Editing the Configuration Member CONFIG

Select the ADMIN option on the Main Menu. You are presented with the Administrator Menu which contains all available administration options with a short description of their meaning, for example:

```
---------------------------- ADMINISTRATOR MENU -------------------------------
   OPTION  ===>
                                                              User ID  FHI
                                                              Time     15:38:16
    _ 1    CONFIG     - Configuration parameters              Terminal DAEFTCS3
    _ 2    USER       - User maintenance                      Library  NSPF241
    _ 3    MENU LIST  - Display N-ISPF menu list              Node     148
    _ 4    MENU       - Add/update N-ISPF menu
    _ 5    EXAMPLE    - Invoke example menu
    _ 6    NODES      - Update N-ISPF nodes table

    _ 7    SHORTLIB   - Edit global shortlib member
    _ 8    PANDEF     - Edit PANVALET definition member
    _ 9    LIBDEF     - Edit LIBRARIAN definition member
    _ 10   PDS VERS.  - Edit PDS versioned libraries list
    _ 11   NAT VERS.  - Edit NAT versioned libraries list
    _ 12   VSE VERS.  - Edit VSE versioned libraries list
    _ 13   VERSIONS   - Maintain versioning data

    _ 14   BPSTAT     - Display editor BufferPool status
    _ 15   BP FILES   - List all BufferPool files
    _ 16   BP RECS    - List all Recovery files
   Enter-PF13--PF14--PF15--PF16--PF17--PF18--PF19--PF20--PF21--PF22--PF23--PF24---
         Help  Relis §End  !Br : t;fin !inf  Up    Down  Susp; Left  Right Exc :
```

Select the CONFIG option on the Administrator Menu. The Configuration Menu appears:

```
---------------------------- CONFIGURATION MENU -------------------------------
   OPTION  ===>
                                                              User ID  FHI
                                                              Time     15:43:54
    _ 1    N-ISPF     - N-ISPF parameters                     Terminal DAEFTCS3
                                                              Library  NSPF241
    _ 2    CONFIG     - Edit Config member                    Node     148
    _ 3    CONTROLU   - Edit Site control table

    _ 4    NCP        - Use NCP command processor









   Enter-PF13--PF14--PF15--PF16--PF17--PF18--PF19--PF20--PF21--PF22--PF23--PF24---
         Help  Relis §End  !Br : t;fin !inf  Up    Down  Susp; Left  Right Exc :
```


This menu contains all available configuration options with a short description of their meaning.

The User Profile Library can contain the member CONFIG which defines the installed subsystems and active user exits. If you wish to activate user exits, other subsystems and/or special purpose switches, you must modify the CONFIG member.

Without the CONFIG member, there are no active user exits and the subsystems enabled are Natural and your site's operating system (OS/390, VSE/ESA or BS2000/OSD). An example of the CONFIG member is contained in the System Profile Library. You can copy this example to the User Profile Library using the SYSMAIN utility.

The CONFIG option on the Administrator Menu provides direct write access to the CONFIG member using the Editor. Any modification made to this member will take effect next time you invoke Natural ISPF. It is therefore recommended that you restart Natural ISPF after modification of the CONFIG member.

The following subsubsections describe how to define subsystems, activate user exits and activate the logon screen.

Defining Installed Subsystems

The currently available subsystems are listed in a table in Subsystems Supported by Natural ISPF at the end of this documentation.

To enable a subsystem, enter its abbreviation preceded by a plus sign + starting in Column 1 of any line in the CONFIG member. You can only enter one subsystem per line.

Example

The following example of a CONFIG member defines a Natural ISPF system with subsystems Natural, OS/390, SAT and PANVALET:

```
EDIT-NAT:SYSISPFU(CONFIG)-Program->Struct-Free-45K ------------ Columns 001 072
   COMMAND===>                                                  SCROLL===> CSR
  ****** ***************************** top of data ****************************
  000010 * Defined subsystems
  000020 *
  000030 +N  - NATURAL SUBSYSTEM
  000050 +M  - MVS SUBSYSTEM
  000060 +S  - SAT      SUBSYSTEM
  000070 +P  - PANVALET SUBSYSTEM
  ****** **************************** bottom of data ***************************
```

Note:
The Natural ISPF menus distributed on your installation tape display the lines relevant to the subsystem(s) activated here; lines (menu options) which have been defined in these menus but which are not related to one of the activated subsystems will be invisible for all users at your site.

