

Importing Objects

This section covers the following topics:

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- Import Information
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Invoking the Import Objects Window

 **To import objects**

1. Enter **1** in the Option field of the Import/Export Main Menu.

The Import Objects window opens:

```

20.11.01      *** Entire Operati +-----+
                                           !
-----+-----+-----+-----+-----+-----+-----+-----+-----+
Option ==> 1  !                                     - Import Objects - !
                                           !
                                           !   From: !
                                           !   Location  ==> NAT !
1  Import Objects !   Library   ==> _____ !
2  Export Objects !   Member    ==> _____ (Prefix) !
3  Export whole enviro !   Initial Mode ==> A !
4  Export to EOR View !                                     !
                                           !   Owner      ==> _____ !
                                           !   Network    ==> _____ !
                                           !   Job        ==> _____ !
                                           !                                     !
                                           !   Stop after ==> 5____ errors !
                                           !           or ==> 10____ warnings !
                                           !   Keyword Gap ==> 5____ lines !
                                           !                                     !
                                           !   Display parsing information ==> N !
                                           !                                     !
Enter-PF1---PF2---PF3---PF4---PF5- !   Enter-PF1---PF2---PF3---PF4---PF5---PF6- !
                                           !   Help      End      Imprt !
                                           +-----+
                                           !
End
    
```

The values you enter in this window determine the conditions for the importing process.

Field Descriptions: Import Objects

Field	Description
Location	The location of the file which should be imported. Possible values:
	NAT Import from Natural text member. See also fields Library and Member.
	PC Import from a PC file. Entire Connection must be installed and the desired PC file must be assigned to work file 7.
	WRK Import from work file. Work file 1 is used.
Library	Only for Location NAT. Enter the name of the library, where the Natural members reside. Leave this field blank, if the location is not NAT.
Member	Only for Location NAT. Enter the prefix of the Natural member you want to import. Leave this field blank, if the location is not NAT.
Initial Mode	Enter the mode which should be used as default mode when starting the import process. The mode can change during import, if the file contains mode commands. Possible values:
	C Check the file.
	A Add the definitions from the file to the NOP database.
	U Update the definitions in the database with the definitions within the file.
	D Delete the object specified in the file from the database.
Owner Network Job	These fields can be used to define a range of objects to be imported from the import file. Notes: <ol style="list-style-type: none"> 1. If you use a wildcard *, no selection is made, but a range is specified. For example, enter TEST* to specify the range TEST through TESTZZZZZZ. 2. A selection on a lower level is accepted only if exactly one object is selected on the higher level (i.e. if you have not already used a wildcard). 3. Selections cannot be verified against the target data base, since they usually do not exist there. If nothing can be imported, check your selections. 4. The selection is valid for all objects in the import file which contain Owner, Network and Job within their key fields.
Stop after ... errors	Enter number of errors which can occur before terminating the import process. Valid range is 1 through 99999 . Default is 5 .
or ... warnings	Enter number of warnings which can occur before terminating the import process. Valid range is 1 through 99999 . Default is 10 .
Keyword Gap	Enter the number of lines, within which the next keyword is expected.
Display parsing information	If you enter Y here, a window appears during the import process, which informs you about the current object type, name of object, parsed keyword, value, format, length and line. If you enter N , the window displays, simply: Please wait . The import process is much faster with N .

All values entered are checked for their validity. If a Natural member is specified as import file, file existence is also checked.

2. Press PF3 (End) to cancel the import.
3. Press PF5 (Imprt) to perform the import.

Error Handling during Import

If at least one error occurs within the object, the whole object is rejected. Errors and warnings are counted for single objects during the import. If the error or warning limit is reached, the whole import is cancelled.

Whenever an object is rejected, it is saved with prefix ERR- and an ascending number (ERR-0001, ERR-0002, ...). These members contain the rejected object and the errors which caused the rejection. The error text is written directly above the line which contains the error.

Note:

You have to specify a NAT library name for storing these members. Otherwise, errors are only protocolled in the job log.

In addition, a header is written to the member informing you about the:

- Number of errors or warnings in this object;
- User who started the import;
- Date and time when the object was rejected.

