fido\_2+\***

\*Fido\_2.2\*  
\*USENET\*  
    'USENET' is not currently implemented.

\*AreafixName\*=<name>  
    This is the name of the Areafix robot on the remote system.

\*AreafixPWD\_in\*=<password>  
\*AreafixPWD\_out\*=<password>  
    These passwords are expected/used for message to AreaFix from/for that particular node.

\*AreafixEchoList\*=<file>  
\*AreafixFileList\*=<file>  
    These are the names of two text files, containing the tag names of the areas on the remote system. When a system requests an area you don't have, and its level is high enough, these lists will be used to locate a node who has that area, and an areafix message will be automatically generated to link it.

\*AreafixNotify\*=<boolean>  
    Activate this if the remote system should receive a reply for each AreaFix request.

\*AreafixAlert\*=<boolean>  
    Activate this if you want the remote system to know about all actions taken by your own AreaFix. Useful for remote sysop points.

\*GroupName\*=<name> \*multi\*  
\*GroupLevel\*=<level>  
\*GroupFlags\*=<flags>  
    With these fields you can grant a privileged level to the remote system. 'GroupName' is the name of the group the system belongs to (see AREAs), 'GroupLevel' is the level of that system within the group, and 'GroupFlags' (1) specify what the system can do inside the group:

\*MSG\_read\*  
    The system can read messages.

\*MSG\_write\*  
    The system can write messages.

\*FILE\_read\*  
    The system can receive files.

\*FILE\_write\*  
    The system can send files.

Groups are useful to separate the areas belonging to different nets, and have the sysop areas at a higher level than normal ones; this way, a node which has a high level in the 'fidonet' group will have access to the fidonet sysop conferences, but not to similar areas in the 'amiganet' group. Each system can belong to any number of groups, with a different level and set of flags for each. Please note that:

---



```
GroupName=fidonet GroupLevel=10 GroupLevel=11 GroupFlags="MSG_read"
```

is equivalent to:

```
GroupName=fidonet GroupLevel=11 GroupFlags="MSG_read"
```

while:

```
GroupName=fidonet GroupName=amiganet  
GroupLevel=11 GroupFlags="MSG_read"
```

is equivalent to:

```
GroupName=fidonet GroupLevel=0 GroupFlags=""  
GroupName=amiganet GroupLevel=11 GroupFlags="MSG_read"
```

\*SeenPathDim\*=<choice>

This field is used to filter addresses that will be listed in the 'SeenBy' lines in messages exported to this system, and the way they are written too:

\*Any\*

All FIDONET, UUCP and USENET addresses/formats.

\*Fido\_2D\*

\*Fido\_3D\*

FIDONET addresses only, same zone and net.

\*Fido\_4D\*

FIDONET addresses only, same net.

\*Fido\_5D\*

FIDONET addresses only.

\*UUCP\*

UUCP or USENET addresses only.

\*Flavor\*=<choice>

This selects the standard way to communicate with a system:

\*NORMAL\*

\*DIRECT\*

\*HOLD\*

\*CRASH\*

\*VIRTUAL\*

All non-'MAIL' messages are packed in this flavour. If a system is marked as 'VIRTUAL', no packets or flow files will ever be generated for it.

\*CanCrash\*=<boolean>

When the tosser meets a message marked as 'CRASH', it looks at this field for the system which originated the message, NOT for the one we received it from. If this field is FALSE or the system is not found in our list, the message is changed to 'NORMAL'. This option is a fundamental protection against unwanted (and expensive) uses of your system as a worldwide caller.

---

\*CanCreateAreas\*=<boolean>

This system can create new areas automatically.

\*PackSmallFiles\*=<boolean>

It's possible to send to this system file attached to messages or TIC in a compressed way, like mail packets. See MIN\_UNPACKED\_SIZE.

\*AutoLink\*=<boolean>

Not implemented yet. It should be used to have every new area automatically linked to this system, when the group settings allow it.

Configuration Example:

```
Address=2:332/505@fidonet.org
Archiver=lha
PacketType=Fido_2_2      PacketPWD_in=aaa  PacketPWD_out=bbb
AreafixName=echorobot    AreafixPWD_in=aaa  AreafixPWD_out=bbb
AreafixNotify=NO        AreafixAlert=NO
SeenPathDim=Fido_5      Flavor=NORMAL
CanCrash=NO             CanCreateAreas=YES  AutoLink=NO
GroupName=fidonet       GroupLevel=10
GroupFlags=MSG_read
GroupName=sysop_fidonet GroupLevel=1
GroupFlags="MSG_read MSG_write FILE_read FILE_write"
```

```
Address=2:333/107.3@fidonet.org
Archiver=lha             PacketType=Fido_2
AreafixNotify=NO        AreafixAlert=NO
SeenPathDim=Fido_2D     Flavor=NORMAL
CanCrash=NO             CanCreateAreas=YES  AutoLink=NO
```

----- Footnotes -----

(1) This form of protection has yet to be implemented.

## 1.11 EMS\_english.guide/AREAs

AREAs

=====

The file we are dealing with is 'EMS:Config/Areas'. It contains information about the areas in your system. These are the keywords:

\*Area\* \*marker\*

Used to mark the beginning of a new area definition.

\*Name\*=<name> \*multi\*

These are the names by which this area is known. Useful for areas spread across different domains, that takes different names on different networks.

\*Address\*=<address>

This is the main address used when processing this area.

\*Type\*=<choice>

Kind of area, one of the following:

\*Mail\*

Area reserved to person-to-person messages and files.

\*Echo\*

Area reserved to messages that are spread among all linked systems.

\*File\*

Like 'Echo', but you can also post files.

\*Tick\*

File-only area.

All kinds of area are implemented in the current version.

\*MsgPath\*=<path>

This is the main path used for the message database. Data related to messages are always put here.

\*MsgAltPath\*=<alternate path>

This is the secondary path for the message database: it's used to store files attached to messages. If this path is not specified files are put in 'MsgPath', unless a file database has been defined.

\*MsgDBname\*=<type>

This is the name of the kind of database to be used for messages. To find out what databases are available, you can use the script 'EMS:rexx/ListDBnames.ems' (1).

\*MsgDescription\*=<string>

The description string for this area.

\*FilePath\*=<path>

The main path for the file database; it contains the descriptions, lengths, etc.

\*FileAltPath\*=<alternate path>

Secondary path for the file database, used to store files which are put in the database. If this path is not specified, files are stored in 'FilePath'.

\*FileDBname\*=<type>

This is the name of the kind of database to be used for files. To find out what databases are available, you can use the script 'EMS:rexx/ListDBnames.ems' (2).

\*FileDescription\*=<string>

The description string for this area.

\*GroupName\*=<name>

The group this area belongs to.

---

\*GroupLevel\*=<level>

The access level required for this area within its group.

\*MaintMode\*=<choice>

\*MaintLimit\*=<num>

These fields control how maintenance operations are performed:

\*ByNum\*

Limits the number of messages to <num>.

\*ByDay\*

Limits the number of messages by deleting those more than <num> days old.

\*ByNumRenum\*

Like ByNum, with added area renumbering.

\*ByDayRenum\*

Like ByDay, with added area renumbering.

The maintenance is actually performed by the command 'EMS\_Database\_AutoMaint'. If 'MaintLimit' is set to 0, the command will not affect this area.

\*BBS\_msg\_name\*=<BBS name>

\*BBS\_msg\_number\*=<number>

Type of BBS controlling the message area, and ID #. Not Implemented Yet.

\*BBS\_file\_name\*=<BBS name>

\*BBS\_file\_number\*=<number>

Tipo del BBS che controlla l'area file e numero identificativo. Non implementato.

\*Language\*=<string>

Language. Not Implemented Yet.

\*IsPrivate\*=<boolean>

This must be activated if you want to allow private messages in a non-MAIL area.

\*IsLocal\*=<boolean>

This must be activated if you don't want an area to be ever exported.

\*TwoPassImport\*=<boolean>

Set this to activate two-pass import. The ARexx command 'EMS\_Tosser\_Import' will import messages as usual, but will stop before re-exporting them towards other systems. The command 'EMS\_Tosser\_PostImport' will take care of re-exporting. Useful to implement a filter or a msgtracker.

\*PassThrough\*=<boolean>

Set this if you don't want the messages and files of this area to be stored in your local message/file base.

\*KeepDupes\*=<boolean>

---

If this option is active, the system keeps track of meaningful data needed for duplicate checking. Active as default.

\*KeepStats\*=<boolean>

Not Implemented Yet.

\*NumOfDupes\*=<number>

If this is different from 0, it allows you to set the maximum size for the dupe-database. If it's 0 or missing, the value of the 'DUPECHECKING\_SIZE' variable will be used.

\*UnsafeTick\*=<boolean>

The standard behaviour of a TICK area is to check the CRC of all the imported files and to consider bad any '.tic' file without the CRC field. If activated, this flag allows the import of those tics that don't have any CRC data.

#### Configuration Example:

```
Area Name=MAIL_DIR
Address=2:332/505@fidonet.org   Type=Mail
MsgPath=mail:mail_dir          MsgDBname=fido_db_msg
MaintMode=ByNum                 MaintLimit=30
IsPrivate=YES                  IsLocal=NO
TwoPassImport=NO PassThrough=NO KeepDupes=NO KeepStats=NO
```

```
Area Name=FirstName Name=OtherName
Address=2:333/107@fidonet.org Type=File
MsgPath=mail:test              MsgAltPath=mail:test_Alt
MsgDBname=quick_db_msg         MsgDescription="...esempio..."
GroupName=fidonet              GroupLevel=2
MaintMode=ByDayRenum           MaintLimit=7 Language=Italiano
BBS_msg_name=DLG               BBS_msg_number=103
IsPrivate=YES                  IsLocal=YES
TwoPassImport=NO               PassThrough=NO
KeepDupes=YES                  KeepStats=NO
```

```
Area Name=NODEDIFF
Address=2:333/107@fidonet.org   Type=Tick
MsgPath=mail:new_msg/NODEDIFF   MsgDBname=quick_db_msg
FilePath=mail:new_file/NODEDIFF FileDBname=DLG_db_file
MaintMode=ByNum
IsPrivate=NO                   IsLocal=NO
TwoPassImport=NO               PassThrough=NO
KeepDupes=YES                  KeepStats=NO
```

```
Area Name=BAD_MSGS
Address=2:333/107@fidonet.org   Type=Echo
MsgPath=mail:BAD_MSGS          MsgDBname=fido_db_msg
MaintMode=ByNum
IsPrivate=YES                  IsLocal=YES
TwoPassImport=NO               PassThrough=NO
KeepDupes=NO                   KeepStats=NO
```

----- Footnotes -----

(1) \*fido\_db\_msg\* and \*quick\_db\_msg\* in the current release.

- (2) \*DLG\_db\_file\* only in the current release.

## 1.12 EMS\_english.guide/LINKs

### LINKs

=====

The file we are dealing with is 'EMS:Config/Links'. It contains the list of the systems attached to non-MAIL areas. These are the keywords that can appear in it:

\*Name\*=<name> \*marker\*

This is the name of an area. It is important to remember that an area may have more than one name, but a system always sees it with the name by which it first linked the area.

<address> \*multi\*

This is the address of a system that will have access to this area, to read and write files and messages. In normal situations, you should not put your own AKAs in this list: this is only necessary for particular setups, such as zonegates. Anyway, the tosser will never generate a packet addressed to itself.

\*Disabled\*=<address> \*multi\*

This is the address of a system that is attached to the area, but is not active at the moment and doesn't want to receive messages. The system will automatically switch to the active state when it first writes a message in this area. Useful in AreaFix operation.

Configuration Example:

```
Name=test
2:333/107@fidonet.org 2:333/107.3@fidonet.org
2:333/111@fidonet.org
```

```
Name=NETSYSOP.333
Disabled=2:333/111@fidonet.org
```

```
Name=GAMES.ITA
2:333/110@fidonet.org
```

```
Name=MAC.ITA
2:333/107.3@fidonet.org 2:333/111@fidonet.org
2:332/111@fidonet.org 2:331/111@fidonet.org
```

## 1.13 EMS\_english.guide/ARCHIVERS

### ARCHIVERS

=====

---

The file we are dealing with is 'EMS:Config/Archivers'. It includes information about the archiving programs used by the system. It is very important to correctly set the 'Arc' and 'Unarc' fields, otherwise you will not be able to import or export mail. These are the keywords you can put in this configuration file:

\*Name\*=<name> \*marker\*

This is the symbolic name associated to an archiver. All the rest of the system will reference the archiver by this name only.

