

## EMAIX\$ - Send Electronic Mail (Extended)

The EMAIX\$ routine is an extended version of the more familiar EMAIL\$. It allows you to send electronic mail to a virtually unlimited (up to 32767) number of recipients, CCs, BCCs; and allows up to 32767 attachments.

### 1. Invocation

To send an e-mail using EMAIX\$ code:

```
CALL EMAIX$ USING ex flag
```

where *flag* is a PIC 9(4) COMP field or literal as described below; *ex* is the Extended Email Control Block defined as follows:

01	EX			
02	EXVERS	PIC 9(4) COMP		* Version number, must be 1
	VALUE 1			
02	EXSUBN	PIC 9(4) COMP		* Number of subject strings MUST BE 1
	VALUE 1			
02	EXSUBI	PIC 9(4) COMP		* Index of subject entry
02	EXTXTN	PIC 9(4) COMP		* Number of text strings MUST BE 1
	VALUE 1			
02	EXTXTI	PIC 9(4) COMP		* Index of text entry
02	EXRECN	PIC 9(4) COMP		* Number of recipients
02	EXRECI	PIC 9(4) COMP		* Index of 1st recipient entry
02	EXCCSN	PIC 9(4) COMP		* Number of CCs
02	EXCCSI	PIC 9(4) COMP		* Index of 1st CC entry
02	EXBCCN	PIC 9(4) COMP		* Number of BCCs
02	EXBCCI	PIC 9(4) COMP		* Index of 1st BCC entry
02	EXATTN	PIC 9(4) COMP		* Number of attachments
02	EXATTI	PIC 9(4) COMP		* Index of 1st attachment entry
02	EXENTS	OCCURS ??		* Table of parameters
03	EXELEN	PIC 9(4) COMP		* Length of parameter
03	EXEPTR	PIC PTR		* Pointer to parameter

The *flag* variable is a collection of bit-masks:

#01	0	the e-mail dialogue box is to always be displayed
#01	1	the e-mail dialogue box is only to displayed if there are no recipients
#02	0	no Read Receipt required
#02	1	Read Receipt required
#04		Reserved for future use
#08		Reserved for future use
#10		Reserved for future use
#20		Reserved for future use
#40		Reserved for future use
#80		Reserved for future use

The code in GX.EXE that sends the email uses the Simple MAPI interface. To check for the presence of the MAPI interface on the GX PC code:

```
CALL EMAIL$ * Use 0-parameter EMAIL$ (sic) call
```

### 2. STOP Codes and Exception Conditions

The following STOP codes may be generated by EMAIX\$:

<b>STOP code</b>	<b>Description</b>
13802	EMAIX\$ has been called by an application that is not running on GX.EXE.
13803	Illegal value in EXVERS (must be 1)
13804	Illegal value in EXSUBN (must be 1)
13805	Illegal value in EXTXTN (must be 1)
13806	Illegal value in EXRECN (must be between 0 & 32767)
13807	Illegal value in EXCCSN (must be between 0 & 32767)
13808	The total length of the GX command block has exceeded 8K.
13809	Illegal value in EXBCCN (must be between 0 & 32767)
13810	Illegal value in EXATTN (must be between 0 & 32767)

The following EXIT codes may be returned by EMAIX\$:

<b>EXIT code</b>	<b>\$\$COND</b>	<b>Description</b>
13804	4	Unable to allocate memory for temporary work buffer
13806	6	The MAPI interface is not available on the PC running GX.EXE.