Activating Natural ISPF User Exits

You can activate a user exit for a Natural ISPF object in the CONFIG member by entering a 3-character abbreviation in a line preceded by an opening parenthesis **(** . Multiple abbreviations separated by blanks can be entered in one line, and multiple lines are possible, all preceded by an opening parenthesis **(** .

You can use the following abbreviations to activate the associated exit:

Abbreviation	**Object (Member: TAB-EXIT)**
ACT	Active jobs

Abbreviation	Object (Member: TAB-EXIT)
BF	BS2000/OSD files
BJ	BS2000/OSD jobs
BPF	Buffer pool files
BPR	Buffer pool recovery files
CNF	Configuration object
CON	System console
CST	Module CSECT
CTN	Incore container file
DA	VSE/ESA Active jobs
DJ	VSE/ESA Job
DS	Dataset
DV	VSE/ESA volume
ERR	Natural error
FIL	VSE/ESA File
JOB	Job
JV	BS2000/OSD job variable
LIB	CA-LIBRARIAN member
LMS	BS2000/OSD LMS elements
LMV	BS2000/OSD LMS elements version
LOG	System log
LV	CA-LIBRARIAN member version
MAC	Macro
MEM	VSE/ESA member
MNU	Natural ISPF menu
MV	Members versions
NAT	Natural object
NV	NAT member version
OUT	Work output
PAN	PANVALET member
PDS	PDS member
PV	PDS member version
REC	Recovery file
SUB	VSE/ESA sublibrary
SYS	Job SYSOUT
USR	Natural ISPF user

Abbreviation	Object (Member: TAB-EXIT)
VIW	Database view
VOL	Volume
VV	VSE/ESA member version

Other Exits

Abbreviation	Area of Application (Member: TAB-EXIT)
HSM or HSM-S	OS/390 migrated dataset recall (HSM, DMS archiving facility or similar product).
GROUPS	Locate group profiles that apply for users
LOGON	Logon procedure
LOGOFF	Logoff procedure
NODE	Access a Node
PRINT	Print
PROFIL	Editor profile name
RENAME	Rename
RESUME	Return to Natural ISPF
SESS	Submit or export from edit session
SUSP	Suspend Natural ISPF

Note:
See also the subsection Special Purpose Switches and the detailed descriptions of the user exits in Section User Exits.

Example

The following example of a CONFIG member activates the user exits for Natural objects and PDS members.


```
EDIT-NAT:SYSISPFU(CONFIG)-Program->Struct-Free-45K ------------ Columns 001 072
   COMMAND===>                                                  SCROLL===> CSR
  ****** ***************************** top of data ****************************
  000010 * Defined subsystems
  000020 *
  000030 +N  - NATURAL SUBSYSTEM
  000040 +M  - MVS SUBSYSTEM
  000050 +P  - PANVALET
  000060 *
  000070 * Active user exits
  000080 *
  000090 (NAT PDS
  ****** **************************** bottom of data ****************************









  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
        Help  Split End   Suspe Rfind Rchan Up    Down  Swap  Left  Right Curso
```

This means that when a user issues a specified command for any of these object types, the related user exit is called before the command is executed. For more information on user exits, see Section User Exits.

Activating Logon Screen

You can add a line in the CONFIG member which causes a logon screen to be displayed when a user invokes Natural ISPF.

The line must start with a dollar sign **$** in column 1 followed by the word LOGON:

```
$LOGON
```

You can enter up to two additional parameters in the same line, separated by blanks. The following are possible:

Parameter	Meaning
PROCESS	Causes automatic logon to Entire System Server.
USER=user-id	Displays the logon screen only to the specified user. This feature is useful if no security check is performed at your site. The user ID specified here should be the ID passed to Natural by the TP monitor.