\*Arc\*=<arc>

This is the command to be executed to pack mail. The tosser will automatically append the name of the archive and the name of the file to compress, in this order.

\*Unarc\*=<unarc>

This is the command to be executed to unpack mail. The tosser will automatically append the name of the archive to process.

\*ID\*=<id string>

\*IDpos\*=<id pos>

These two fields are used during import, to identify the kind of archiver that created a file. The identification is based on a particular sequence of characters in the first bytes of the file. 'IDpos' is the number of characters to skip at the beginning of the file; 'ID' is the matching sequence of bytes. If this sequence must include unprintable codes, as is the case with ARC, these should be entered in the hexadecimal form '\0xx': for example, decimal 14 would become '\00E'.

Configuration Example:

Name=LHA

Arc="Archivers:lha140 -q a" Unarc="Archivers:lha140 -q e"

ID=-lh IDpos=2

Name=ZIP

Arc=archivers:zip Unarc=Archivers:unzip

ID=PK

Name=ZOO

Arc="Archivers:zoo a" Unarc="Archivers:zoo x"

ID=ZOO

Name=ARC

ARC="archivers:arc a" UNARC="archivers:arc x"

ID="\01A\008"

## 1.14 EMS\_english.guide/USERLIST

USERLIST

=====

The file we are dealing with is 'EMS:Config/Userlist'. It contains a list of user names, both local and external to your system, complete with address, nickname and comments. Its main purpose is to make message entering easier, but it is also used for address remapping. When a message addressed to your system or to one of your points is tossed, the userlist is scanned for the name of the addressee. If it is found, the original address of destination is replaced with the one taken from the userlist, and the message is re-exported towards its correct destination. Now remapping is safe also for users with more than one address, since the tosser picks the address which is most similar to the original (and wrong) one. These are the keywords that can be included in this file:

\*Name\*=<name> \*marker\*  
Name of the user.

\*Nick\*=<nick name>  
The nickname of the user. This can be used when entering a message: the system will replace it with the correct full name.

\*Note\*=<note text>  
A short comment.

<address> \*multi\*  
One or more addresses at which the user can be found.

Configuration Example:

Name="Mario Mure"  
2:332/505@fidonet.org

Name="Maurizio Fabiani" Nick=Maui  
2:335/602@fidonet.org

Name="Robert Hofmann"  
2:2400/24@fidonet.org 2:247/737@fidonet.org  
2:2400/737@fidonet.org

Name="Magnus Thelander"  
2:255/35.18@fidonet.org 2:203/602.18@fidonet.org

## 1.15 EMS\_english.guide/EXTERNALs

EXTERNALs  
=====

The file we are dealing with is 'EMS:Config/Externals'. It contains the definitions for the user menu in EMS\_EDITOR, and can include these keywords:

\*Title\*=<title> \*marker\*  
Text to be shown in the menu.

\*ShortCut\*=<short-cut key>

---



Shortcut key associated with this command in the menu, for quick selection.

**\*IsCommand\***=<boolean>

Set this if the action associated with this menu item is an executable command; otherwise, it is assumed to be an ARexx script.

**\*Command\***=<command>

This is the command or script which is executed when the menu item is selected. For scripts, you don't always need to specify a full path, since by default they are searched for in 'SCRIPT\_REXX\_DIR'.

Among the parameters passed to the command, you can insert a few modifiers regarding the editor's status:

'%s'

'%S'

Number of the current editor session.

'%#'

Number of the current message.

'%a'

'%A'

Name of the current area.

'%p'

'%P'

Main path of the current area.

'%d'

'%D'

Type of database currently displayed: can be 'MSG' or 'FILE'.

**\*ScreePos\***=<choice>

Only useful when using EMS\_EDITOR with the 'CUSTOMSCREEN' option, to control the depth arrangement of the editor's screen:

**\*DoNothing\***

Does absolutely nothing.

**\*Back\***

Moves the screen behind BEFORE executing the command.

**\*Front\***

Takes the editor screen in front AFTER the command has terminated the execution.

**\*Toggle\***

Equivalent to Back + Front.

Configuration Example:

```
Title="Edit A Msg" ShortCut=E
Command="EditMsg.ems %s %a %#"
ScreenPos=Toggle
```

```
Title="View Log" ShortCut=L IsCommand=TRUE
Command="editors:ced/ed point:mail/trapdoor.log -sticky"
```

## 1.16 EMS\_english.guide/ROUTING

ROUTING  
=====

The file we are dealing with is 'EMS:Config/Routing'. It contains the informations needed to route netmails toward the desired destinations.

Routing in EMS is different from that implemented in 'GCCHost', it has been in some way simplified and made more automatical.

Link in 'GCCHost' points don't have any need of routing, because they send all their mail to their boss by default. But under strange situations points could feel the need for manual routing, so see SWITCHes.

EMS first checks whether a message is addressed to one of your points. In this case, routing is completed by sending that message to the point, as 'HOLD' or with the flavor you specified for that point.

Then, 'CRASH' permissions are checked for and applied to messages. Since allowing everybody to send 'CRASH' messages can be painfully expensive, and controlling this privilege through routing can make it less clear, EMS adopts a very radical position: nobody can 'CRASH' messages, unless explicitly authorized to do so. In other words, only nodes listed in the 'EMS:Config/Nodes' file, with 'CanCrash=TRUE' are enabled to crash messages; in all mail coming from other nodes, the 'CRASH' flag is stripped and messages are degraded to 'NORMAL'.

After this, EMS executes the routing commands specified in 'EMS:Config/Routing', which can be of four kinds:

```
*Route&Send*
*Route*
*Send*
*Convert*
```

All commands are executed on the same basis, i.e. only on messages whose \*destination\* address and flavor match those specified in the 'From' and 'FromFlavor' fields. Remember that they are not necessarily the same as in the original message header, since both address and flavor can change due to the execution of a command.

For example, '2:332/505.3@fidonet.org (NORMAL)' after the execution of

```
Action=Route To=2:332/500@fidonet.org ToFlavor=HOLD FromFlavor=NORMAL
From=2:332/50?.*@fidonet.org
```

will become 'HOLD' and addressed to '2:332/500@fidonet.org'. Always remember that these destination addresses and flavors (stored in the

---

packet header) only affect the node messages will be packed for, and not the ultimate address of destination of a message.

A message for '2:332/405.3@fidonet.org (NORMAL)', would not be affected by the above command, since the destination address doesn't match the one specified in 'FromAddress';

A message for '2:332/505.3@fidonet.org (HOLD)' would not be affected by the above command, since the flavor is different from the one specified in 'FromFlavor'.

The simplest command of all is 'Convert', that modifies only the flavor of a message. 'Route' and 'Route&Send' can also modify the destination address.

'Route' and 'Route&Send' commands are very important, because they terminate routing for a message which has been addressed to the right destination. Shouldn't we terminate routing, in such cases, the message could be altered by following commands, and be packed for an improper destination.

After the execution of all commands in the routing sequence, EMS performs two more operations. If the resulting destination system is a point, and it is not listed in 'EMS:Config/Nodes', the message is automatically routed through his boss.

Finally, EMS checks if the resulting destination system is known and has an archiver set in 'EMS:Config/Nodes'; in that case, the packet is compressed according to the preferences that have been set. However USENET mails are never compressed.

Back to the configuration file. the keywords that can be included in this file are:

\*Action\*=<choice> \*marker\*

Controls the action to perform, that could be:

'Route&Send'  
'Route'  
'Send'  
'Convert'

\*To\*=<address>

Address to use together the commands 'Route&Send' and 'Route'.

\*ToFlavor\*=<choice>

The new flavor that will be used for the message, that could be:

'NORMAL'  
'CRASH'  
'HOLD'  
'DIRECT'

\*From\*=<wild address> \*multi\*

A list of patterns that must be satisfied in order to execute the command in 'Action' (see Address Format).

\*FromFlavor\*=<choice>

Kind of flavor that the message must own in order to execute the

command. Both conditions, the one on the address and this one, should be satisfied:

```
'ALL'
'NORMAL'
'CRASH'
'HOLD'
'DIRECT'
```

Configuration Example:

```
Action=Send ToFlavor=ALL FromFlavor=CRASH
From=*/*/*. *@fidonet.org
```

```
Action=Route&Send To=2:332/607@fidonet.org
ToFlavor=HOLD FromFlavor=NORMAL
From=2:332/60?. *@fidonet.org
```

```
Action=Route&Send To=2:332/500@fidonet.org
ToFlavor=DIRECT FromFlavor=ALL
From=2:*/400. *@fidonet.org From=2:332/503.1?@fidonet.org
```

```
Action=Route&Send To=2:332/504@fidonet.org
ToFlavor=NORMAL FromFlavor=ALL
From=*/*/*. *@fidonet.org
```

## 1.17 EMS\_english.guide/EMS\_config

EMS\_config  
\*\*\*\*\*

This chapter is still under translation. Please refer to the italian one.

## 1.18 EMS\_english.guide/EMS\_editor

EMS\_editor  
\*\*\*\*\*

This chapter is still under translation. Please refer to the italian one.

## 1.19 EMS\_english.guide/ARexx Commands

ARexx Commands  
\*\*\*\*\*

All ARexx commands are included in EMS\_REXX.LIBRARY, which should be

opened at the beginning of each EMS script with the following instructions:

```

signal on error
signal on syntax

if( ~show( 'l', "ems_rexx.library" ) ) then
do
  if( ~addlib( "ems_rexx.library", 0, -30, 0 ) )then
  do
    say "Could not open ems_rexx.library"
    exit 10
  end
end
end

```

To properly manage variables, switches and local messages, EMS stores a few data for each script that asks for its service. Unfortunately, there's no way for EMS to know when a script ends, so it cannot automatically free the memory it allocated for that script. Therefore, you must do it manually (see EMS\_FreeScriptData), these instructions at the end of your script:

```

call EMS_FreeScriptData()
return 0

```

Special care should be taken for the case of a premature and unexpected script termination due to an error; your script should include this error-trapping routine:

```

error:
syntax:

error_text = EMS_LastError()

if error_text = '' then error_text = rc ErrorText( rc )

say '| ***BREAK: error at' sigl error_text

call EMS_FreeScriptData()
exit rc

```

General  
 Lists  
 Variable Information  
 Switch Manipulation  
 Node Information  
 Area Information  
 Database Information  
 Checking for Existence  
 Tosser Control  
 Database Control  
 Userlist Handling  
 Flow File Handling  
 Message-File Handling  
 Areafix  
 Custom Configurations

---

## Requesters Stem Manipulation

In the command descriptions a few conventions apply:

- \* For all commands, the arguments and (possibly) a result are listed. When a command returns a result, you should use this syntax:

```
<result> = <comando>( <argomento>, ... , <argomento> )
```

or, in case you do not care at all about the result,

```
CALL <comando>( <argomento>, ... , <argomento> )
```

- \* If an argument is enclosed in '[''] brackets, it is optional.
- \* If an argument is not enclosed by '<>', the only possible values for that argument are the different strings that, separated by a slash ('/'), make up its name. For example, 'MSG/FILE' can be either 'MSG' or 'FILE'.
- \* If an argument includes the ''var name'' or ''stem'' specification, it means it is an indirect argument; you should not pass EMS its value, but rather the name of a variable or a stem that holds it.
- \* If the argument's name is related to something plural, it means you can put in several values, separated by a space. If the argument is an area name, you may also use standard AmigaDOS wildcards to select a bunch of areas at a time.

