

Processing Status and Error Notification

This section describes possible reasons for object rejection during function processing, the status messages displayed after processing, and error notification during processing.

- Object Rejection and Reasons
 - Status Messages
 - SYSMAIN Error Notification
-

Object Rejection and Reasons

If, during the execution of a SYSMAIN function, one or more objects were found to satisfy the specified selection criteria, but some or all of these objects were then rejected for further processing, any of the following Natural system errors occurs:

```
4867:Nothing found for this request.  
4810:All data rejected by these selection criteria.  
4893:Normal completion, but some data were rejected.
```

You can use the SYSMAIN command TOTAL (see *Special Commands issued to SYSMAIN*) to review the specific status of a request.

Possible reasons for object rejection are described in the following section:

- Invalid Object Type, Date/Time, User or Terminal
- Identical Target Name
- XREF and User Exits
- No Short or Extended Error Message
- Library Restrictions

Invalid Object Type, Date/Time, User or Terminal

- An object was selected and then rejected because the object type was not valid for the type of processing specified. For example, when processing programming objects, all maps are rejected if processing has been restricted to objects of the type program or subroutine.
- An object was selected and then rejected because the date or time on which the specified object was saved or cataloged did not fall within the date or time range specified.
- An object was selected and then rejected because the user ID or terminal ID by which the specified object was saved or cataloged did not match with the user ID or terminal ID specified.
- A cataloged object was selected and then rejected because the profile parameter RECAT was set to ON and there was no saved (source) object corresponding to the cataloged object. See also: *Using Profile Parameter RECAT*.

- A saved (only) object was selected and then rejected because the profile parameter RECAT was set to ON and the target environment already contained a cataloged object with the same name. See also: *Using Profile Parameter RECAT*.

Identical Target Name

- An object was selected and then rejected because the target environment already contained an object identified by the same name, and the replace option was not activated (**Replace** field set to N or keyword REPLACE not specified).
- A cataloged programming object of type S (subroutine) was selected and then rejected because the name of the external subroutine was identical to the name of another subroutine in the target library.
- A cataloged programming object of type 4 (class) was selected and then rejected because the name of the external class was identical to the name of another class in the target library.

XREF and User Exits

- The XREF option was activated (**XREF** field *not* set to N or keyword XREF specified) and there were no XRef data for the programming object specified.
- A user exit routine was active and a non-zero return code was returned during processing of the object.

No Short or Extended Error Message

- An extended (long) error message was selected and then rejected because there was no corresponding short error message in the source library.
- An extended (long) error message was selected but could not be processed because there was no corresponding short error message in the target environment.
- A short error message was selected to be moved, deleted or renumbered, but could not be processed because the corresponding extended error text was not included in the selection criteria. An extended error message must always have a corresponding short error message.

Library Restrictions

- A library was specified which is controlled by Predict Application Control/Predict Application Audit, and the object cannot be handled by SYSMAIN.

Status Messages

The table below describes the status messages that can be displayed in the **Message** column of a **Selection** screen or in a batch report (see also *Online Report Mode*) after a SYSMAIN function was performed on an object. For the line commands mentioned, refer to *Selection Lists* in the object-type specific sections of the SYSMAIN documentation.

Message	Explanation	Function completed?
Class Exists	Only applies to programming objects. The cataloged object of a class had an external class name already used by another cataloged object of a class in the target environment.	No
Copied	One of the following line commands was executed from a Copy/Rename Selection screen: A, or A, C or S for programming objects, or A, E or S for error messages, or A, D, E, M or P for profiles.	Yes
DB Error: <i>nnn</i>	A database error was returned for the object during processing.	No
Deleted	One of the following line commands was executed from a Delete Selection screen: A, or A, C or S for programming objects, or A, E or S for error messages, or A, D, E, M or P for profiles.	Yes
Dev exists	Only applies to profiles. The replace option was set to N and line command A or D was executed from a Copy/Move/Rename Selection screen. The device profile with the same name in the target environment was <i>not</i> replaced.	No
Directory	Line command I (display directory) was executed from a Selection screen.	Yes
Edt exists	Only applies to profiles. The replace option was set to N and line command A or E was executed from a Copy/Move/Rename Selection screen. The editor profile with the same name in the target environment was <i>not</i> replaced.	No
Err: NAT2999	Only applies to programming objects. A cataloged object was being processed with the XREF option set to F. No Predict entry exists on the FDIC system file specified for the object.	No
Err: NAT4852	A Natural Security violation occurred.	No
Exit: <i>nnn</i>	A user exit routine was active and a non-zero return code was returned by the exit (<i>nnn</i> = the return code). See also <i>User Exit Routines</i> .	No
Exported	Only applies to programming objects and DDMs. Line command X (PC download) was executed on a source object from a Selection screen.	Yes