Versions File Node Number

You can optionally add the following parameter in a line of the CONFIG member:

```
-VERSIONS-BY-NODE
```

It is recommended that you use this parameter only if your site has several Entire System Server nodes that access **different** computers in your environment. The node number is then used as part of the identifier of versioning data.

This means that if you have more than one Entire System Server node on one computer, you are strongly advised **not** to use the VERSIONS-BY-NODE parameter.

Special Purpose Switches - APPLYMOD Parameters Member: APPLYMOD

Natural ISPF provides some special purpose switches, which for resource reasons can be controlled by setting a switch with a value in the CONFIG member. The general syntax for setting a switch is:

```
APPLYMOD nn = V        /* Comment
w
```

where:

Parameter	Meaning
nn	is a 1 or 2 byte numeric value identifying the particular APPLYMOD.
V	is a value assigned to the APPLYMOD to select a particular option.

Note:
APPLYMOD 10, which was not used in Version 2.1, has been assigned a meaning different from the one it had in Version 1.4.x. See the description below for details.

The special purpose switches available are described in detail in the following.

APPLYMOD 10

Activates a new syntax and semantic for specifying the SCAN parameter for LIST functions, which allows you to specify search strings containing blanks even as first or last character. The new syntax is similar to the syntax for the editor command FIND, this means that, if the search string contains blanks, it must be embedded in single or double quotes, (’) or ("). Moreover, if the search string is embedded in single quotes, a single quote occurring **within** the search string must be specified as two single quotes ’’ (two characters).

Example

To search for all occurrences of: Marc’s (embedded in blanks), specify either:

```
SC=’ Marc’’s ’
```

or

```
SC=" Marc’s "
```

Notes:

1. In some cases, the activation of APPLYMOD 10 causes different results for SCAN operations: For example, if APPLYMOD 10 is not activated, the command LIST * SC=’STAT’ results in a list of all members of the current library containing the string ’STAT’ (embedded in single quotes). When APPLYMOD 10 is activated, the same command will result in a list of all members containing the string STAT, which is consistent with the semantic of the FIND command, where FIND STAT and FIND ’STAT’ provide identical results. To list all

members containing ’STAT’, you would have to specify LIST * SC=’’’STAT’’’ or LIST * SC="’STAT’" in this case.
2. Setting APPLYMOD 10 may also cause command scripts containing these kinds of SCAN operations to provide different results.

Possible values for APPLYMOD 10 are:

Parameter	Meaning
blank	Switch is off; SCAN results are identical to previous versions.
X	Switch is on; new logic is enabled.

Default is APPLYMOD 10 = <blank> (switch is off).

`Usage Notes`

You should set this switch if you want to enable your users to scan for strings with trailing blanks, and if there is no need for scan operations to behave consistently with previous versions of Natural ISPF.

APPLYMOD 16

When working with Natural members, a maximum line length of 88 bytes is used. If you need a line size greater 88 for editing, printing, etc., you can enter the new line size here. Possible values are:

Parameter	Meaning
0	Switch is off.
nn	New line size in range from 88 to 253.

Default is APPLYMOD 16 = 0 (switch is off).

`Usage Notes`

Set this switch if your Natural programs contain source lines longer than 88 bytes. Note that increasing this value means that Natural edit sessions will consume more space in the Editor Buffer Pool.

APPLYMOD 18

OS/390 only: deactivates the selection of SYSOUT files for a specific output class. That is, all SYSOUT files for a given job are displayed in a list of SYSOUT files. Possible values are:

Parameter	Meaning
<blank>	Switch is off. Listed SYSOUT files will be selected by job number and the assigned output class.
X	Switch is on. In a list of SYSOUT files, all files of a job will be listed.

Default is APPLYMOD 18 = <blank> (switch is off).

`Usage Notes`

It is recommended that you set this switch only when notified by Software AG. In general, a difference between the two settings can only be seen with jobs that create output in more than one output class.

