EXTRA$ - Provide Extra Functionality

The EXTRA$ routine is currently reserved for future use.

1. Invocation

The EXTRA$ routine is called as follows:

```
CALL EXTRA$ USING ex
```

where *ex* is a control block of the following format:

```
01    EX
  02   EXVERS      PIC 9(4) COMP          * Control block version number
       VALUE       1                      * Must be 1
  02   EXFUNC      PIC 9(4) COMP          * Requested function number
  02   EXHIGH      PIC 9(4) COMP          * Returned highest function no
  02   EXREST      PIC X(1024)            * Reserved for future use, see below
```

2. STOP Codes and Exception Conditions

The following STOP codes may be generated by EXTRA$:

STOP code	Description
14313	Invalid control block version number. EXVERS does not contain 1.

The following exception conditions may be returned by EXTRA$:

EXIT code	$$COND	Description
14310	10	Function number too high.
14311	11	Function not supported.

3. Programming Notes

EXTRA$ is only available for GSM SP-35, and later. EXTRA$ is currently reserved to provide extra functionality in future GSM service packs in a manner that will prevent load-time Resolver Errors if the run-time GSM service pack doesn't support the required extra function(s).

The only function supported in GSM SP-35 is:

Func' no. in EXFUNC	Function description
0	Return highest supported function in EXHIGH.

For GSM SP-36, the following additional function(s) are supported:

Func' no. in EXFUNC	Function description
1	Get extra information from GX
2	Apply Percent Encoding (GXPCE$)

If EXFUNC is set to 1 the EXREST extension is redefined as follows:

```
01    FILLER REDEFINES EXREST
  02  EXMODE      PIC 9(4) COMP        * Function mode
  02  EXPTR       PIC PTR              * Pointer to buffer area
```

The following modes are supported in EXMODE:

Mode no. in EXMODE	Function description
1	Get time zone (GXGTZ$)
2	Get MAC addresses (GXMAC$)
3	Get IP address (GXGIP$)
4	Get screen size (GXGSS$)
5	Get GX main window size (GXGWS$)
6	Get Windows OS version (GXGOS$)
7	Get computer name (GXGKN$)
8	Get device manufacturer (GXGD1$)
9	Get device model (GXGD2$)

All other values for EXMODE are invalid and will produce very unpredictable results.

If EXFUNC is set to 2 the EXREST extension is redefined as follows:

```
01    FILLER REDEFINES EXREST
  02  FILLER      PIC 9(4) COMP     * Not used
  02  EXSTR1      PIC PTR           * Pointer to input string
  02  EXSTR2      PIC PTR           * Pointer to output string
  02  EXSTR3      PIC PTR           * Pointer to optional exception string
                                    * or HIGH-VALUES if no exceptions
```

For GSM SP-37, the following additional function(s) are supported:

Func' no. in EXFUNC	Function description
3	Obtain Pathname of file Received from Bluetooth (GXBTT$)

If EXFUNC is set to 3 the EXREST extension is redefined as follows:

```
01    FILLER REDEFINES EXREST
  02  EXDATE      PIC X(10)         * Date for GXBTT$
  02  EXTIME      PIX X(8)          * Time for GXBTT$
  02  EXPTR       PIC PTR           * Pointer to GXBTT$ receive buffer
```

4.   Examples
[EXAMPLE REQUIRED]

5.   Copy-Books
None.

6.   See Also

GXGTZ$ Get Time Zone information from the GX PC
GXMAC$ Get MAC Address information from the GX PC
GXGIP$ Get IP Address information from the GX PC
GXGSS$ Get Screen Size information from the GX PC
GXGWS$ Get Window Size information from the GX PC
GXGOS$ Get Windows O/S information from the GX PC
GXGKN$ Get Computer Name information from the GX PC
GXGD1$ Get Device Manufacturer information from the GX PC
GXGD2$ Get Device Model information from the GX PC
GXBTT$ Obtain Pathname of file Received from Bluetooth