Message	Explanation	Function completed?
Ext Exists	<p>Only applies to error messages.</p> <p>An attempt has been made to delete only the short error message of an error message for which an extended (long) error exists. This would have resulted in an extended (long) error message with no corresponding short message. This is not permitted in Natural.</p>	No
File Listed	<p>Only applies to rules.</p> <p>Line command F (display DDMs/fields) was executed on an automatic rule from a Selection screen.</p>	Yes
In Use	An Adabas response code 145 was returned during Natural UPDATE/READ processing of an object.	No
Invalid	<p>Only applies to debug environments.</p> <p>An invalid line command was entered for one of the debug environments listed on a Selection screen.</p>	No
Listed	<p>Not applicable to DDMs and debug environments.</p> <p>Line command L (display source code) was executed from a Selection screen.</p>	Yes
Map exists	<p>Only applies to profiles.</p> <p>The replace option was set to N and line command A or M was executed from a Copy/Move/Rename Selection screen. The map profile with the same name in the target environment was <i>not</i> replaced.</p>	No
Moved	<p>One of the following line commands was executed from a Move Selection screen:</p> <p>A, or A, C or S for programming objects, or A, E or S for error messages, or A, D, E, M or P for profiles.</p>	Yes
Must be Auto	<p>Only applies to rules.</p> <p>Line command F (display DDMs/fields) was executed on a free rule from a Selection screen. Line command F can only be executed on automatic rules.</p>	No
Name Erro	<p>Only applies to debug environments.</p> <p>The rename function was used, but the new name specified was found to be invalid. Either no new name was specified for the selection, or the specified name either contained invalid special characters or did not start with an alphabetic character.</p>	No

Message	Explanation	Function completed?
NBP Deleted or Ignored	Only applies to programming objects. Line command B (delete object from buffer pool) was executed from a Selection screen. The message returned upon completion of processing is either NBP Deleted or Ignored, depending on whether deletion from the buffer pool for the specified object(s) has been confirmed or not.	Yes/No
No Lang 1	Only applies to error messages. Only language code 1 (English) is available for Natural system extended (long) error messages. An attempt has been made to copy a Natural system extended error message, and language code 1 has not been specified as a language.	No
no Short Err	Only applies to error messages. An extended (long) error message was selected for further processing, but the target error message number has no corresponding short error message.	No
No Xref	Only applies to programming objects. A cataloged object was being processed and the XREF option was set to Y or F. No XRef data exists on the FDIC system file specified for the object.	No
Not Found	Only applies to error messages and profiles. An error in the update logic occurred during processing and the requested error message or profile could not be found. This implies that the specified error message or profile was deleted in the time between selection and update.	No
Not Replaced or Not Repld	The replace option was set to N and one of the following line commands was executed from a Copy/Move/Rename Selection screen: A, or A, C or S for programming objects, or A, E or S for error messages, or A, D, E, M or P for profiles. The object with the same name in the target environment was <i>not</i> replaced.	No
Parm exists	Only applies to profiles. The replace option was set to N and line command A or P was executed from a Copy/Move/Rename Selection screen. The parameter profile with the same name in the target environment was <i>not</i> replaced.	No

Message	Explanation	Function completed?
Printed	<p>Only applies to programming objects and rules.</p> <p>Line command H (produce hardcopy) was executed from a Selection screen.</p>	Yes
Renamed or Copied	<p>Only applies to debug environments and error messages.</p> <p>One of the following line commands was executed from a Rename Selection screen: A for debug environments, or A, E or S for error messages.</p> <p>The message returned upon completion of processing is either Renamed or Copied depending on whether the option to retain the original object was specified.</p>	Yes
Renamed as or Copied as	<p>Only applies to programming objects.</p> <p>Line command A, C or S was executed from a Rename Selection screen. The message returned upon completion of processing is either Renamed as or Copied as, depending on whether the option to retain the original object was specified.</p>	Yes
Replaced	<p>The replace option was set to Y and one of the following line commands was executed from a Copy/Move/Rename Selection screen:</p> <p>A, or A, C or S for programming objects, or A, E or S for error messages, or A, D, E, M or P for profiles.</p> <p>The object with the same name in the target environment was replaced.</p>	Yes
Sized	<p>Only applies to programming objects.</p> <p>Line command Z (calculate size) was executed from a Selection screen.</p>	Yes
Subrtn Exists	<p>Only applies to programming objects.</p> <p>The cataloged object of a subroutine had an external subroutine name already used by another cataloged subroutine in the target environment.</p>	No
Updated	<p>Only applies to error messages.</p> <p>The text in the specified language did not previously exist for the error message selected, and SYSMAIN has updated the error message with the new language text.</p>	Yes

Message	Explanation	Function completed?
Src locked	<p>Only applies to programming objects.</p> <p>Line command A or S was executed from a Copy/Move/Rename/Delete Selection screen.</p> <p>The object was <i>not</i> processed because the source of the respective object was being locked.</p>	No

SYSMAIN Error Notification

SYSMAIN always attempts to recover in the event of a runtime error during processing. This feature is automatically activated and uses the system variable *ERROR-TA (see also **ERROR-TA* in the *System Variables* documentation). This feature is deactivated when SYSMAIN is terminated normally.