APPLYMOD 22

Activates the extended Natural / USPOOL interface under Com-plete. Using USPOOL functionality, for example, a logical printer driver can be invoked. Possible values are:

Parameter	Meaning
<blank>	Switch is off. A DRIVER parameter specified with any PRINT command issued by a Natural ISPF user is interpreted as the name of a printer control character table (as defined with the NTCC macro - for further information, see Natural documentation).
X	Switch is on. When executing under Com-plete, a DRIVER parameter specified with any PRINT command issued by a Natural ISPF user is interpreted as the name of a Logical Output driver routine for Com-plete. See the subsection Logical Output Drivers in Section 3: TIBTAB-Terminal Information Block Table of your **Com-plete System Programmer's Guide**.

Default is APPLYMOD 22 = <blank> (switch is off).

`Usage Notes`

For installation of this feature, read also the related subsection of Step 15 of this documentation.

APPLYMOD 25

Deactivates the compression of LMS member list under BS2000/OSD. Possible values are:

Parameter	Meaning
<blank>	Switch is off.
X	Switch is on.

Default is APPLYMOD 25 = <blank> (switch is off).

`Usage Notes`

It is recommended that you set this switch only when notified by Software AG.

APPLYMOD 26

This switch has been newly introduced with Natural ISPF Version 2.1.2.

Use this switch to control how Natural ISPF reacts, if the Natural source area is found non-empty at the time when Natural ISPF is started, or if it is first suspended (for example, with the session command Natural) and then re-entered. Possible values are:

Parameter	Meaning
N	Switch is off. This setting ensures that Natural ISPF acts in a way fully compatible with previous versions, this means that the source area contents are ignored in the situations described above.
X	Switch is on. Natural ISPF opens an EDIT session for the object found in the source area, without prompting. When re-entering the program in this way, Natural ISPF is suspended again as soon as the new edit session is ended (users are prompted whether this is intended). This is the default setting.
P	Switch is on, but users will be prompted if it is intended to open an EDIT session for the object found in the source area.
Y	Switch is on, but suspension is performed without prompting.
Z	Switch is on, but no automatic suspension is performed.

Default is APPLYMOD 26 = X (switch is on).

`Usage Notes`

Set this switch to **N**, if Natural ISPF is invoked from applications that use the source area for text generation and if you do not want users to modify the source area lines from Natural ISPF. You can also set the switch to **Y** or **Z** to suppress prompting in the situations indicated above.

APPLYMOD 42

Activates Con-nect Inbasket checking, when the Software AG office system is installed and the appropriate subsystem is activated in the Natural ISPF configuration member (see the subsection Defining Installed Subsystems). Possible values are:

Parameter	Meaning
0	Switch is off.
nn (<=150)	Time interval in minutes after which your Con-nect Inbasket is checked. If the number of new items in the Inbasket has changed since the last check, the user is notified by a message. No error message is issued if the user does not have a personal Con-nect cabinet.
nn (>150)	This option is similar to the above, that is, Inbasket checking is activated, but (nn-150) is used as the time interval in minutes and an error message is issued if the user does not have a personal Con-nect cabinet.

Default is APPLYMOD 42 = 0 (switch is off).

`Usage Notes`

Use this switch when Con-nect is installed and you want users to be notified of incoming Con-nect messages.

APPLYMOD 47

OS/390 only: when browsing job output, this switch controls whether or not all SYSOUT datasets are shown as one file. Possible values are:

Parameter	Meaning
<blank>	Switch is off - SYSOUT datasets are shown as separate files.
X	Switch is on - SYSOUT datasets are shown as one file.

Default is APPLYMOD 47 = <blank> (switch is off).

Usage Notes

Set this switch if this function is requested at your site.

APPLYMOD 48

When browsing BS2000/OSD files and/or LMS elements, this switch controls whether the data is held in the Editor buffer pool or if the session is handled as ’external’, that is, data is read from disk every time when scrolling or scanning (FIND operations) is performed. Possible values:

Parameter	Meaning
N	Switch is off - data is held in the Editor buffer pool.
F	Activates external BROWSE mode for Files.
L	Activates external BROWSE mode for LMS elements.
X	Activates external BROWSE mode for Files and LMS elements.

Default is APPLYMOD 48 = X (switch is on, both for files and LMS elements).

Usage Notes

It is recommended that you modify this switch only when notified to do so by Software AG. Note that the default value of this switch has changed compared with older versions 1.4.1 and 1.4.2 of Natural ISPF.

