

Natural Text Modules

This section describes the Natural text modules NATTEXT and NATTXT2. It covers the following topics:

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 - NATTEXT Module
 - NATTXT2 Module
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Function and Usage of Text Modules

All Natural keywords, alternative keywords and standard output text are contained in the modules NATTEXT and NATTXT2. Natural system commands and alternate system commands are also included as keywords and alternative keywords respectively in these modules. The modules are contained in source form in the Natural source library and in load module form in the Natural load library.

If necessary, you can modify Natural keywords, alternative keywords and text contained in these modules. For example, Natural session termination messages can be changed from English to another language, Natural keywords can be disabled, or synonyms can be added.

If any modifications are made to a NATTEXT or NATTXT2 module, each modified module must be assembled, link-edited and included into the executable Natural module, refer to the Natural Installation Guide for Mainframes.

NATTEXT Module

The NATTEXT module contains NTKEY and NTALT macros for each keyword and alternative keyword to be recognized by Natural.

Modifying NATTEXT



It is recommended that you modify NATTEXT for very important reasons only, because once modified, it can no longer be properly maintained by Software AG personnel.

The following rules apply:

- A keyword value for a NTKEY or NTALT macro can be changed by replacing the current keyword value with the desired value.
- A keyword or alternative keyword can be disabled by replacing the keyword value with the character "%".
- The position of each NTKEY and NTALT macro within the module is fixed and must not be shifted. Additional NTKEY and NTALT macros must not be inserted.
- Synonyms can be assigned for any keyword or alternative keyword using the NTSYN macro. One or more NTSYN macros can be inserted after a NTKEY or NTALT macro. The NTSYN macro includes one parameter, which is the value to be used as the synonym. If the synonym contains embedded blanks, the entire value must be enclosed in apostrophes.

Example of Modifying the NATTEXT Module

The following example illustrates how a NATTEXT module is modified. In this example

- the synonym RECHERCHE is to be used for the keyword FIND;
- the synonym LISEZ is to be used for the alternative keyword BROWSE;
- the keywords GET and HISTOGRAM are to be disabled.

NATTEXT **before** modification:

```
STATNAM NTKEY FIND
        NTALT BROWSE
        NTALT GET
        NTALT ACCEPT
        NTALT REJECT
        NTALT HISTOGRAM
```

NATTEXT **after** modification:

```
STATNAM NTKEY FIND
        NTSYN RECHERCHE
        NTALT BROWSE
        NTSYN LISEZ
        NTALT %
        NTALT ACCEPT
        NTALT REJECT
        NTALT %
```

NATTXT2 Module

The NATTXT2 module contains standard Natural output texts and Natural termination messages.

Standard Natural Output Texts

The module NATTXT2 contains the following standard Natural output texts, each of which can also be displayed in another language if the language code is set accordingly (see also below):

- the literal "Page" used in the standard output page header;
- the name of each month as used in the Natural system variable *DATG (Gregorian date), date edit masks (L), and the name of each day as used in date edit masks (N);
- the "ENTER INPUT DATA" message and the skeleton error messages for error numbers 1104, 1105 and 1106 (used during online input processing);
- the error message used for system file open failure (which cannot be retrieved from the system file); an error number of the form NAT8xxx (where xxx is the decimal Adabas response code) is added to this error message by Natural;
- the constants "More", "Top" and "Bottom" used in windows for position information to be displayed in text form;
- the table to define reports and report handling for reports greater than 33.

Any values contained in NATTXT2 can be modified by replacing the current text with the desired text. If a month-name synonym exceeds nine characters, only the first nine positions are used by the system variable *DATG. The NATTXT2 module contains the macros NTKEYT, NTALTT and NTSYNT.

NTSYNT macro statements can be added as described for module NATTEXT. However, with NATTXT2, a second parameter can be specified. This parameter is optional and represents the language indicator to be used for the synonym. When you specify the language indicator, Natural produces message output resulting from the use of this synonym in the corresponding language. In addition, if error message texts have been stored in the Natural system file using a language indicator other than "1" (which is the default and stands for "English"), error messages are returned in the corresponding language. For information on which language code stands for which language, refer to the ULANG parameter.

Natural Termination Messages

Apart from standard output texts, NATTXT2 contains the session termination messages issued by Natural. Each of these messages consists of the message ID and the message text.

The message ID must not be modified; however, you can modify the message text. The overall length of ID and text can be up to 72 characters.

Apart from the message ID and text, each system termination message also includes one of the following Natural system return codes:

Code	Explanation
0	Normal termination.
4	Error occurred during execution/compilation (batch mode only).
8	Termination due to severe runtime error.
12	Session initialization failure.
16	Abnormal termination due toabend or severe environment failure..

User-written termination messages can be added for all return codes (1 - 255) which can be issued with a TERMINATE statement and which normally lead to the Natural termination message NAT9987.

For user-written termination messages, a return code must be specified.

Example of a User Termination Message:

```
NTERMSG 'THIS IS A SAMPLE USER MESSAGE FOR RETURN CODE 77',77
```