If a terminal command (see also %% and % - *Interrupt Current Operation* in the *Terminal Commands* documentation) is used to terminate SYSMAIN, this is considered an abnormal termination, and the *ERROR-TA system variable is not reset. It can be reset by re-invoking SYSMAIN and terminating it normally. In the event that you have set the *ERROR-TA system variable, SYSMAIN resets it to its previously assigned value upon termination.

If invalid data has been specified with respect to the selection criteria, an error message is displayed in the message line. If you are uncertain as to the meaning of the short error message, the special command DISPLAY (see also *Special Commands Issued to SYSMAIN*) can be entered to activate a display of the corresponding extended (long) error message text.

This section covers the following topics:

- Data Entry Errors
- Processing Errors

Data Entry Errors

If invalid data has been specified with respect to the selection criteria, an error message is displayed in the message line. In some situations the online help facility for particular entries is invoked. This feature provides you with more detailed information on the error.

If an error occurs in batch mode, an error message and corresponding error number are printed and the SYSMAIN utility is terminated.

Processing Errors

If you make a request which causes a processing error, SYSMAIN issues an error report as shown in the example below:

```

16:51:08          *** SYSMAIN Error Report ***          2005-08-10

The following internal error occurred while processing the
SYSMAIN function xxxxxx (cc):

    Error in field specification for IF SELECTION statement.

Error Number .. eeee
Program ..... pppppppp
Status Code ... s           Status ..... tttttttt
Line ..... 1111           Level ..... vv
Device ..... dddddddd
User ID ..... uuuuuuuu   User Name ... nn...nn

```

The information contained in the window is useful for analyzing the cause of the error.

The values in the window above have the following meanings:

Field	Value	Explanation
SYSMAIN function	xxxxxx	The SYSMAIN function that is being performed.
	cc	An internal status code useful for Software AG technical support. The following codes can be displayed: A Automatic processing. D XRef data is being deleted. E Error in processing (flag for SYSMAIN). F Status setting when XRef data is being processed. G Status setting when XRef data is being processed. H Selection list processing. I Option is being processed. S Single object processing. T SYSMAIN termination by command processor. V Status setting when XRef data is being processed. X SYSMAIN termination by command processor. Y Validation error has occurred, redisplay should follow. Z Validation error has occurred, redisplay should follow.
Error Number	eeee	Corresponds to the system variable *ERROR-NR (see the <i>System Variables</i> documentation).
Program	pppppppp	Corresponds to the system variable *PROGRAM (see the <i>System Variables</i> documentation).

Field	Value	Explanation
Status Code	<i>s</i>	The kind of error. Possible codes are: C Command processing error. L Logon error. O Object time error. S Non-correctable syntax error.
Line	<i>llll</i>	Corresponds to the system variable *ERROR-LINE (see the <i>System Variables</i> documentation).
Device	<i>ddddddd</i>	Corresponds to the system variable *DEVICE (see the <i>System Variables</i> documentation).
User ID	<i>uuuuuuuu</i>	Corresponds to the system variable *USER (see the <i>System Variables</i> documentation).
Status	<i>ttttttt</i>	Corresponds to the system variable *ERROR-TA (see the <i>System Variables</i> documentation).
Level	<i>vv</i>	Corresponds to the system variable *LEVEL (see the <i>System Variables</i> documentation).
User Name	<i>nn...nn</i>	Corresponds to the system variable *USER-NAME (see the <i>System Variables</i> documentation).

If a processing error occurs, note the information in the window and press ENTER. The SYSMAIN utility attempts to recover to the last active menu screen, leaving the data values of the input fields unchanged.

If the special command DISPLAY is entered in the window (see also *Special Commands Issued to SYSMAIN*), the extended (long) message text for the error incurred is displayed.

If a processing error occurs during batch processing, the SYSMAIN utility prints the relevant error message and terminates.

Certain user errors can also cause the window to be displayed. Although SYSMAIN attempts to trap all errors during evaluation, this may not always be entirely successful. For example, if a user requests that a DDM be copied from one environment to another, but specifies an invalid database ID (DBID), SYSMAIN attempts to access this database. An Adabas response code of 148 is returned, and the SYSMAIN ERROR transaction is invoked and the window displayed. Similarly, an invalid file can result in a number of errors being sent from the database.

In situations in which an Adabas response code 9 is returned, SYSMAIN writes a message informing you of the error and restarts processing from the last function or menu. If a particular request had not been completed, you can assume that the response code 9 resulted in a BACKOUT TRANSACTION to the last non-completed transaction.