APPLYMOD 53

Reduces ESY/NPR calls to check whether a dataset is a GDG.

Parameter	Meaning
<blank>	Check for GDG.
X	Do not check.

Default is APPLYMOD 53 = <blank> (check for GDG).

Usage Notes

Set this switch if you are not using Natural ISPF together with GDG (Generation datasets).

APPLYMOD 55

Avoids timeout of Editor session 40, which contains Natural ISPF internal data, by doing STATUS calls every 10 minutes. Possible values are:

Parameter	Meaning
<blank>	Status calls not active.
X	Status calls active.

Default is APPLYMOD 55 = <blank> (no status calls>.

Usage Notes

Set this switch if you reduced the Delete file timeout value for the Editor Buffer Pool and some of your user get error messages like Write to BP failed.

APPLYMOD 57

Bypass for Adabas calls exceeded when printing empty SYSOUT datasets.

Parameter	Meaning
<blank>	Bypass not active
X	Bypass active

Default is APPLYMOD 57 = <blank> (bypass not active).

Usage Notes

It is recommended that you set this switch only when notified by Software AG.

APPLYMOD 58

Activates a general LIMIT for Editor FIND commands, when editing or browsing PDS members, LMS elements, sequential datasets or SYSOUT datasets. A FIND command will then display a message after scanning 5000 records, if you want to continue the search the command RFIND must be entered. The limit can always be modified (see also Editor command LIMIT).

Parameter	Meaning
<blank>	No limit for FIND command.
X	Default limit (5000) is activated.

Default is APPLYMOD 58 = <blank> (no limit).

Usage Notes

Set this switch if you are working with large datasets in a TP environment and FIND commands consume a lot of CPU and cannot be interrupted.

APPLYMOD 59

Activates full expiration date checking before writing to a dataset. If you are working with expiration date and a dataset has not yet expired, a prompt warns you that you are going to write to this dataset.

Parameter	Meaning
<blank>	No expiration date checking.
X	Full expiration date checking is active.

Default is APPLYMOD 59 = <blank> (no check).

Usage Notes

Set this switch if you are using expiration date to protect your datasets and you want to avoid overwriting and operator messages. If you are working without expiration date in most of your datasets, you should not set this APPLYMOD.

APPLYMOD 63

Activates display of REAL-RECORD-COUNT (number of records, including control records) in VSE/ESA job lists.

Parameter	Meaning
<blank>	Use RECORD-COUNT.
X	Use REAL-RECORD-COUNT.

Default is APPLYMOD 63 = <blank>.

Usage Notes

Set this switch if you want to see the real number of records in your VSE/ESA job lists.

APPLYMOD 65

Defines whether any fields in the user defaults cannot be inherited from a group. This means that if the field is not defined in the user profile, Natural ISPF will not read group profiles to find a value for this profile field.

To activate this switch, you should assign a numeric value lower than 64; this value will be interpreted as bit-coded. This means, that for each bit set in the binary representation of that number, Natural ISPF will not search group profiles for a definition of the corresponding profile field, as shown in the table below. Of course, any definition found in the user profile of the individual user will always be honored, regardless of the value assigned to this switch.

Parameter	Meaning
.......1	INIT LOGON
......1.	Default PRINTER
.....1..	Default FILE TYPE
....1...	Default DSNAME
...1....	Initial COMMAND

Default is APPLYMOD 65 = <blank> (all fields are inherited).

Usage Notes

Set this switch, if the performance of the Natural ISPF initialization phase is dissatisfying, and if none or only some of the above-mentioned fields need to be inherited from group profiles.

Example


```
APPLYMOD 65 = 5
```

If a user logs on to Natural ISPF and the profile does not contain a value for the fields INIT-LOGON and FILE-TYPE, Natural ISPF will not search for the group profiles of this user for these fields.

APPLYMOD 67

You can set this APPLYMOD to prevent concurrent editing of a VSE/ESA member. It activates a check as to whether the member has been modified somewhere else since start of the edit session. If this is the case, the SAVE command returns an error message.

