

XFER\$ - Export/Import RSAM File to Windows

The XFER\$ routine can be used to export an RSAM file to a Windows file; and re-import the Windows file back to an RSAM file. The Import function is not a generic Windows to GSM file copy but can only be used to re-import the fixed-format Windows file created by the Export option.

1. Invocation

To transfer an RSM file to/from Windows file code:

```
CALL XFER$ USING xf
```

where *xf* parameter is a control block of the following format:

01	XF			* CONTROL BLOCK VERSION NUMBER
02	XFVERS	PIC 9(4)	COMP	* MUST BE 1
02	XFMODE	PIC 9(2)	COMP	* DIRECTION OF TRANSFER
				* 0 = RSAM TO WINDOWS (EXPORT)
				* 1 = WINDOWS TO RSAM (IMPORT)
02	XFFILE	PIC X(8)		* GLOBAL FILE NAME
02	XFUNIT	PIC X(3)		* GLOBAL UNIT
02	XFRLN	PIC 9(4)	COMP	* RSAM FILE LENGTH
				* (ONLY REQUIRED FOR IMPORT MODE)
02	XFSIZE	PIC 9(9)	COMP	* RSAM FILE SIZE
				* (ONLY REQUIRED FOR IMPORT MODE)
02	XFWINF	PIC PTR		* POINTER TO WINDOWS FILE NAME
02	XFFLAG	PIC 9(2)	COMP	* OVERWRITE FLAG
				* 0 = ALWAYS OVERWRITE EXISTING FILE
				* 1 = NEVER OVERWRITE EXISTING FILE
				* 2 = PROMPT TO OVERWRITE
				* 3 = APPEND TO EXISTING FILE
02	XFCLOSE	PIC 9(2)	COMP	* MODE USED TO CLOSE RSAM FILE
				* (ONLY REQUIRED FOR IMPORT MODE)
				* 0 = CLOSE (NORMAL)
				* 1 = CLOSE TRUNCATE
02	XFSHARE	PIC 9(2)	COMP	* RESERVED FOR FUTURE USE
02	XFLINE	PIC 9(4)	COMP	* LINE NUMBER FOR FADEL\$ WINDOW
02	XFCOL	PIC 9(4)	COMP	* COLUMN NUMBER FOR FADEL\$ WINDOW
02	XFDELE	PIC 9(2)	COMP	* 0 = NO SPECIAL ACTION
				* 1 = DELETE WINDOWS FILE AFTER IMPORT
02	XFFILL	PIC X(16)		* FILLER - RESERVED FOR FUTURE USE

2. STOP Codes and Exception Conditions

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

STOP code	Description
1	Invalid Control Block version (XFVERS > 1)
2	Invalid Transfer Mode value (XFMODE > 2)
3	Invalid Overwrite Flag value (XFFLAG > 3)

4	Invalid Close flag value (XFCLOSE > 1)
5	Record length is greater than 1024.
6	Invalid Overwrite Flag value
7	Invalid RSAM Record length (in XFRLEN)

The following exception conditions may be returned by XFER\$:

EXIT code	\$\$COND	Description
1	1	Unable to open existing RSAM file
2	2	Unable to create Windows file
3	3	Windows file already exists
4	4	User has selected not to delete the existing Windows file
5	5	Unable to delete existing Windows file
6	6	Error writing to Windows file
7	7	Unable to open existing Windows file
8	8	Record length of existing RSAM file does not match requested record length (append mode only)
9	9	Record length of existing RSAM file is greater than 1024 (append mode only)
10	10	RSAM file already exists

11	11	User has selected not to delete the existing RSAM file
12	12	Unable to delete existing RSAM file
13	13	Unable to create new RSAM file
14	14	End-of-line marker not found in Windows file
15	15	Malformed end-of-line marker in Windows file
16	16	Windows file has invalid logical record length
17	17	Windows logical record length is longer than requested RSAM record length
18	18	Error writing to RSAM file
19	19	Windows file is corrupt
20	20	Unexpected error reading from Windows file
21	21	Unable to delete Windows file after import

3. Programming Notes

The XFER\$ Export option appends a CR, LF combination to each RSAM record when writing to the Windows file. Each RSAM record is expected to consist of ASCII characters only (i.e. only PIC X(n) character fields; or Display Numeric fields should be defined in the RSAM Record layout). Thus, the corresponding Windows file is a text-file that can be inspected using standard tools such as Notepad etc. **However, not all Windows text-files can be imported using the XFER\$ Import option (see below).**

The XFER\$ Import option can only be used to import from the rigid-format, fixed record-length Windows text-files created by the XFER\$ Export option. (In theory, the XFER\$ Import option could be used to import a Windows text-file created by Notepad etc. but such a text-file must be created **very carefully** i.e. with fixed-length lines terminated by a CR/LF combination). If the notional record length of the Windows file (i.e. the text-length without the CR/LF end-of-line characters) is shorter than the RSAM record-length, each RSAM record will be padded with trailing SPACE characters. If the notional record length of the Windows file is longer than the RSAM record-length an exception will be returned.

4. Examples

[EXAMPLE REQUIRED]

5. Copy-Books

None.

6. See Also

FADEL\$	Display standard "File Already Exists, Delete?" message
EX-RS\$	Simple Export Relative Sequential File to Windows
IM-RS\$	Simple Import Relative Sequential File from Windows