You can edit these error members manually and reimport them again.

Error Severity

There are 3 levels of error severity:

- **Warnings**
Warnings are displayed, but do not cause the rejection of the object.
- **Errors**
Errors cause rejection of the object but do not cause termination of the import. Import continues with the next object within the file, if the error/warning limit has not been reached.
- **Fatal errors**
Fatal errors are serious problems which cannot be ignored and cause immediate termination of the import. A fatal error occurs, for example, when it is impossible for the parser to continue at a new point.

Causes of Errors

- Syntax Errors
- Logical Errors

If errors or warnings occur during import, some of the possible causes could be, for example:

Syntax Errors

- A value has invalid format.
- A character in a numeric field.
- A keyword was invalid or non existing.
- The value of a field exceeds valid length.
- A non-existing object type was specified.

These errors should not occur when importing an **unchanged** exported member. If you **edit** the exported member online or **create** a new member manually, these errors could occur.

Logical Errors

- Value has correct syntax but does not meet the requirements of Entire Operations.
- A Job type is specified, which is not allowed in Entire Operations.
- The field has a special range (e.g. only **Y** or **N**).
- Adding an object to Entire Operations which already exists.
- Deleting a non-existing object.

Import Information

During the import, a window opens which informs you about the imported objects.

This window displays number, name and type of the imported object, the mode which was used for this object, the amount of lines the object had, the time needed to import the object, the status (accepted or failed), name of error member (if the object was rejected).

Additionally the total elapsed time, total number of lines, total number of errors/warnings occurred is shown in the window. This window shows only least information about the last ten processed objects. The screen scrolls automatically forward.

Do not press a key while the import is running. When the import is finished, a message appears which informs you whether or not the import ended successfully.

The import ended successfully, if all objects were processed and the error/warning limit was not exceeded. If this was not the case, the import was cancelled due to too many errors or warnings.

Additional Remarks

- For end-of-job checks ADD and UPDATE mode are the same. Only when an end-of-job check with same data already exists is a warning issued.
- When updating periodic groups or multiple fields, all fields which build the periodic identifier of the new group are compared with all entries of the group in the database. If no entry with same identifier exists, the new group is added, otherwise the existing group is modified.
- No value field should contain any keyword followed by an equal sign (<**keyword**>=) or a periodic group identifier. This would cause an error because the parser would assume that the value is a keyword. For example:

```

OBJECT=JOB-MASTER
JOB=NETWORK=
. . . .
```

would cause an error because NETWORK is a keyword.

- The parser also detects, if a field occurred more than once within a periodic group. For example:

```

. . .
PG
PGFIELD-XY=ONCE   PG-FIELD-XY=TWICE
```

would cause an error because periodic group field PGFIELD-XY occurred twice.

- The fields MOD-USER and MOD-TIME are always accepted but replaced with MOD-USER = IMPORT and MOD-TIME =<time when import was performed>.
- The keyword MODE can occur anywhere in the file.
- The keyword OBJECT must be immediately followed by an equal sign = and the name of the object type.
- No record within the file should exceed 240 bytes.
- Numeric values are accepted with up to 2 decimals. Using more digits is no error. For example:

```
.....  
NUM=1234.5678  
.....
```

returns 1234.56 for field NUM.

- For all periodic groups or multiple fields the array limits of SYSEOR must be respected.
- If a network is to be imported with MODE=ADD and the owner of this network is not yet included in the GRANT field, he/she is automatically added to the authorized persons.
- The parser always registers, if a keyword, which does not belong to a multiple field or periodic group, occurred more than once within the object. If so, it is an error.
- Deleting networks or jobs might take a while because deletion is performed by the Entire Operations Monitor.
- If you are importing JCL without specifying a member name, a new member name is generated. The name has the prefix JCL- and a unique number as suffix (e.g.: JCL-0011). (Import mode DELETE for object type JCL is not currently implemented.)
- During the import process every attempt to import an object is logged in the SYSEOR-Log. This can be analyzed with the Entire Operations online system.



Warning:

You should use the import function with care. It can delete definitions from or add definitions to your database.