Default is APPLYMOD 67 = <blank> (SAVE is always executed).

```
Usage Notes
```

Set this switch to avoid concurrent editing of a VSE/ESA member.

Example:

```
APPLYMOD 67 = X
```

APPLYMOD 68

Defines whether a warning is displayed whenever a user tries to access a dataset which has been migrated by HSM, DMS or a similar archiving system. The user can cancel the action to avoid a RECALL or can continue processing.

Parameter	Meaning
X	Users are prompted for confirmation before recalling a migrated dataset.
<blank>	Same as X.
D	Prompting takes place **only** for datasets showing ARCIVE in the VOLSER field of the catalog entry (DMS).
H	Prompting takes place **only** for datasets showing MIGRAT in the VOLSER field of the catalog entry (HSM).
N	No warning window opens. An error message is issued which informs the user that the dataset is not available.

Default is APPLYMOD 68 = <blank> (users will be prompted before recall).

```
Usage Notes
```

1. For the default setting, it is recommended that the Entire System Server startup parameter RECALL be set to NO for performance reasons.
2. Asynchronous recalling is not part of standard Natural ISPF features but can easily be implemented by coding an appropriate job submission within the HSM user exit of Natural ISPF (see Section User Exits). **Do not set APPLYMOD 68 to N if you have activated this user exit**.
3. Set this switch to **N** (as in the example below) if you are using HSM or a similar product and you want to deny Natural ISPF users the right to recall and access migrated datasets.
4. If you are **not** using HSM or a similar product, setting this switch to **N** will improve performance if your Entire System Server startup parameters do not contain the recommended setting RECALL=NO. This is because if the default setting RECALL=YES is in effect, each dataset must be checked for migration before its file attributes can be queried from Entire System Server.

Example:

```
APPLYMOD 68 = N
```

APPLYMOD 71

Defines whether windowing is suppressed when Natural ISPF is executed in batch. When executing Natural ISPF in batch, this switch can be used to overcome some Natural problems with windowing. This switch is evaluated in batch only.

Default is APPLYMOD 71 = <blank> (windowing active in batch).

```
Usage Notes
```

It is recommended that you set this switch only when notified to do so by Software AG.

Example

```
APPLYMOD 71 = X
```

APPLYMOD 75

Improves performance with export PC for large datasets. Prompt for PC file name is displayed without delay in minutes.

Parameter	Meaning
<blank>	Prompt after reading to the end of the file to determine the number of records contained.
X	Prompt immediately.

Default is APPLYMOD 75 = <blank> (no improvement).

```
Usage Notes
```

Set this switch to export large datasets or members to your PC.

APPLYMOD 80

Improves performance with the CC function for BS2000/OSD jobs. This function searches for job variables related to a specific job.

Parameter	Meaning
<blank>	Extended search is performed. The CC function checks the contents of all existing job variables within the current BS2000/OSD user ID and reports their values, if they contain the specified job ID.
X	The search is restricted to those job variables that contain the specified job ID as part of their names, and to a monitoring job variable specified when submitting the job, if any.

Default is APPLYMOD 80 = <blank>.

```
Usage Notes
```


Set this switch if many job variables are defined in your environment, and if performance of the CC function is not satisfactory. Note however, that the CC function will then provide reasonable results only for jobs that were submitted with a specified monitoring job variable, or for jobs creating job variables that contain the job ID (TSN) as part of their names, for example:

Example

```
/       DCLJV    JV.ISPUSER.ASMASS.&N..&($SYSJV.TSN),LINK=*CCASS
```

APPLYMOD 87

Modifies the header line of EDIT/BROWSE and LIST sessions. The node number is displayed in the header if it is different from the default node.

Parameter	Meaning
<blank>	Node will not be displayed in header.
X	Node will be displayed.

Default is APPLYMOD 87 = <blank>.

```
Usage Notes
```

Set this switch if you are in a multi-CPU environment with different Entire System Server nodes and you are accessing different nodes from the same Natural ISPF environment.

APPLYMOD 89

Makes the handling of data entered in the Natural Objects Entry Panel identical to previous versions of Natural ISPF (although different from the general logic).