## 1.20 EMS\_english.guide/General

### General =====

```
EMS_Help
EMS_LastError
EMS_FreeScriptData
EMS_ShutDown
EMS_Version
EMS_Cfg_Read
EMS_Cfg_Write
EMS_Log_Close
EMS_Log_Level
EMS_Log_Print
EMS_FullAddress
EMS_Address_IsFIDO
EMS_Address_IsPOINT
EMS_Address_IsUUCP
EMS_Address_IsUSENET
EMS_Address_GetDomain
```

---

```
EMS_Address_Compare
EMS_Address_Compare_Wild
```

## 1.21 EMS\_english.guide/EMS\_Help

```
EMS_Help
-----
```

Arguments: [<command name pattern>]

## 1.22 EMS\_english.guide/EMS\_LastError

```
EMS_LastError
-----
```

Result : <string>

## 1.23 EMS\_english.guide/EMS\_FreeScriptData

```
EMS_FreeScriptData
-----
```

Arguments: [ALL]

## 1.24 EMS\_english.guide/EMS\_ShutDown

```
EMS_ShutDown
-----
```

## 1.25 EMS\_english.guide/EMS\_Version

```
EMS_Version
-----
```

Arguments: [<version var name>], [<registration number var name>]

---

## 1.26 EMS\_english.guide/EMS\_Cfg\_Read

EMS\_Cfg\_Read

-----

Arguments: <part name>

## 1.27 EMS\_english.guide/EMS\_Cfg\_Write

EMS\_Cfg\_Write

-----

Arguments: <part name>, [FORCE]

## 1.28 EMS\_english.guide/EMS\_Log\_Close

EMS\_Log\_Close

-----

## 1.29 EMS\_english.guide/EMS\_Log\_Level

EMS\_Log\_Level

-----

Arguments: [<new level>]

Result : <old level>

## 1.30 EMS\_english.guide/EMS\_Log\_Print

EMS\_Log\_Print

-----

Arguments: <level>, <string to print>, [TIME]

## 1.31 EMS\_english.guide/EMS\_FullAddress



EMS\_FullAddress

-----

Arguments: <area name>, <partial address>

Result : <result>

### 1.32 EMS\_english.guide/EMS\_Address\_IsFIDO

EMS\_Address\_IsFIDO

-----

Arguments: <address>

Result : <result>

### 1.33 EMS\_english.guide/EMS\_Address\_IsPOINT

EMS\_Address\_IsPOINT

-----

Arguments: <address>

Result : <result>

### 1.34 EMS\_english.guide/EMS\_Address\_IsUUCP

EMS\_Address\_IsUUCP

-----

Arguments: <address>

Result : <result>

### 1.35 EMS\_english.guide/EMS\_Address\_IsUSENET

EMS\_Address\_IsUSENET

-----

Arguments: <address>

Result : <result>

---

### 1.36 EMS\_english.guide/EMS\_Address\_GetDomain

EMS\_Address\_GetDomain  
-----

Arguments: <address>  
Result : <domain>

### 1.37 EMS\_english.guide/EMS\_Address\_Compare

EMS\_Address\_Compare  
-----

Arguments: <address>, <address to compare>  
Result : <result> [FALSE|TRUE]

### 1.38 EMS\_english.guide/EMS\_Address\_Compare\_Wild

EMS\_Address\_Compare\_Wild  
-----

Arguments: <address>, <wild address to compare>  
Result : <result> [FALSE|TRUE]

### 1.39 EMS\_english.guide/Lists

Lists  
=====

EMS\_Akas  
EMS\_Domains  
EMS\_Nodes  
EMS\_Areas  
EMS\_Areas\_Imported  
EMS\_Areas\_New  
EMS\_Archivers

### 1.40 EMS\_english.guide/EMS\_Akas

EMS\_Akas

-----

Arguments: <stem name>, [<domain filter>]

## 1.41 EMS\_english.guide/EMS\_Domains

EMS\_Domains

-----

Arguments: <stem name>

## 1.42 EMS\_english.guide/EMS\_Nodes

EMS\_Nodes

-----

Arguments: <stem name>

## 1.43 EMS\_english.guide/EMS\_Areas

EMS\_Areas

-----

Arguments: <stem name>, [SORT]

## 1.44 EMS\_english.guide/EMS\_Areas\_Imported

EMS\_Areas\_Imported

-----

Arguments: <stem name>, [SORT]

## 1.45 EMS\_english.guide/EMS\_Areas\_New

EMS\_Areas\_New

-----

Arguments: <stem name>, [SORT]

---

## 1.46 EMS\_english.guide/EMS\_Archivers

EMS\_Archivers  
-----

Arguments: <stem name>

## 1.47 EMS\_english.guide/Variable Information

Variable Information  
=====

EMS\_Var\_Local  
EMS\_Var\_Global  
EMS\_Var\_Delete

## 1.48 EMS\_english.guide/EMS\_Var\_Local

EMS\_Var\_Local  
-----

Arguments: <var name>, [<new value>]  
Result : <value>

## 1.49 EMS\_english.guide/EMS\_Var\_Global

EMS\_Var\_Global  
-----

Arguments: <var name>, [<new value>]  
Result : <value>

## 1.50 EMS\_english.guide/EMS\_Var\_Delete

EMS\_Var\_Delete  
-----

Arguments: <var name>

---

## 1.51 EMS\_english.guide/Switch Manipulation

Switch Manipulation  
=====

EMS\_Switch\_Local  
EMS\_Switch\_Global  
EMS\_Switch\_Delete

## 1.52 EMS\_english.guide/EMS\_Switch\_Local

EMS\_Switch\_Local  
-----

Arguments: <switch name>, [<new status>]  
Result : <status>

## 1.53 EMS\_english.guide/EMS\_Switch\_Global

EMS\_Switch\_Global  
-----

Arguments: <switch name>, [<new status>]  
Result : <status>

## 1.54 EMS\_english.guide/EMS\_Switch\_Delete

EMS\_Switch\_Delete  
-----

Arguments: <switch name>

## 1.55 EMS\_english.guide/Node Information

Node Information  
=====

EMS\_Node\_Archiver  
EMS\_Node\_Packet\_Pwd\_In  
EMS\_Node\_Packet\_Pwd\_Out  
EMS\_Node\_Packet\_Type

---

```
EMS_Node_Areafix_Name
EMS_Node_Areafix_EchoList
EMS_Node_Areafix_FileList
EMS_Node_Areafix_Pwd_In
EMS_Node_Areafix_Pwd_Out
EMS_Node_Areafix_Notify
EMS_Node_Areafix_Alert
EMS_Node_Addresssing
EMS_Node_Flavor
EMS_Node_CanCrash
EMS_Node_CanCreateAreas
EMS_Node_PackSmallFiles
EMS_Node_AutoLink
EMS_Node_Groups_Get
EMS_Node_Groups_Set
EMS_Node_Delete
```

## 1.56 EMS\_english.guide/EMS\_Node\_Archiver

```
EMS_Node_Archiver
-----
```

```
Arguments: <node address>, [<new name>]
Result    : <name>
```

## 1.57 EMS\_english.guide/EMS\_Node\_Packet\_Pwd\_In

```
EMS_Node_Packet_Pwd_In
-----
```

```
Arguments: <node address>, [<new password>]
Result    : <password>
```

## 1.58 EMS\_english.guide/EMS\_Node\_Packet\_Pwd\_Out

```
EMS_Node_Packet_Pwd_Out
-----
```

```
Arguments: <node address>, [<new password>]
Result    : <password>
```

## 1.59 EMS\_english.guide/EMS\_Node\_Packet\_Type

---

EMS\_Node\_Packet\_Type

-----

Arguments: <node address>, [<new choice>]

Result : <choice>

## 1.60 EMS\_english.guide/EMS\_Node\_Areafix\_Name

EMS\_Node\_Areafix\_Name

-----

Arguments: <node address>, [<new name>]

Result : <name>

## 1.61 EMS\_english.guide/EMS\_Node\_Areafix\_EchoList

EMS\_Node\_Areafix\_EchoList

-----

Arguments: <node address>, [<new file>]

Result : <file>

## 1.62 EMS\_english.guide/EMS\_Node\_Areafix\_FileList

EMS\_Node\_Areafix\_FileList

-----

Arguments: <node address>, [<new file>]

Result : <file>

## 1.63 EMS\_english.guide/EMS\_Node\_Areafix\_Pwd\_In

EMS\_Node\_Areafix\_Pwd\_In

-----

Arguments: <node address>, [<new password>]

Result : <password>

---

## 1.64 EMS\_english.guide/EMS\_Node\_Areafix\_Pwd\_Out

EMS\_Node\_Areafix\_Pwd\_Out  
-----

Arguments: <node address>, [<new password>]  
Result : <password>

## 1.65 EMS\_english.guide/EMS\_Node\_Areafix\_Notify

EMS\_Node\_Areafix\_Notify  
-----

Arguments: <node address>, [<new bool>]  
Result : <bool>

## 1.66 EMS\_english.guide/EMS\_Node\_Areafix\_Alert

EMS\_Node\_Areafix\_Alert  
-----

Arguments: <node address>, [<new bool>]  
Result : <bool>

## 1.67 EMS\_english.guide/EMS\_Node\_Addresssing

EMS\_Node\_Addresssing  
-----

Arguments: <node address>, [<new choice>]  
Result : <choice>

## 1.68 EMS\_english.guide/EMS\_Node\_Flavor

EMS\_Node\_Flavor  
-----

Arguments: <node address>, [<new choice>]  
Result : <choice>

---



## 1.69 EMS\_english.guide/EMS\_Node\_CanCrash

EMS\_Node\_CanCrash

-----

Arguments: <node address>, [<new bool>]

Result : <bool>

## 1.70 EMS\_english.guide/EMS\_Node\_CanCreateAreas

EMS\_Node\_CanCreateAreas

-----

Arguments: <node address>, [<new bool>]

Result : <bool>

## 1.71 EMS\_english.guide/EMS\_Node\_PackSmallFiles

EMS\_Node\_PackSmallFiles

-----

Arguments: <node address>, [<new bool>]

Result : <bool>

## 1.72 EMS\_english.guide/EMS\_Node\_AutoLink

EMS\_Node\_AutoLink

-----

Arguments: <node address>, [<new bool>]

Result : <bool>

## 1.73 EMS\_english.guide/EMS\_Node\_Groups\_Get

EMS\_Node\_Groups\_Get

-----

Arguments: <node address>, <stem name>

---

## 1.74 EMS\_english.guide/EMS\_Node\_Groups\_Set

EMS\_Node\_Groups\_Set  
-----

Arguments: <node address>, <stem name>

## 1.75 EMS\_english.guide/EMS\_Node\_Delete

EMS\_Node\_Delete  
-----

Arguments: <node address>

## 1.76 EMS\_english.guide/Area Information

Area Information  
=====

EMS\_Area\_Address  
EMS\_Area\_Type  
EMS\_Area\_Msg\_Path  
EMS\_Area\_Msg\_AltPath  
EMS\_Area\_Msg\_DBname  
EMS\_Area\_Msg\_Description  
EMS\_Area\_File\_Path  
EMS\_Area\_File\_AltPath  
EMS\_Area\_File\_DBname  
EMS\_Area\_File\_Description  
EMS\_Area\_Group\_Name  
EMS\_Area\_Group\_Level  
EMS\_Area\_Maint\_Mode  
EMS\_Area\_Maint\_Limit  
EMS\_Area\_BBS\_Msg\_Name  
EMS\_Area\_BBS\_Msg\_Number  
EMS\_Area\_BBS\_File\_Name  
EMS\_Area\_BBS\_File\_Number  
EMS\_Area\_Language  
EMS\_Area\_IsPrivate  
EMS\_Area\_IsLocal  
EMS\_Area\_TwoPassImport  
EMS\_Area\_PassThrough  
EMS\_Area\_KeepDups  
EMS\_Area\_KeepStats  
EMS\_Area\_UnsafeTick  
EMS\_Area\_NumOfDups  
EMS\_Area\_Create  
EMS\_Area\_Delete  
EMS\_Area\_NameFromPath

---

```
EMS_Area_NameFromNumber
EMS_Area_FullFileName
EMS_Area_HiMark
```

## 1.77 EMS\_english.guide/EMS\_Area\_Address

```
EMS_Area_Address
-----
```

```
Arguments: <area name>, [<new address>]
Result    : <address>
```

## 1.78 EMS\_english.guide/EMS\_Area\_Type

```
EMS_Area_Type
-----
```

```
Arguments: <area name>, [<new choice>]
Result    : <choice>
```

## 1.79 EMS\_english.guide/EMS\_Area\_Msg\_Path

```
EMS_Area_Msg_Path
-----
```

```
Arguments: <area name>, [<new path>]
Result    : <path>
```

## 1.80 EMS\_english.guide/EMS\_Area\_Msg\_AltPath

```
EMS_Area_Msg_AltPath
-----
```

```
Arguments: <area name>, [<new path>]
Result    : <path>
```

## 1.81 EMS\_english.guide/EMS\_Area\_Msg\_DBname

EMS\_Area\_Msg\_DBname

-----

Arguments: <area name>, [<new name>]