13607	7	<p>GX has returned an error when sending the email. The error code from Simple MAPI is returned in \$\$CRES:</p> <pre> 0 SUCCESS_SUCCESS 1 MAPI_USER_ABORT 2 MAPI_E_FAILURE 3 MAPI_E_LOGIN_FAILURE 4 MAPI_E_DISK_FULL 5 MAPI_E_INSUFFICIENT_MEMORY 6 MAPI_E_ACCESS_DENIED 7 RESERVED 8 MAPI_E_TOO_MANY_SESSIONS 9 MAPI_E_TOO_MANY_FILES 10 MAPI_E_TOO_MANY_RECIPIENTS 11 MAPI_E_ATTACHMENT_NOT_FOUND 12 MAPI_E_ATTACHMENT_OPEN_FAILURE 13 MAPI_E_ATTACHMENT_WRITE_FAILURE 14 MAPI_E_UNKNOWN_RECIPIENT 15 MAPI_E_BAD_RECIPTYPE 16 MAPI_E_NO_MESSAGES 17 MAPI_E_INVALID_MESSAGE 18 MAPI_E_TEXT_TOO_LARGE 19 MAPI_E_INVALID_SESSION 20 MAPI_E_TYPE_NOT_SUPPORTED 21 MAPI_E_AMBIGUOUS_RECIPIENT 22 MAPI_E_MESSAGE_IN_USE 23 MAPI_E_NETWORK_FAILURE 24 MAPI_E_INVALID_EDITFIELDS 25 MAPI_E_INVALID_RECIPS 26 MAPI_E_NOT_SUPPORTED </pre>
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### 3. Programming Notes

EMAIX\$ is only available when running on GX.EXE. Any attempt to use EMAIX\$ on any other terminal will result in a STOP code. Note that unlike EMAIL\$, EMAIX\$ is **not** supported on GSMWIN32.EXE. EMAIX\$ is only supported on GX V4.5o, or later.

EMAIX\$ uses the Simple MAPI interface. An email client which supports Simple MAPI **MUST** be installed on the GX PC. Note that the Extended MAPI interface is not currently supported.

The %XPPDF string can be used to specify the folder used by GX.EXE when creating a PDF file using the Extended PF Printing option (see Technical Note IN343). **Important Note:** The Extended PF Print operation and the subsequent call to EMAIX\$ must be performed in the same partition.

It is possible to request a Read Receipt. The return of a Read Receipt will depend on the email settings of recipients email client. Note that is it not possible to request a Delivery Receipt programmatically.

EMAIX\$ supports the same Intercept Routine facility available with EMAIL\$ (see email\$.doc for full details).

The fixed EMAIL\$ control block (see email\$.doc) imposes the following limits:

Number of attachments	20
Number of recipients	10
Number CCs	10

Number of BCCs            10

EMAIX\$ allows a virtually unlimited (up to 32767) numbers of attachments, recipients, CCs and BCCs. When multiple attachments, for example, are declared the index of the 1<sup>st</sup> attachment (within the EXENTS array) must be set in EXATTI and the total number of attachments in EXATTN. All attachments must be declared in consecutive entries in the EXENTS array.

The following code to initialise the EMAIX\$ EX control block emulates a fully populated EMAIL\$ EM control block:

```

MOVE 10 TO EXRECEN            * 10 recipients
MOVE 1 TO EXRECI            * from index 1
MOVE 1 TO EXSUBN            * Single subject text parameter
MOVE 11 TO EXSUBI           * at index 11
MOVE 1 TO EXTXTN            * Single email body (text) parameter
MOVE 12 TO EXTXTI           * at index 12
MOVE 20 TO EXATTN           * 20 attachments
MOVE 13 TO EXATTI           * from index 13
MOVE 10 TO EXCCSN           * 10 CCs
MOVE 33 TO EXCCSI           * from index 33
MOVE 10 TO EXBCCN           * 10 BCCs
MOVE 43 TO EXBCCI           * from index 43

```

Of course, further code must then initialise EXELEN(1) to EXELEN(52); and EXEPTR(1) to EXEPTR(52).

#### **4. Examples**

[EXAMPLE REQUIRED]

#### **5. Copy-Books**

None.

#### **6. See Also**

EMAIL\$        Send Electronic Mail (restricted).