Parameter	Meaning
<blank>	Fields of the Natural Objects Entry Panel will be filled with the values contained when the user left this panel the last time.
X	Field values from the last use are filled in only if these values do not refer to a library different from the current library, as shown on the Natural ISPF Main Menu (logic compatible with ISP 1.4).

Default is APPLYMOD 89 = <blank>.

```
Usage Notes
```

Set this switch if your users prefer the old way of handling the Natural Objects Entry Panel.

APPLYMOD 90

This switch has been newly introduced with Natural ISPF Version 2.1.2.

Controls the way in which the BR-CONSOLE session is to be filled in environments where the views CONSOLE and CONSOLE-LOG are both supported (i.e. in OS/390 and VSE/ESA environments). Possible values are:

Parameter	Meaning
<blank>	Automatic selection. Natural ISPF will choose the access method which best suits the environment of the node being addressed.
L	Session is filled using the view CONSOLE-LOG. Not supported for OS/390/JES3 environments. The local command LINES is supported.
N	Session is filled using the new CONSOLE function, supported by Entire System Server version 2.1.1 onwards only for the environments OS/390/ESA SP 5.1.0 onwards or VSE/ESA SP 06.01 onwards. The local command LINES is supported to extend the CONSOLE session.
O	Session is filled using old CONSOLE function, which is restricted to the size of one screen. The local command LINES is not supported.

Default is APPLYMOD 90 = <blank> (automatic selection).

`Usage Notes`

It is recommended that you set/modify this switch only when notified to do so by Software AG.

APPLYMOD 91

This switch has been newly introduced with Natural ISPF Version 2.1.2.

Controls whether or not activating the session exit ISP--S-U will also cause this exit to be invoked when an EXPORT function is about to be executed.

Parameter	Meaning
X	Exit will be invoked both for SUBMIT and EXPORT functions, thus making it possible to disallow a specific EXPORT operation, for example, after the size of the file being exported has been checked.
<blank>	Exit will be invoked for SUBMIT functions only, as described in Section Session Exit ISP--S-U in this documentation.

Default is APPLYMOD 91 = <blank> (exit used for SUBMIT only).

APPLYMOD 95

This switch has been newly introduced with Natural ISPF Version 2.1.2.

When working with VSE/ESA job output, a maximum line length of 133 bytes is used for browsing the job output lines, and a line length of 241 bytes is used for printing, exporting or copying job output data. If you need a line size greater than 133 for browsing, and/or greater than 241 for printing etc., you can enter the new line size here.

Parameter	Meaning
0	Switch is off - the default values are in effect.
nnn	New line size in the range from 133 to 253. (If the value is less than 241, it will affect BROWSE sessions only; for other functions, 241 will be used).

Default is APPLYMOD 95 = 0 (switch is off).

`Usage Notes`

Set this switch if your POWER output data contain lines longer than 133 bytes.

APPLYMOD 96

This switch has been newly introduced with Natural ISPF Version 2.1.2.

To edit and save LIBRARIAN members, which contain LIBRARIAN control cards, starting with a hyphen '-' , the hyphen '-' must be internally replaced with an equal sign '=' in column 1 of any data line. Set this switch to activate this substitution. Note that the substitution is performed correctly, only if source change XC21202 (TCS VOLSER XC12S2, solution to SAGSIS problem 160175) has been applied to your Entire System Server node, or if the version of the Entire System Server is 2.1.3 or higher.

Possible values are:

Parameter	Meaning
blank	Switch is off - no substitution is performed.
X	Switch is on - substitution is activated

Default is APPLYMOD 96 = blank (switch is off).

`Usage Notes`

Set this switch if your CA-LIBRARIAN members contain data lines starting with the escape character '-' (hyphen), which is usually reserved for CA-LIBRARIAN control cards.

APPLYMOD 97

This switch can cause an extended map to be used when the command NATP-LOGON (LOGON to an Entire System Server Node) is executed, allowing users to specify not only a user ID and a password but also Account Information. This can be useful in OS/390 environments (for writing SMF records) or in a BS2000/OSD environment for additional security checks, especially when the new startup parameter setting SECURITY=BS2A is being used.