Result : <name>

## 1.82 EMS\_english.guide/EMS\_Area\_Msg\_Description

EMS\_Area\_Msg\_Description

-----

Arguments: <area name>, [<new string>]

Result : <string>

## 1.83 EMS\_english.guide/EMS\_Area\_File\_Path

EMS\_Area\_File\_Path

-----

Arguments: <area name>, [<new path>]

Result : <path>

## 1.84 EMS\_english.guide/EMS\_Area\_File\_AltPath

EMS\_Area\_File\_AltPath

-----

Arguments: <area name>, [<new path>]

Result : <path>

## 1.85 EMS\_english.guide/EMS\_Area\_File\_DBname

EMS\_Area\_File\_DBname

-----

Arguments: <area name>, [<new name>]

Result : <name>

---

## 1.86 EMS\_english.guide/EMS\_Area\_File\_Description

EMS\_Area\_File\_Description  
-----

Arguments: <area name>, [<new string>]  
Result : <string>

## 1.87 EMS\_english.guide/EMS\_Area\_Group\_Name

EMS\_Area\_Group\_Name  
-----

Arguments: <area name>, [<new name>]  
Result : <name>

## 1.88 EMS\_english.guide/EMS\_Area\_Group\_Level

EMS\_Area\_Group\_Level  
-----

Arguments: <area name>, [<new level>]  
Result : <level>

## 1.89 EMS\_english.guide/EMS\_Area\_Maint\_Mode

EMS\_Area\_Maint\_Mode  
-----

Arguments: <area name>, [<new number>]  
Result : <number>

## 1.90 EMS\_english.guide/EMS\_Area\_Maint\_Limit

EMS\_Area\_Maint\_Limit  
-----

Arguments: <area name>, [<new choice>]  
Result : <choice>

---

### 1.91 EMS\_english.guide/EMS\_Area\_BBS\_Msg\_Name

EMS\_Area\_BBS\_Msg\_Name  
-----

Arguments: <area name>, [<new name>]  
Result : <name>

### 1.92 EMS\_english.guide/EMS\_Area\_BBS\_Msg\_Number

EMS\_Area\_BBS\_Msg\_Number  
-----

Arguments: <area name>, [<new number>]  
Result : <number>

### 1.93 EMS\_english.guide/EMS\_Area\_BBS\_File\_Name

EMS\_Area\_BBS\_File\_Name  
-----

Arguments: <area name>, [<new name>]  
Result : <name>

### 1.94 EMS\_english.guide/EMS\_Area\_BBS\_File\_Number

EMS\_Area\_BBS\_File\_Number  
-----

Arguments: <area name>, [<new number>]  
Result : <number>

### 1.95 EMS\_english.guide/EMS\_Area\_Language

EMS\_Area\_Language  
-----

Arguments: <area name>, [<new string>]  
Result : <string>

---

## 1.96 EMS\_english.guide/EMS\_Area\_IsPrivate

EMS\_Area\_IsPrivate  
-----

Arguments: <area name>, [<new bool>]  
Result : <bool>

## 1.97 EMS\_english.guide/EMS\_Area\_IsLocal

EMS\_Area\_IsLocal  
-----

Arguments: <area name>, [<new bool>]  
Result : <bool>

## 1.98 EMS\_english.guide/EMS\_Area\_TwoPassImport

EMS\_Area\_TwoPassImport  
-----

Arguments: <area name>, [<new bool>]  
Result : <bool>

## 1.99 EMS\_english.guide/EMS\_Area\_PassThrough

EMS\_Area\_PassThrough  
-----

Arguments: <area name>, [<new bool>]  
Result : <bool>

## 1.100 EMS\_english.guide/EMS\_Area\_KeepDupes

EMS\_Area\_KeepDupes  
-----

Arguments: <area name>, [<new bool>]  
Result : <bool>

---

### 1.101 EMS\_english.guide/EMS\_Area\_KeepStats

EMS\_Area\_KeepStats  
-----

Arguments: <area name>, [<new bool>]  
Result : <bool>

### 1.102 EMS\_english.guide/EMS\_Area\_UnsafeTick

EMS\_Area\_UnsafeTick  
-----

Arguments: <area name>, [<new bool>]  
Result : <bool>

### 1.103 EMS\_english.guide/EMS\_Area\_NumOfDups

EMS\_Area\_NumOfDups  
-----

Arguments: <area name>, [<new number>]  
Result : <number>

### 1.104 EMS\_english.guide/EMS\_Area\_Create

EMS\_Area\_Create  
-----

Arguments: <area name>, <type>

### 1.105 EMS\_english.guide/EMS\_Area\_Delete

EMS\_Area\_Delete  
-----

Arguments: <area name>, [EVENDB]

---



### 1.106 EMS\_english.guide/EMS\_Area\_NameFromPath

EMS\_Area\_NameFromPath  
-----

Arguments: <path>  
Result : <area name>

### 1.107 EMS\_english.guide/EMS\_Area\_NameFromNumber

EMS\_Area\_NameFromNumber  
-----

Arguments: <BBS number>, MSG|FILE  
Result : <area name>

### 1.108 EMS\_english.guide/EMS\_Area\_FullFileName

EMS\_Area\_FullFileName  
-----

Arguments: <file name>  
Result : <area name>, <file name>

### 1.109 EMS\_english.guide/EMS\_Area\_HiMark

EMS\_Area\_HiMark  
-----

Arguments: <area name>, [<new hwm>]  
Result : <old hwm>

### 1.110 EMS\_english.guide/Database Information

Database Information  
=====

EMS\_Area\_Item\_List  
EMS\_Area\_Item\_List\_Marked  
EMS\_Area\_Item\_List\_Flagged  
EMS\_Area\_Item\_Mark  
EMS\_Area\_Item\_Flag

---

```

EMS_Area_Item_Delete
EMS_Area_Item_Delete_Marked
EMS_Area_Item_Header_From
EMS_Area_Item_Header_To
EMS_Area_Item_Header_Subject
EMS_Area_Item_Header_AttachedFile
EMS_Area_Item_Header_Date_Created
EMS_Area_Item_Header_Date_Received
EMS_Area_Item_Header_Link_Down
EMS_Area_Item_Header_Link_Up
EMS_Area_Item_Header_Flag

```

### 1.111 EMS\_english.guide/EMS\_Area\_Item\_List

```

EMS_Area_Item_List
-----

```

Arguments: <area name>, MSG|FILE, <stem name>

### 1.112 EMS\_english.guide/EMS\_Area\_Item\_List\_Marked

```

EMS_Area_Item_List_Marked
-----

```

Arguments: <area name>, MSG|FILE, <stem name>

### 1.113 EMS\_english.guide/EMS\_Area\_Item\_List\_Flagged

```

EMS_Area_Item_List_Flagged
-----

```

Arguments: <area name>, MSG|FILE, <stem name>, <flag names>

### 1.114 EMS\_english.guide/EMS\_Area\_Item\_Mark

```

EMS_Area_Item_Mark
-----

```

Arguments: <area name>, MSG|FILE, <number>, [<new status>]  
 Result : <status>

---

### 1.115 EMS\_english.guide/EMS\_Area\_Item\_Flag

EMS\_Area\_Item\_Flag  
-----

Arguments: <area name>, MSG|FILE, <number>, <flag name>, [<new status>]  
Result : <status>

### 1.116 EMS\_english.guide/EMS\_Area\_Item\_Delete

EMS\_Area\_Item\_Delete  
-----

Arguments: <area name>, MSG|FILE, <number>

### 1.117 EMS\_english.guide/EMS\_Area\_Item\_Delete\_Marked

EMS\_Area\_Item\_Delete\_Marked  
-----

Arguments: <area name>, MSG|FILE

### 1.118 EMS\_english.guide/EMS\_Area\_Item\_Header\_From

EMS\_Area\_Item\_Header\_From  
-----

Arguments: <area name>, MSG|FILE, <number>, [<new value>]  
Result : <value>

### 1.119 EMS\_english.guide/EMS\_Area\_Item\_Header\_To

EMS\_Area\_Item\_Header\_To  
-----

Arguments: <area name>, MSG|FILE, <number>, [<new value>]  
Result : <value>

---

## 1.120 EMS\_english.guide/EMS\_Area\_Item\_Header\_Subject

EMS\_Area\_Item\_Header\_Subject  
-----

Arguments: <area name>, MSG|FILE, <number>, [<new value>]  
Result : <value>

## 1.121 EMS\_english.guide/EMS\_Area\_Item\_Header\_AttachedFile

EMS\_Area\_Item\_Header\_AttachedFile  
-----

Arguments: <area name>, MSG|FILE, <number>, [<new value>]  
Result : <value>

## 1.122 EMS\_english.guide/EMS\_Area\_Item\_Header\_Date\_Created

EMS\_Area\_Item\_Header\_Date\_Created  
-----

Arguments: <area name>, MSG|FILE, <number>, [<new value>]  
Result : <value>

## 1.123 EMS\_english.guide/EMS\_Area\_Item\_Header\_Date\_Received

EMS\_Area\_Item\_Header\_Date\_Received  
-----

Arguments: <area name>, MSG|FILE, <number>, [<new value>]  
Result : <value>

## 1.124 EMS\_english.guide/EMS\_Area\_Item\_Header\_Link\_Down

EMS\_Area\_Item\_Header\_Link\_Down  
-----

Arguments: <area name>, MSG|FILE, <number>  
Result : <value>

---

### 1.125 EMS\_english.guide/EMS\_Area\_Item\_Header\_Link\_Up

EMS\_Area\_Item\_Header\_Link\_Up

-----

Arguments: <area name>, MSG|FILE, <number>

Result : <value>

### 1.126 EMS\_english.guide/EMS\_Area\_Item\_Header\_Flag

EMS\_Area\_Item\_Header\_Flag

-----

Arguments: <area name>, MSG|FILE, <number>, <flag name>, [<new status>]

Result : <status>

### 1.127 EMS\_english.guide/Checking for Existence

Checking for Existence

=====

EMS\_Aka\_Check

EMS\_Aka\_Nearer

EMS\_Node\_Check

EMS\_Area\_Check

### 1.128 EMS\_english.guide/EMS\_Aka\_Check

EMS\_Aka\_Check

-----

Arguments: <address>

Result : <bool>

### 1.129 EMS\_english.guide/EMS\_Aka\_Nearer

EMS\_Aka\_Nearer

-----

Arguments: <address>

Result : <aka address>

### 1.130 EMS\_english.guide/EMS\_Node\_Check

EMS\_Node\_Check

-----

Arguments: <node address>

Result : <bool>

### 1.131 EMS\_english.guide/EMS\_Area\_Check

EMS\_Area\_Check

-----

Arguments: <area name>

Result : <bool>

### 1.132 EMS\_english.guide/Tosser Control

Tosser Control

=====

EMS\_Tosser\_Import

EMS\_Tosser\_PostImport

EMS\_Tosser\_Export

EMS\_Tosser\_Rescue

EMS\_Tosser\_Rescan

EMS\_Tosser\_TestRouting

### 1.133 EMS\_english.guide/EMS\_Tosser\_Import

EMS\_Tosser\_Import

-----

Arguments: [<domain to import>]

### 1.134 EMS\_english.guide/EMS\_Tosser\_PostImport

EMS\_Tosser\_PostImport

-----

Arguments: [<areas to export>]

---

### 1.135 EMS\_english.guide/EMS\_Tosser\_Export

EMS\_Tosser\_Export  
-----

Arguments: [<areas to export>]

### 1.136 EMS\_english.guide/EMS\_Tosser\_Rescue

EMS\_Tosser\_Rescue  
-----

Arguments: <areas to rescue>, <address to rescue for>, <mode>

### 1.137 EMS\_english.guide/EMS\_Tosser\_Rescan

EMS\_Tosser\_Rescan  
-----

Arguments: <areas to rescan>, <address to rescan for>, <mode>, [<from user>], [<to user>], [<subject>], [<num of days back>]

### 1.138 EMS\_english.guide/EMS\_Tosser\_TestRouting

EMS\_Tosser\_TestRouting  
-----

Arguments: <from address>, <to address var name>, <flavor var name>

### 1.139 EMS\_english.guide/Database Control

Database Control  
=====

EMS\_Database\_Caches\_Update  
EMS\_Database\_Caches\_Load  
EMS\_Database\_Caches\_Free  
EMS\_Database\_Maint\_Internal  
EMS\_Database\_AutoMaint  
EMS\_Database\_Renum  
EMS\_Database\_Delete\_By\_Num  
EMS\_Database\_Delete\_By\_Day

