

Global User Exits

This section covers the following topics:

- Introduction
- Global JCL Activation Exit
- Global Symbol Modification Exit
- Global 'Symbol Not Found' Exit
- Global Job Submission Exit

Introduction

- Each global user exit may exist only once within the whole Entire Operations installation.
- All global user exits are optional.
- The exits must reside as Natural objects in any defined steplib.
- You can specify a user exit to be submitted for every JCL card submitted by Entire Operations.

Mark the field labelled Global User Exits in the Default Setting (1) screen and press Enter to display the following screen:

```

20.11.01          *** Entire Operations 4.1.1 ***          16:05:38
  Owner GHH              Global User Exits (optional)
-----
                                Exit Name  Type
JCL Activation           _____
Symbol Modification      _____
Symbol Not Found        SYNFSN1
Job Submission           _____   _   A Assembler   N Natural

Please note the possible overhead being created by the user exit usage.

Command => _____
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help           End           Save                               Menu

```

The following global user exits can be defined:

- Global JCL Activation Exit
- Global Symbol Modification Exit
- Global 'Symbol Not Found' Exit
- Global Job Submission Exit

Global JCL Activation Exit

- Function
- Parameter List
- Return Codes

Function

If specified, this exit will be used for each job activation by Entire Operations.

The exit must be coded as a Natural subprogram. It is possible to modify almost all fields which describe the JCL location.

Note: You must set P-RC := 1 to make the modifications valid.

The modifications are effective only for the current run, but not for the job's master definition.

Parameter List

The parameter list is named AJCLX1-A and is available on the Entire Operations library.

Please include it into the exit with:

```
DEFINE DATA PARAMETER USING AJCLX1-A
```

Return Codes

P-RC	Meaning
0	OK, no modification of the JCL location.
1	OK, JCL location was modified by exit.
other	Access to JCL file denied, or other problem. In this case, the JCL load for the given job will be interrupted.

Global Symbol Modification Exit

- Function
- Parameter List
- Return Codes

Function

User-defined symbols may be modified and plausibility checks carried out during a job network activation.

If defined, this exit will be invoked during the activation of all job networks for which no specific symbol prompting or modification exit was defined.

In the case of user-defined map(s) and plausibility checks during the symbol prompting for a job network activation, the symbols must be read and updated by the EOR API routine NOPUSY4N.

This API routine also allows sequential reading in the active symbol table.

See also Symbol Modification without Prompting.

Parameter List

The user routine is to be written as a Natural subprogram and must use the supplied parameter list NOPSYP-A. This parameter list contains all environment parameters needed.

A list of symbol tables used for this network activation will be passed.

Return Codes

P-RC	Meaning
0	OK, modifications were done.
1	OK, no symbols prompted or modified.
2	Activation cancelled.
3	(on input) Rewrite modified symbols to master symbol table.

Global 'Symbol Not Found' Exit

- Function
- Parameter List
- Return Codes

Function

This exit is invoked during the activation of all job networks for which no specific symbol prompting or modification exit was defined and symbol search failed within the existing hierarchy.

All actions of this exit will be logged.

Parameter List

For this exit, the common exit parameter list NOPXPL-A is used. The field P-CALL-PLACE contains 'SNF'.

Return Codes

P-RC	Meaning
0	Exit returned another symbol value.
1	Accept that the symbol is missing; skip replacement.
2	Use another symbol instead. The returned symbol value will be preceded by the current escape character and followed by a dot, which will be used as a wildcard. This causes a new symbol replacement with the returned symbol.
3	Exit returns 'symbol not found'. The symbol replacement is not successful.

Global Job Submission Exit

Notes:

This exit is obsolete and should no longer be used.

The exit works only for submission on mainframe operating systems (OS/390, VSE/ESA, BS2000/OSD).

- Function
- Parameter List
- Return Codes

Function

If specified, this exit will be activated for each JCL card submitted by Entire Operations.

The exit may be coded in:

- Assembler: It must be linked to the Entire Operations batch Natural for the monitor.
- Natural: It must exist as catalogued subprogram in the Entire Operations system library or any defined steplib.

Parameter List

The parameter list is the same for invoking Assembler and Natural.

Field	Format	Explanation
OWNER	A10	Owner
NETWORK	A10	Network
JOB	A10	Job
SUBMIT-LINE-NUMBER	P7	Number of the current line (starting with 1)
LINE	A80	The current line
INSERTED-LINE	A80	An additional line, returned by the exit. If not empty, it will be inserted after the current line.

Return Codes

None.