Note:
This option is available only for Entire System Server Version 2.1.2 when solutions XC21202 (TCS VOLSER's XC1202 and XC12L2, solution to SAGSIS problem no. 160199) are applied to your Entire System Server node, or for Entire System Server Version 2.1.3 or higher.

Possible values are:

Parameter	Meaning
blank	Switch is off: NATP-LOGON does not allow ACCOUNT specification.
X	Switch is on: NATP-LOGON allows ACCOUNT specification and checking.

Default is APPLYMOD 97 = blank (switch is off).

`Usage Notes`

Set this switch if you have specified SECURITY=BS2A in your Entire System Server startup parameters, and if your Entire System Server version allows it (see note above).

APPLYMOD 101

By default in Natural ISPF group profiles are searched for with prefix logic. This switch, on the other hand, can be used to search for user group profiles that are derived from user groups defined in Natural Security.

Possible values are:

Parameter	Meaning
blank	Switch is off. Group profiles are searched for with prefix logic, as in previous versions of Natural ISPF.
S	Switch is on. Group profiles are derived from Natural Security definitions (both privileged and non-privileged groups).
P	Switch is on. Group profiles are derived from Natural Security definitions (from privileged groups only).

Default is APPLYMOD 101 = blank (switch is off).

`Usage Notes`

Set this switch if Natural Security is installed, and if you would like profile characteristics that are not defined for a specific user to be inherited from profile definitions made for a user group that contains the specific user. Leave the switch unchanged if you would like profile characteristics defined for a matching user prefix (for example, AB* for user ABEG) to apply for these users.

Note:
If no matching group profile is found, but a profile definition for the default user ***** exists, this definition will be inherited, regardless of the setting of the above APPLYMOD parameter.

APPLYMOD 103

When displaying Natural map layouts with the function command FORMAT, the maximum line length is set to the current value of Natural's *LINESIZE. If you need a greater line size for browsing, printing, or performing other functions on formatted maps, you can enter the new line size here.

Possible values are:

Parameter	Meaning
0	Switch is off.
nn	New line size in range from 80 to 250.

Default is APPLYMOD 103 = 0 (switch is off).

`Usage Notes`

Set this switch if your Natural maps have more columns than the displayable *LINESIZE in your Natural ISPF environment. You will then be able to use the scroll commands RIGHT and LEFT to display the columns which do not fit on the screen.

APPLYMOD 104

As of Natural ISPF Version 2.4.1, the menu structure is cursor-sensitive. To select a menu item you can either mark it with "x", or simply place the cursor in front of it. To use menu screens as in earlier versions, without cursor-sensitivity, set this parameter to "X".

Possible values are:

Parameter	Meaning
blank	Menus are cursor-sensitive.
X	Menus are not cursor-sensitive.

Default is APPLYMOD 104 = blank (switch is off).

Example: CONFIG Member

The following is an example of the CONFIG member with the APPLYMODs entered. Note that in this example, some APPLYMODs are activated, others are commented out (see also the subsection Using Comment Lines below).

```
EDIT-CNF:SYSISPFU(CONFIG) ---------------------------------- Columns 001 072
   COMMAND===>                                                SCROLL===> CSR
  000400 * The next line will determine whether to input logon-screen at the
  000410 * begining of NSPF.
  000420 * PROCESS keyword is optional and means to logon to natural process
  000430 * USER=xxx will ask for logon only if user = xxx
  000440 * $LOGON PROCESS
  000450 * APPLYMOD 16=132
  000460 * APPLYMOD 18=X
  000470 APPLYMOD 22=X
  000480 APPLYMOD 42=5  /* Inbasket every five minutes
  ****** *************************** bottom of data ***************************
```

Using Comment Lines

You can enter comment lines in the CONFIG member to provide information or explanations of entries. Comment lines must start with an asterisk ***** in column 1 of the line.

To deactivate any subsystem or user exit(s), it may be useful to turn the entry in the CONFIG member into a comment by entering an asterisk ***** in the first column of the corresponding line. This gives you a better overview of active and disabled items, and makes it easy to reactivate any available item.

When defining exits or APPLYMODs, you can enter comments at the end of the line if they are preceded by **/*** (see also the example above).