---

EMS\_Database\_Search  
EMS\_Database\_Names

## 1.140 EMS\_english.guide/EMS\_Database\_Caches\_Update

EMS\_Database\_Caches\_Update  
-----

Arguments: <areas>, MSG|FILE

## 1.141 EMS\_english.guide/EMS\_Database\_Caches\_Load

EMS\_Database\_Caches\_Load  
-----

Arguments: <areas>, MSG|FILE

## 1.142 EMS\_english.guide/EMS\_Database\_Caches\_Free

EMS\_Database\_Caches\_Free  
-----

Arguments: <areas>, MSG|FILE

## 1.143 EMS\_english.guide/EMS\_Database\_Maint\_Internal

EMS\_Database\_Maint\_Internal  
-----

Arguments: <areas>, MSG|FILE

## 1.144 EMS\_english.guide/EMS\_Database\_AutoMaint

EMS\_Database\_AutoMaint  
-----

Arguments: <areas>, MSG|FILE

---



## 1.145 EMS\_english.guide/EMS\_Database\_Renum

EMS\_Database\_Renum  
-----

Arguments: <areas>, MSG|FILE

## 1.146 EMS\_english.guide/EMS\_Database\_Delete\_By\_Num

EMS\_Database\_Delete\_By\_Num  
-----

Arguments: <areas>, MSG|FILE, <max number of messages>

## 1.147 EMS\_english.guide/EMS\_Database\_Delete\_By\_Day

EMS\_Database\_Delete\_By\_Day  
-----

Arguments: <areas>, MSG|FILE, <how many days back>

## 1.148 EMS\_english.guide/EMS\_Database\_Search

EMS\_Database\_Search  
-----

Arguments: <area> , MSG|FILE, <stem name>, <pattern>

## 1.149 EMS\_english.guide/EMS\_Database\_Names

EMS\_Database\_Names  
-----

Arguments: <msg names stem>, <file names stem>

## 1.150 EMS\_english.guide/Userlist Handling

---

Userlist Handling  
=====

EMS\_User\_List  
EMS\_User\_Add  
EMS\_User\_Delete  
EMS\_User\_Address\_List  
EMS\_User\_Address\_Add  
EMS\_User\_Address\_Delete  
EMS\_User\_Comment  
EMS\_User\_Nick  
EMS\_User\_NameFromAddress

### 1.151 EMS\_english.guide/EMS\_User\_List

EMS\_User\_List  
-----

Arguments: <user stem name>

### 1.152 EMS\_english.guide/EMS\_User\_Add

EMS\_User\_Add  
-----

Arguments: <user name>

### 1.153 EMS\_english.guide/EMS\_User\_Delete

EMS\_User\_Delete  
-----

Arguments: <user name>

### 1.154 EMS\_english.guide/EMS\_User\_Address\_List

EMS\_User\_Address\_List  
-----

Arguments: <user name>, <address stem name>

---

### 1.155 EMS\_english.guide/EMS\_User\_Address\_Add

EMS\_User\_Address\_Add  
-----

Arguments: <user name>, <address>

### 1.156 EMS\_english.guide/EMS\_User\_Address\_Delete

EMS\_User\_Address\_Delete  
-----

Arguments: <user name>, <address>

### 1.157 EMS\_english.guide/EMS\_User\_Comment

EMS\_User\_Comment  
-----

Arguments: <user name>, [<new value>]

Result : <value>

### 1.158 EMS\_english.guide/EMS\_User\_Nick

EMS\_User\_Nick  
-----

Arguments: <user name>, [<new nick name>]

Result : <nick name>

### 1.159 EMS\_english.guide/EMS\_User\_NameFromAddress

EMS\_User\_NameFromAddress  
-----

Arguments: <address>

Result : <user name>

---

## 1.160 EMS\_english.guide/Flow File Handling

Flow File Handling  
=====

EMS\_Flow\_Get  
EMS\_Flow\_Check  
EMS\_Flow\_Add  
EMS\_Flow\_Remove

## 1.161 EMS\_english.guide/EMS\_Flow\_Get

EMS\_Flow\_Get  
-----

Arguments: <domain>, <filenames stem>, <addresses stem>, <kinds stem>

## 1.162 EMS\_english.guide/EMS\_Flow\_Check

EMS\_Flow\_Check  
-----

Arguments: <domain>, <filename>, <address>, [<kind>]  
Result : <result> [OK|NO]

## 1.163 EMS\_english.guide/EMS\_Flow\_Add

EMS\_Flow\_Add  
-----

Arguments: <domain>, <filename>, <address>, <kind>, <mode>

## 1.164 EMS\_english.guide/EMS\_Flow\_Remove

EMS\_Flow\_Remove  
-----

Arguments: <domain>, <filename>, <address>, <kind>

---

## 1.165 EMS\_english.guide/Message-File Handling

Message-File Handling

=====

EMS\_Item\_Alloc  
EMS\_Item\_Free  
EMS\_Item\_Write  
EMS\_Item\_Number  
EMS\_Item\_Area  
EMS\_Item\_Lines\_Count  
EMS\_Item\_Lines\_Get  
EMS\_Item\_Lines\_Set  
EMS\_Item\_Lines\_Delete  
EMS\_Item\_Line  
EMS\_Item\_Line\_Delete  
EMS\_Item\_Line\_Add\_Head  
EMS\_Item\_Line\_Add\_Tail  
EMS\_Item\_Line\_Unique  
EMS\_Item\_Lines\_Format  
EMS\_Item\_File\_Read  
EMS\_Item\_File\_Write  
EMS\_Item\_SeenBy\_Get  
EMS\_Item\_SeenBy\_Set  
EMS\_Item\_Path\_Get  
EMS\_Item\_Path\_Set  
EMS\_Item\_Header\_From  
EMS\_Item\_Header\_To  
EMS\_Item\_Header\_Subject  
EMS\_Item\_Header\_AttachedFile  
EMS\_Item\_Header\_Date\_Created  
EMS\_Item\_Header\_Date\_Received  
EMS\_Item\_Header\_Address\_From  
EMS\_Item\_Header\_Address\_To  
EMS\_Item\_Header\_Link\_Down  
EMS\_Item\_Header\_Link\_Up  
EMS\_Item\_Header\_Flag  
EMS\_Item\_Header\_Edit

## 1.166 EMS\_english.guide/EMS\_Item\_Alloc

EMS\_Item\_Alloc

-----

Arguments: <msg id>, <area name>, MSG|FILE, [<number>]

## 1.167 EMS\_english.guide/EMS\_Item\_Free

EMS\_Item\_Free

-----

Arguments: <msg id>

### 1.168 EMS\_english.guide/EMS\_Item\_Write

EMS\_Item\_Write

-----

Arguments: <msg id>

### 1.169 EMS\_english.guide/EMS\_Item\_Number

EMS\_Item\_Number

-----

Arguments: <msg id>, [<new number>]

Result : <number>

### 1.170 EMS\_english.guide/EMS\_Item\_Area

EMS\_Item\_Area

-----

Arguments: <msg id>, [<new area name>]

Result : <area name>

### 1.171 EMS\_english.guide/EMS\_Item\_Lines\_Count

EMS\_Item\_Lines\_Count

-----

Arguments: <msg id>, TEXT|HEADER

Result : <num of lines>

### 1.172 EMS\_english.guide/EMS\_Item\_Lines\_Get

EMS\_Item\_Lines\_Get

-----

Arguments: <msg id>, TEXT|HEADER, <text stem name>

### 1.173 EMS\_english.guide/EMS\_Item\_Lines\_Set

EMS\_Item\_Lines\_Set

-----

Arguments: <msg id>, TEXT|HEADER, <text stem name>

### 1.174 EMS\_english.guide/EMS\_Item\_Lines\_Delete

EMS\_Item\_Lines\_Delete

-----

Arguments: <msg id>, TEXT|HEADER

### 1.175 EMS\_english.guide/EMS\_Item\_Line

EMS\_Item\_Line

-----

Arguments: <msg id>, TEXT|HEADER, <line number>, [<new line text>]

Result : <line text>

### 1.176 EMS\_english.guide/EMS\_Item\_Line\_Delete

EMS\_Item\_Line\_Delete

-----

Arguments: <msg id>, TEXT|HEADER, <line number>

### 1.177 EMS\_english.guide/EMS\_Item\_Line\_Add\_Head

EMS\_Item\_Line\_Add\_Head

-----

Arguments: <msg id>, TEXT|HEADER, <new line text>

---

### 1.178 EMS\_english.guide/EMS\_Item\_Line\_Add\_Tail

EMS\_Item\_Line\_Add\_Tail  
-----

Arguments: <msg id>, TEXT|HEADER, <new line text>

### 1.179 EMS\_english.guide/EMS\_Item\_Line\_Unique

EMS\_Item\_Line\_Unique  
-----

Arguments: <msg id>, TEXT|HEADER, <text to match>, <new line text>

### 1.180 EMS\_english.guide/EMS\_Item\_Lines\_Format

EMS\_Item\_Lines\_Format  
-----

Arguments: <msg id>, [<quote text>], [<quote width>], [<quote options>]

### 1.181 EMS\_english.guide/EMS\_Item\_File\_Read

EMS\_Item\_File\_Read  
-----

Arguments: <msg id>, TEXT|HEADER, <file name>, [APPEND]

### 1.182 EMS\_english.guide/EMS\_Item\_File\_Write

EMS\_Item\_File\_Write  
-----

Arguments: <msg id>, TEXT|HEADER, <file name>, [APPEND]

### 1.183 EMS\_english.guide/EMS\_Item\_SeenBy\_Get



EMS\_Item\_SeenBy\_Get

-----

Arguments: <msg id>, <address stem name>

### 1.184 EMS\_english.guide/EMS\_Item\_SeenBy\_Set

EMS\_Item\_SeenBy\_Set

-----

Arguments: <msg id>, <address stem name>

### 1.185 EMS\_english.guide/EMS\_Item\_Path\_Get

EMS\_Item\_Path\_Get

-----

Arguments: <msg id>, <address stem name>

### 1.186 EMS\_english.guide/EMS\_Item\_Path\_Set

EMS\_Item\_Path\_Set

-----

Arguments: <msg id>, <address stem name>

### 1.187 EMS\_english.guide/EMS\_Item\_Header\_From

EMS\_Item\_Header\_From

-----

Arguments: <msg id>, [<new value>]

Result : <value>

### 1.188 EMS\_english.guide/EMS\_Item\_Header\_To

EMS\_Item\_Header\_To

-----

Arguments: <msg id>, [<new value>]

Result : <value>

### 1.189 EMS\_english.guide/EMS\_Item\_Header\_Subject

EMS\_Item\_Header\_Subject

-----

Arguments: <msg id>, [<new value>]

Result : <value>

### 1.190 EMS\_english.guide/EMS\_Item\_Header\_AttachedFile

EMS\_Item\_Header\_AttachedFile

-----

Arguments: <msg id>, [<new value>]

Result : <value>

### 1.191 EMS\_english.guide/EMS\_Item\_Header\_Date\_Created

EMS\_Item\_Header\_Date\_Created

-----

Arguments: <msg id>, [<new value>]

Result : <value>

### 1.192 EMS\_english.guide/EMS\_Item\_Header\_Date\_Received

EMS\_Item\_Header\_Date\_Received

-----

Arguments: <msg id>, [<new value>]

Result : <value>

---

### 1.193 EMS\_english.guide/EMS\_Item\_Header\_Address\_From

EMS\_Item\_Header\_Address\_From  
-----

Arguments: <msg id>, [<new value>]  
Result : <value>

### 1.194 EMS\_english.guide/EMS\_Item\_Header\_Address\_To

EMS\_Item\_Header\_Address\_To  
-----

Arguments: <msg id>, [<new value>]  
Result : <value>

### 1.195 EMS\_english.guide/EMS\_Item\_Header\_Link\_Down

EMS\_Item\_Header\_Link\_Down  
-----

Arguments: <msg id>  
Result : <value>

### 1.196 EMS\_english.guide/EMS\_Item\_Header\_Link\_Up

EMS\_Item\_Header\_Link\_Up  
-----

Arguments: <msg id>  
Result : <value>

### 1.197 EMS\_english.guide/EMS\_Item\_Header\_Flag

EMS\_Item\_Header\_Flag  
-----

Arguments: <msg id>, <flag name>, [<new status>]  
Result : <status>

---

## 1.198 EMS\_english.guide/EMS\_Item\_Header\_Edit

EMS\_Item\_Header\_Edit  
-----

Arguments: <msg id>, <requester name>, <editor command + arguments>  
Result : <result>

## 1.199 EMS\_english.guide/Areafix

Areafix  
=====

EMS\_Areafix\_Activate  
EMS\_Areafix\_Passivate  
EMS\_Areafix\_Node\_Add  
EMS\_Areafix\_Node\_Delete  
EMS\_Areafix\_Node\_Links\_Get  
EMS\_Areafix\_Node\_Links\_Set  
EMS\_Areafix\_Node\_IsLinked  
EMS\_Areafix\_Node\_MatchGroup  
EMS\_Areafix\_Area\_Add  
EMS\_Areafix\_Area\_Delete  
EMS\_Areafix\_Area\_Links\_Get  
EMS\_Areafix\_Area\_Links\_Set

## 1.200 EMS\_english.guide/EMS\_Areafix\_Activate

EMS\_Areafix\_Activate  
-----

Arguments: <node address>, [<area name>]

## 1.201 EMS\_english.guide/EMS\_Areafix\_Passivate

EMS\_Areafix\_Passivate  
-----

Arguments: <node address>, [<area name>]

---

## 1.202 EMS\_english.guide/EMS\_Areafix\_Node\_Add

EMS\_Areafix\_Node\_Add  
-----

Arguments: <node address>, <area name>

## 1.203 EMS\_english.guide/EMS\_Areafix\_Node\_Delete

EMS\_Areafix\_Node\_Delete  
-----

Arguments: <node address>, <area name>

## 1.204 EMS\_english.guide/EMS\_Areafix\_Node\_Links\_Get

EMS\_Areafix\_Node\_Links\_Get  
-----

Arguments: <node address>, [<active areas stem name>], [<passive areas stem name>]

## 1.205 EMS\_english.guide/EMS\_Areafix\_Node\_Links\_Set

EMS\_Areafix\_Node\_Links\_Set  
-----

Arguments: <node address>, [<active areas stem name>], [<passive areas stem name>]

## 1.206 EMS\_english.guide/EMS\_Areafix\_Node\_IsLinked

EMS\_Areafix\_Node\_IsLinked  
-----

Arguments: <node address>, <area name>  
Result : <result>

---

## 1.207 EMS\_english.guide/EMS\_Areafix\_Node\_MatchGroup

EMS\_Areafix\_Node\_MatchGroup  
-----

Arguments: <node address>, <area name>  
Result : <bool>

## 1.208 EMS\_english.guide/EMS\_Areafix\_Area\_Add

EMS\_Areafix\_Area\_Add  
-----

Arguments: <area name>, <node address>

## 1.209 EMS\_english.guide/EMS\_Areafix\_Area\_Delete

EMS\_Areafix\_Area\_Delete  
-----

Arguments: <area name>, <node address>

## 1.210 EMS\_english.guide/EMS\_Areafix\_Area\_Links\_Get

EMS\_Areafix\_Area\_Links\_Get  
-----

Arguments: <area name>, [<active nodes stem name>], [<passive nodes stem name>]

## 1.211 EMS\_english.guide/EMS\_Areafix\_Area\_Links\_Set

EMS\_Areafix\_Area\_Links\_Set  
-----

Arguments: <area name>, [<active nodes stem name>], [<passive nodes stem name>]

---

## 1.212 EMS\_english.guide/Custom Configurations

Custom Configurations

=====

```
EMS_CustomCfg_Get
EMS_CustomCfg_Set
EMS_CustomCfg_Add
EMS_CustomCfg_Delete
EMS_CustomCfg_Free
EMS_CustomCfg_Flush
EMS_CustomCfg_Search
```

## 1.213 EMS\_english.guide/EMS\_CustomCfg\_Get

EMS\_CustomCfg\_Get

-----

Arguments: <cfg name>, <item>, <item data label>, <data stem>  
Result : <result>

## 1.214 EMS\_english.guide/EMS\_CustomCfg\_Set

EMS\_CustomCfg\_Set

-----

Arguments: <cfg name>, <item>, <item data label>, <data stem>  
Result : <result>

## 1.215 EMS\_english.guide/EMS\_CustomCfg\_Add

EMS\_CustomCfg\_Add

-----

Arguments: <cfg name>, <item>

## 1.216 EMS\_english.guide/EMS\_CustomCfg\_Delete

EMS\_CustomCfg\_Delete

-----

Arguments: <cfg name>, <item>

---

### 1.217 EMS\_english.guide/EMS\_CustomCfg\_Free

EMS\_CustomCfg\_Free  
-----

Arguments: <cfg name>

### 1.218 EMS\_english.guide/EMS\_CustomCfg\_Flush

EMS\_CustomCfg\_Flush  
-----

Arguments: <cfg name>

### 1.219 EMS\_english.guide/EMS\_CustomCfg\_Search

EMS\_CustomCfg\_Search  
-----

Arguments: <cfg name>, <search pattern>, <result stem>, [REVERSE]

### 1.220 EMS\_english.guide/Requesters

Requesters  
=====

EMS\_String\_Select  
EMS\_File\_Select  
EMS\_Area\_Select  
EMS\_User\_Select  
EMS\_Do\_Choice\_Single  
EMS\_Do\_Choice\_Multi  
EMS\_Do\_Request

### 1.221 EMS\_english.guide/EMS\_String\_Select

EMS\_String\_Select  
-----

Arguments: <title>, <text var>

Result : <result>

---



## 1.222 EMS\_english.guide/EMS\_File\_Select

EMS\_File\_Select  
-----

Arguments: <title>, <file var>  
Result : <result>

## 1.223 EMS\_english.guide/EMS\_Area\_Select

EMS\_Area\_Select  
-----

Arguments: <area name var>  
Result : <result>

## 1.224 EMS\_english.guide/EMS\_User\_Select

EMS\_User\_Select  
-----

Arguments: <user name var>, [<address var>]  
Result : <result>

## 1.225 EMS\_english.guide/EMS\_Do\_Choice\_Single

EMS\_Do\_Choice\_Single  
-----

Arguments: <title>, <labels stem>, <active label var>  
Result : <result> [OK|CANCEL]

## 1.226 EMS\_english.guide/EMS\_Do\_Choice\_Multi

EMS\_Do\_Choice\_Multi  
-----

Arguments: <title>, <labels stem>, <labels' status stem>  
Result : <result> [OK|CANCEL]

---

## 1.227 EMS\_english.guide/EMS\_Do\_Request

EMS\_Do\_Request  
-----

Arguments: <text>, <buttons>  
Result : <selected button>

## 1.228 EMS\_english.guide/Stem Manipulation

Stem Manipulation  
=====

EMS\_Search\_In\_Stem  
EMS\_Add\_To\_Stem  
EMS\_Translate\_Stem  
EMS\_Sort\_Stem  
EMS\_Calc\_Stem\_Width

## 1.229 EMS\_english.guide/EMS\_Search\_In\_Stem

EMS\_Search\_In\_Stem  
-----

Arguments: <stem name>, <search pattern>, [<last match> ]  
Result : <next match>

## 1.230 EMS\_english.guide/EMS\_Add\_To\_Stem

EMS\_Add\_To\_Stem  
-----

Arguments: <stem name>, <new item>

## 1.231 EMS\_english.guide/EMS\_Translate\_Stem

EMS\_Translate\_Stem  
-----

Arguments: <format>, <modifiers stem>, <data stem>  
Result : <result>

---

### 1.232 EMS\_english.guide/EMS\_Sort\_Stem

EMS\_Sort\_Stem  
-----

Arguments: <stem name>, [ADDRESS]

### 1.233 EMS\_english.guide/EMS\_Calc\_Stem\_Width

EMS\_Calc\_Stem\_Width  
-----

Arguments: <stem name>, [ADAPT|ADAPT\_RIGHT]  
Result : <width>

### 1.234 EMS\_english.guide/Scripts

Scripts  
\*\*\*\*\*

This chapter is still under translation. Please refer to the italian one.

ShutDown.ems  
Help.ems  
General.ems  
ListDBnames.ems  
Automaint.ems  
MaintInternal.ems  
TestRouting.ems  
ExtractFile.ems  
MaintFiles.ems  
Export.ems  
Import.ems  
Count.ems  
AreaStat.ems  
Multisend.ems  
AreaFix.ems  
LocalAreaFix.ems  
TickAction.ems  
DMreply.ems

### 1.235 EMS\_english.guide/ShutDown.ems

---

ShutDown.ems  
=====

### 1.236 EMS\_english.guide/Help.ems

Help.ems  
=====

Arguments: [<cmd pattern>]

### 1.237 EMS\_english.guide/General.ems

General.ems  
=====

Arguments: <command> [<argument> [',' <argument> ...]]

### 1.238 EMS\_english.guide/ListDBnames.ems

ListDBnames.ems  
=====

### 1.239 EMS\_english.guide/Automaint.ems

Automaint.ems  
=====

Arguments: [<areas pattern>]

### 1.240 EMS\_english.guide/MaintInternal.ems

MaintInternal.ems  
=====

Arguments: [<areas pattern>]

---

### 1.241 EMS\_english.guide/TestRouting.ems

TestRouting.ems  
=====

Arguments: <from> <to> <flavor>

### 1.242 EMS\_english.guide/ExtractFile.ems

ExtractFile.ems  
=====

Arguments: <area name> <msg num>

### 1.243 EMS\_english.guide/MaintFiles.ems

MaintFiles.ems  
=====

Arguments: <area pattern> <option>

### 1.244 EMS\_english.guide/Export.ems

Export.ems  
=====

Arguments: [<areas pattern>]

### 1.245 EMS\_english.guide/Import.ems

Import.ems  
=====

Arguments: <mode> <domain>

### 1.246 EMS\_english.guide/Count.ems

Count.ems  
=====

---

### 1.247 EMS\_english.guide/AreaStat.ems

AreaStat.ems  
=====

Arguments: <session number> <area name>

### 1.248 EMS\_english.guide/Multisend.ems

Multisend.ems  
=====

Arguments: <kind> <file> [<file> ...]

### 1.249 EMS\_english.guide/AreaFix.ems

AreaFix.ems  
=====

### 1.250 EMS\_english.guide/LocalAreaFix.ems

LocalAreaFix.ems  
=====

### 1.251 EMS\_english.guide/TickAction.ems

TickAction.ems  
=====

Arguments: [<option> ...]

### 1.252 EMS\_english.guide/DMreply.ems

DMreply.ems  
=====

Arguments: <session number> <area name> <msg num> <cmd> [<cmd\_args> ...]

---

## 1.253 EMS\_english.guide/How To Register

### How To Register

\*\*\*\*\*

EMS is a shareware program and in order to use it easily you should register, sending a fee. There are different fees, depending on your needs:

Only Point: 45.000 Lire = 50 DM = 30 US\$ = 20 UK  
Even Node: 90.000 Lire = 100 DM = 65 US\$ = 45 UK

If you register as a point you can always upgrade to the complete version, simply paying the difference. But if you were registered to GCCHOST V3.X, you can do the upgrade to EMS until 31-12-93 at these prices:

From Node to Node : 50.000 Lire = 55 DM = 35 US\$ = 25 UK  
From Point to Node : 60.000 Lire = 65 DM = 40 US\$ = 30 UK  
From Point to Point: 20.000 Lire = 20 DM = 15 US\$ = 10 UK

If you live in Italy, you can register directly from the author, filling up the REGISTRATION FORM that you will find in the archive file of EMS and sending it through e-mail to \*Davide Massarenti\*, at 2:332/505.3@fidonet.org or 39:102/501.3@amiganet.ftn.

The author's snail-mail address is:

Davide Massarenti  
Via Mascherella, 11  
41100 Modena (MO) Italy

You can use an eurocheque or the POSTAL GIRO ACCOUNT n. 12106415 (always Davide Massarenti). For normal cheque, please add 10.000 Lire as a contribution for the bank-transaction.

If you like outside Italy, you can contact through e-mail the following supporter, who can give you more information:

#### Italy:

Mario Mure'	2:332/505@fidonet.org	+39-59-226454
	2:332/2@fidonet.org	
	39:102/501@amiganet.ftn	

#### Denmark:

Adam Sjoegren	2:230/149@fidonet.org	+45-31354775
	39:141/109@amiganet.ftn	
Anders Wegge Jakobsen (Just support)	2:230/821@fidonet.org	+45-86-755253

#### Germany:

Robert Hofmann	2:2400/24@fidonet.org	
----------------	-----------------------	--

```

39:171/101@amiganet.ftn    | Zyxel 19.2
16:100/9024@zyxelnnet.ftn  |
47:52/23@fisnet.ftn       |+49-911-429747

```

```

2:2400/924@fidonet.org    |
39:171/102@amiganet.ftn   | ISDNB,C
16:100/9025@zyxelnnet.ftn |
47:52/123@fisnet.ftn     |+49-911-9941681

```

```
Robert_Hofmann@f24.n2400.z2.wnbbs.nbg.sub.org
```

Holland:

```
Stephan Wijman    2:2802/123@fidonet.org    |+31-40-480556
```

Sweden

```
Magnus Thelander 2:203/603.18@fidonet.org
                  2:2400/24.118@fidonet.org

```

```
Magnus_Thelander@p18.sandy.bbs.bad.se
```

United Kingdom:

```
Phil Clifford    2:253/404@fidonet.org    |
                  39:138/1@amiganet.ftn    |+44-246-236510
                  39:13/1@amiganet.ftn    | NOT 24hrs

```

```
pan@arkadia.wizdom.royle.org
```

```
Steve Dockar     2:250/320@fidonet.org    |+44-532-391100
                  39:138/14@amiganet.ftn   | 24hrs

```

```
dox@dabbs.adsp.sub.org too
```

United States:

```
Bill Peck        1:321/242@fidonet.org    |+1-413-448-8367
```

## 1.254 EMS\_english.guide/Error codes

Error codes

\*\*\*\*\*

In EMS the error codes are hierarchically organized as two levels: the first is the one that is written in the 'rc' variable by ARExx command, and can be:

```

EMS_ERR_NOMEM      rc = 61
EMS_ERR_IO         rc = 62
EMS_ERR_OBJ        rc = 63
EMS_ERR_FILESYSTEM rc = 64
EMS_ERR_DATABASE   rc = 65
EMS_ERR_ADDRESS    rc = 66

```



```
EMS_ERR_TOSSER      rc = 67
```

the other level can be found calling the 'EMS\_LastError()' command, whose result is a string describing the error. This string has the following format:

```
<primary error>:<secondary error>:...
```

Here there are the value for the '<secondary error>':

```
*EMS_ERR_IO*
    EMS_FILE_ERR_IOERR      1
    EMS_FILE_ERR_LOGLINE    2
    EMS_FILE_ERR_ENDCHAR    3
    EMS_FILE_ERR_SRTPKT     4
    EMS_FILE_ERR_CANTOPEN_IN 5
    EMS_FILE_ERR_CANTOPEN_OUT 6

*EMS_ERR_OBJ*
    EMS_OBJ_ERR_NOT_SAME_FATHER 1
    EMS_OBJ_ERR_NO_FILE         2
    EMS_OBJ_ERR_BUFFER_TOO_SMALL 3

*EMS_ERR_FILESYSTEM*
    EMS_FS_ERR_CANTCD      1
    EMS_FS_ERR_NOTADIR     2
    EMS_FS_ERR_CREATEDIR   3

*EMS_ERR_DATABASE*
    EMS_DB_ERR_HEADER      1
    EMS_DB_ERR_BODY        2
    EMS_DB_ERR_WRONGSEENBY 3
    EMS_DB_ERR_WRONGPATH   4
    EMS_DB_ERR_WRONGMSGNUMBER 5
    EMS_DB_ERR_DONTEXIST   6
    EMS_DB_ERR_CANTCREATE  7

*EMS_ERR_ADDRESS*
    EMS_AD_ERR_NO_ADDRESS   1
    EMS_AD_ERR_WRONG_FIDO   2
    EMS_AD_ERR_WRONG_UUCP   3

*EMS_ERR_TOSSER*
    EMS_TSR_ERR_WRONG_PACKET_TYPE 1
    EMS_TSR_ERR_WRONG_MSG_HEADER  2
    EMS_TSR_ERR_WRONG_PASSWORD    3
    EMS_TSR_ERR_NO_ORIGIN          4
    EMS_TSR_ERR_UNLISTED_NODE      5
    EMS_TSR_ERR_HACKER_PKT         6
    EMS_TSR_ERR_NO_ARCHIVER        7
    EMS_TSR_ERR_CANTARC            8
    EMS_TSR_ERR_CANTUNARC          9
    EMS_TSR_ERR_NO_DOMAIN         10
    EMS_TSR_ERR_NO_AREA           11
    EMS_TSR_ERR_CANTLOADCONFIG    12
    EMS_TSR_ERR_DUPLICATE         13
    EMS_TSR_ERR_WRONG_CRC         14
```

---

EMS_TSR_ERR_NO_DATABASE_MSG	15
EMS_TSR_ERR_NO_DATABASE_FILE	16
EMS_TSR_ERR_NO_ARCHIVER_NODE	17

## 1.255 EMS\_english.guide/Index

Index

\*\*\*\*\*

Summary of Switches  
 Summary of Variables  
 Summary of Configuration Keywords  
 Summary of ARExx Commands

## 1.256 EMS\_english.guide/Summary of Switches

Summary of Switches

=====

AREAFIX_EXTERNAL	SWITCHes
AREAFIX_INTERNAL	SWITCHes
CRASH_NORMAL	SWITCHes
CRASH_TO_BOSS	SWITCHes
DO_BACKUP	SWITCHes
FILES_FORWARD	SWITCHes
FILES_STOP	SWITCHes
HOLD_NORMAL	SWITCHes
HOLD_TO_BOSS	SWITCHes
IGNORE_DATE	SWITCHes
IGNORE_FROM	SWITCHes
IGNORE_KILL_FLAG	SWITCHes
IGNORE_SENT_FLAG	SWITCHes
IGNORE_SUBJECT	SWITCHes
IGNORE_TEXT	SWITCHes
IGNORE_TO	SWITCHes
KEEP_AREAFIX	SWITCHes
KEEP_DUPES	SWITCHes
KEEP_MATRIX	SWITCHes
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NO_BACKUP	SWITCHes
NO_KEEP_AREAFIX	SWITCHes
NO_KEEP_MATRIX	SWITCHes
NO_RENUM_AFTER_IMPORT	SWITCHes
NO_ROUTING	SWITCHes
RENUM_AFTER_IMPORT	SWITCHes
RENUM_BY_ARRIVAL_TIME	SWITCHes
RENUM_BY_CREATION_TIME	SWITCHes

SEARCH_ALL	SWITCHes
SEARCH_NEW	SWITCHes
SEARCH_ON_DATE	SWITCHes
SEARCH_ON_FROM	SWITCHes
SEARCH_ON_SUBJECT	SWITCHes
SEARCH_ON_TEXT	SWITCHes
SEARCH_ON_TO	SWITCHes
USE_KILL_FLAG	SWITCHes
USE_ROUTING	SWITCHes
USE_SENT_FLAG	SWITCHes

## 1.257 EMS\_english.guide/Summary of Variables

Summary of Variables

=====

ARC	VARIABLEs
AREAFIX_NAME	VARIABLEs
BACKUP_DIR	VARIABLEs
DB_FILE_NAME	VARIABLEs
DB_MSG_NAME	VARIABLEs
DUPECHECKING_SIZE	VARIABLEs
LOG_FILE	VARIABLEs
LOG_LEVEL	VARIABLEs
MAX_PACKET_SIZE	VARIABLEs
MIN_FREEMEM_SIZE	VARIABLEs
NEWAREAS_FILE_PATH	VARIABLEs
NEWAREAS_MSG_PATH	VARIABLEs
NODELIST_PATH	VARIABLEs
ORIGIN_NAME	VARIABLEs
SCRIPT_DELETE_NAME	VARIABLEs
SCRIPT_EDITOR_ARGS	VARIABLEs
SCRIPT_EDITOR_NAME	VARIABLEs
SCRIPT_MSG_FILE	VARIABLEs
SCRIPT_REXX_DIR	VARIABLEs
SCRIPT_TEXT_DIR	VARIABLEs
SYSOP_NAME	VARIABLEs
TEMP_DIR	VARIABLEs
UNARC	VARIABLEs

## 1.258 EMS\_english.guide/Summary of Configuration Keywords

Summary of Configuration Keywords

=====

Action	ROUTING
--------	---------

---

Address	NODEs
Address	AREAs
AltOutbound	DOMAINs
Arc	ARCHIVERs
Archiver	NODEs
Area	AREAs
AreafixAlert	NODEs
AreafixEchoList	NODEs
AreafixFileList	NODEs
AreafixName	NODEs
AreafixNotify	NODEs
AreafixPWD_in	NODEs
AreafixPWD_out	NODEs
AutoLink	NODEs
BBS_file_name	AREAs
BBS_file_number	AREAs
BBS_msg_name	AREAs
BBS_msg_number	AREAs
CanCrash	NODEs
CanCreateAreas	NODEs
Command	EXTERNALs
Disabled	LINKs
Fake	AKAs
FileAltPath	AREAs
FileDBname	AREAs
FileDescription	AREAs
FilePath	AREAs
Flavor	NODEs
From	ROUTING
FromFlavor	ROUTING
GroupFlags	NODEs
GroupLevel	NODEs
GroupLevel	AREAs
GroupName	NODEs
GroupName	AREAs
ID	ARCHIVERs
IDpos	ARCHIVERs
Inbound	DOMAINs
IsCommand	EXTERNALs
IsLocal	AREAs
IsPrivate	AREAs
KeepDupes	AREAs
KeepStats	AREAs
Language	AREAs
MaintLimit	AREAs
MaintMode	AREAs
MsgAltPath	AREAs
MsgDBname	AREAs
MsgDescription	AREAs
MsgPath	AREAs
Name	USERLIST
Name	AREAs
Name	ARCHIVERs
Name	DOMAINs
Name	VARIABLEs
Name	LINKs
Nick	USERLIST

---

Note	USERLIST
NumOfDupes	AREAs
Off	SWITCHes
On	SWITCHes
Outbound	DOMAINs
PacketPWD_in	NODEs
PacketPWD_out	NODEs
PacketType	NODEs
PackSmallFiles	NODEs
PassThrough	AREAs
ScreePos	EXTERNALs
SeenPathDim	NODEs
ShortCut	EXTERNALs
Status	SWITCHes
Title	EXTERNALs
To	ROUTING
ToFlavor	ROUTING
TwoPassImport	AREAs
Type	AREAs
Type	DOMAINs
Unarc	ARCHIVERs
UnsafeTick	AREAs
Value	VARIABLEs

## 1.259 EMS\_english.guide/Summary of ARexx Commands

Summary of ARexx Commands

=====

EMS_Address_Compare	EMS_Address_Compare
EMS_Address_Compare_Wild	EMS_Address_Compare_Wild
EMS_Address_GetDomain	EMS_Address_GetDomain
EMS_Address_IsFIDO	EMS_Address_IsFIDO
EMS_Address_IsPOINT	EMS_Address_IsPOINT
EMS_Address_IsUSENET	EMS_Address_IsUSENET
EMS_Address_IsUUCP	EMS_Address_IsUUCP
EMS_Add_To_Stem	EMS_Add_To_Stem
EMS_Akas	EMS_Akas
EMS_Aka_Check	EMS_Aka_Check
EMS_Aka_Nearer	EMS_Aka_Nearer
EMS_Archivers	EMS_Archivers
EMS_Areafix_Activate	EMS_Areafix_Activate
EMS_Areafix_Area_Add	EMS_Areafix_Area_Add
EMS_Areafix_Area_Delete	EMS_Areafix_Area_Delete
EMS_Areafix_Area_Links_Get	EMS_Areafix_Area_Links_Get
EMS_Areafix_Area_Links_Set	EMS_Areafix_Area_Links_Set
EMS_Areafix_Node_Add	EMS_Areafix_Node_Add
EMS_Areafix_Node_Delete	EMS_Areafix_Node_Delete
EMS_Areafix_Node_IsLinked	EMS_Areafix_Node_IsLinked
EMS_Areafix_Node_Links_Get	EMS_Areafix_Node_Links_Get
EMS_Areafix_Node_Links_Set	EMS_Areafix_Node_Links_Set
EMS_Areafix_Node_MatchGroup	EMS_Areafix_Node_MatchGroup

EMS_Areafix_Passivate	EMS_Areafix_Passivate
EMS_Areas	EMS_Areas
EMS_Areas_Imported	EMS_Areas_Imported
EMS_Areas_New	EMS_Areas_New
EMS_Area_Address	EMS_Area_Address
EMS_Area_BBS_File_Name	EMS_Area_BBS_File_Name
EMS_Area_BBS_File_Number	EMS_Area_BBS_File_Number
EMS_Area_BBS_Msg_Name	EMS_Area_BBS_Msg_Name
EMS_Area_BBS_Msg_Number	EMS_Area_BBS_Msg_Number
EMS_Area_Check	EMS_Area_Check
EMS_Area_Create	EMS_Area_Create
EMS_Area_Delete	EMS_Area_Delete
EMS_Area_File_AltPath	EMS_Area_File_AltPath
EMS_Area_File_DBname	EMS_Area_File_DBname
EMS_Area_File_Description	EMS_Area_File_Description
EMS_Area_File_Path	EMS_Area_File_Path
EMS_Area_FullFileName	EMS_Area_FullFileName
EMS_Area_Group_Level	EMS_Area_Group_Level
EMS_Area_Group_Name	EMS_Area_Group_Name
EMS_Area_HiMark	EMS_Area_HiMark
EMS_Area_IsLocal	EMS_Area_IsLocal
EMS_Area_IsPrivate	EMS_Area_IsPrivate
EMS_Area_Item_Delete	EMS_Area_Item_Delete
EMS_Area_Item_Delete_Marked	EMS_Area_Item_Delete_Marked
EMS_Area_Item_Flag	EMS_Area_Item_Flag
EMS_Area_Item_Header_AttachedFile	EMS_Area_Item_Header_AttachedFile
EMS_Area_Item_Header_Date_Created	EMS_Area_Item_Header_Date_Created
EMS_Area_Item_Header_Date_Received	EMS_Area_Item_Header_Date_Received
EMS_Area_Item_Header_Flag	EMS_Area_Item_Header_Flag
EMS_Area_Item_Header_From	EMS_Area_Item_Header_From
EMS_Area_Item_Header_Link_Down	EMS_Area_Item_Header_Link_Down
EMS_Area_Item_Header_Link_Up	EMS_Area_Item_Header_Link_Up
EMS_Area_Item_Header_Subject	EMS_Area_Item_Header_Subject
EMS_Area_Item_Header_To	EMS_Area_Item_Header_To
EMS_Area_Item_List	EMS_Area_Item_List
EMS_Area_Item_List_Flagged	EMS_Area_Item_List_Flagged
EMS_Area_Item_List_Marked	EMS_Area_Item_List_Marked
EMS_Area_Item_Mark	EMS_Area_Item_Mark
EMS_Area_KeepDups	EMS_Area_KeepDups
EMS_Area_KeepStats	EMS_Area_KeepStats
EMS_Area_Language	EMS_Area_Language
EMS_Area_Maint_Limit	EMS_Area_Maint_Limit
EMS_Area_Maint_Mode	EMS_Area_Maint_Mode
EMS_Area_Msg_AltPath	EMS_Area_Msg_AltPath
EMS_Area_Msg_DBname	EMS_Area_Msg_DBname
EMS_Area_Msg_Description	EMS_Area_Msg_Description
EMS_Area_Msg_Path	EMS_Area_Msg_Path
EMS_Area_NameFromNumber	EMS_Area_NameFromNumber
EMS_Area_NameFromPath	EMS_Area_NameFromPath
EMS_Area_NumOfDups	EMS_Area_NumOfDups
EMS_Area_PassThrough	EMS_Area_PassThrough
EMS_Area_Select	EMS_Area_Select
EMS_Area_TwoPassImport	EMS_Area_TwoPassImport
EMS_Area_Type	EMS_Area_Type
EMS_Area_UnsafeTick	EMS_Area_UnsafeTick
EMS_Calc_Stem_Width	EMS_Calc_Stem_Width
EMS_Cfg_Read	EMS_Cfg_Read

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EMS\_Cfg\_Write  
EMS\_CustomCfg\_Add  
EMS\_CustomCfg\_Delete  
EMS\_CustomCfg\_Flush  
EMS\_CustomCfg\_Free  
EMS\_CustomCfg\_Get  
EMS\_CustomCfg\_Search  
EMS\_CustomCfg\_Set  
EMS\_Database\_AutoMaint  
EMS\_Database\_Caches\_Free  
EMS\_Database\_Caches\_Load  
EMS\_Database\_Caches\_Update  
EMS\_Database\_Delete\_By\_Day  
EMS\_Database\_Delete\_By\_Num  
EMS\_Database\_Maint\_Internal  
EMS\_Database\_Names  
EMS\_Database\_Renum  
EMS\_Database\_Search  
EMS\_Domains  
EMS\_Do\_Choice\_Multi  
EMS\_Do\_Choice\_Single  
EMS\_Do\_Request  
EMS\_File\_Select  
EMS\_Flow\_Add  
EMS\_Flow\_Check  
EMS\_Flow\_Get  
EMS\_Flow\_Remove  
EMS\_FreeScriptData  
EMS\_FullAddress  
EMS\_Help  
EMS\_Item\_Alloc  
EMS\_Item\_Area  
EMS\_Item\_File\_Read  
EMS\_Item\_File\_Write  
EMS\_Item\_Free  
EMS\_Item\_Header\_Address\_From  
EMS\_Item\_Header\_Address\_To  
EMS\_Item\_Header\_AttachedFile  
EMS\_Item\_Header\_Date\_Created  
EMS\_Item\_Header\_Date\_Received  
EMS\_Item\_Header\_Edit  
EMS\_Item\_Header\_Flag  
EMS\_Item\_Header\_From  
EMS\_Item\_Header\_Link\_Down  
EMS\_Item\_Header\_Link\_Up  
EMS\_Item\_Header\_Subject  
EMS\_Item\_Header\_To  
EMS\_Item\_Line  
EMS\_Item\_Lines\_Count  
EMS\_Item\_Lines\_Delete  
EMS\_Item\_Lines\_Format  
EMS\_Item\_Lines\_Get  
EMS\_Item\_Lines\_Set  
EMS\_Item\_Line\_Add\_Head  
EMS\_Item\_Line\_Add\_Tail  
EMS\_Item\_Line\_Delete  
EMS\_Item\_Line\_Unique

EMS\_Cfg\_Write  
EMS\_CustomCfg\_Add  
EMS\_CustomCfg\_Delete  
EMS\_CustomCfg\_Flush  
EMS\_CustomCfg\_Free  
EMS\_CustomCfg\_Get  
EMS\_CustomCfg\_Search  
EMS\_CustomCfg\_Set  
EMS\_Database\_AutoMaint  
EMS\_Database\_Caches\_Free  
EMS\_Database\_Caches\_Load  
EMS\_Database\_Caches\_Update  
EMS\_Database\_Delete\_By\_Day  
EMS\_Database\_Delete\_By\_Num  
EMS\_Database\_Maint\_Internal  
EMS\_Database\_Names  
EMS\_Database\_Renum  
EMS\_Database\_Search  
EMS\_Domains  
EMS\_Do\_Choice\_Multi  
EMS\_Do\_Choice\_Single  
EMS\_Do\_Request  
EMS\_File\_Select  
EMS\_Flow\_Add  
EMS\_Flow\_Check  
EMS\_Flow\_Get  
EMS\_Flow\_Remove  
EMS\_FreeScriptData  
EMS\_FullAddress  
EMS\_Help  
EMS\_Item\_Alloc  
EMS\_Item\_Area  
EMS\_Item\_File\_Read  
EMS\_Item\_File\_Write  
EMS\_Item\_Free  
EMS\_Item\_Header\_Address\_From  
EMS\_Item\_Header\_Address\_To  
EMS\_Item\_Header\_AttachedFile  
EMS\_Item\_Header\_Date\_Created  
EMS\_Item\_Header\_Date\_Received  
EMS\_Item\_Header\_Edit  
EMS\_Item\_Header\_Flag  
EMS\_Item\_Header\_From  
EMS\_Item\_Header\_Link\_Down  
EMS\_Item\_Header\_Link\_Up  
EMS\_Item\_Header\_Subject  
EMS\_Item\_Header\_To  
EMS\_Item\_Line  
EMS\_Item\_Lines\_Count  
EMS\_Item\_Lines\_Delete  
EMS\_Item\_Lines\_Format  
EMS\_Item\_Lines\_Get  
EMS\_Item\_Lines\_Set  
EMS\_Item\_Line\_Add\_Head  
EMS\_Item\_Line\_Add\_Tail  
EMS\_Item\_Line\_Delete  
EMS\_Item\_Line\_Unique

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EMS_Item_Number	EMS_Item_Number
EMS_Item_Path_Get	EMS_Item_Path_Get
EMS_Item_Path_Set	EMS_Item_Path_Set
EMS_Item_SeenBy_Get	EMS_Item_SeenBy_Get
EMS_Item_SeenBy_Set	EMS_Item_SeenBy_Set
EMS_Item_Write	EMS_Item_Write
EMS_LastError	EMS_LastError
EMS_Log_Close	EMS_Log_Close
EMS_Log_Level	EMS_Log_Level
EMS_Log_Print	EMS_Log_Print
EMS_Nodes	EMS_Nodes
EMS_Node_Addressing	EMS_Node_Addressing
EMS_Node_Archiver	EMS_Node_Archiver
EMS_Node_Areafix_Alert	EMS_Node_Areafix_Alert
EMS_Node_Areafix_EchoList	EMS_Node_Areafix_EchoList
EMS_Node_Areafix_FileList	EMS_Node_Areafix_FileList
EMS_Node_Areafix_Name	EMS_Node_Areafix_Name
EMS_Node_Areafix_Notify	EMS_Node_Areafix_Notify
EMS_Node_Areafix_Pwd_In	EMS_Node_Areafix_Pwd_In
EMS_Node_Areafix_Pwd_Out	EMS_Node_Areafix_Pwd_Out
EMS_Node_AutoLink	EMS_Node_AutoLink
EMS_Node_CanCrash	EMS_Node_CanCrash
EMS_Node_CanCreateAreas	EMS_Node_CanCreateAreas
EMS_Node_Check	EMS_Node_Check
EMS_Node_Delete	EMS_Node_Delete
EMS_Node_Flavor	EMS_Node_Flavor
EMS_Node_Groups_Get	EMS_Node_Groups_Get
EMS_Node_Groups_Set	EMS_Node_Groups_Set
EMS_Node_Packet_Pwd_In	EMS_Node_Packet_Pwd_In
EMS_Node_Packet_Pwd_Out	EMS_Node_Packet_Pwd_Out
EMS_Node_Packet_Type	EMS_Node_Packet_Type
EMS_Node_PackSmallFiles	EMS_Node_PackSmallFiles
EMS_Search_In_Stem	EMS_Search_In_Stem
EMS_ShutDown	EMS_ShutDown
EMS_Sort_Stem	EMS_Sort_Stem
EMS_String_Select	EMS_String_Select
EMS_Switch_Delete	EMS_Switch_Delete
EMS_Switch_Global	EMS_Switch_Global
EMS_Switch_Local	EMS_Switch_Local
EMS_Tosser_Export	EMS_Tosser_Export
EMS_Tosser_Import	EMS_Tosser_Import
EMS_Tosser_PostImport	EMS_Tosser_PostImport
EMS_Tosser_Rescan	EMS_Tosser_Rescan
EMS_Tosser_Rescue	EMS_Tosser_Rescue
EMS_Tosser_TestRouting	EMS_Tosser_TestRouting
EMS_Translate_Stem	EMS_Translate_Stem
EMS_User_Add	EMS_User_Add
EMS_User_Address_Add	EMS_User_Address_Add
EMS_User_Address_Delete	EMS_User_Address_Delete
EMS_User_Address_List	EMS_User_Address_List
EMS_User_Comment	EMS_User_Comment
EMS_User_Delete	EMS_User_Delete
EMS_User_List	EMS_User_List
EMS_User_NameFromAddress	EMS_User_NameFromAddress
EMS_User_Nick	EMS_User_Nick
EMS_User_Select	EMS_User_Select
EMS_Var_Delete	EMS_Var_Delete

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EMS\_Var\_Global  
EMS\_Var\_Local  
EMS\_Version

EMS\_Var\_Global  
EMS\_Var\_Local  
EMS\_Version