

Invoking, Debugging, Exiting Con-nect And Other Useful Tips

This chapter covers the following topics:

- How Con-nect is Invoked
 - Profile Initialization
 - The Con-nect Banner-Map
 - Special Con-nect Print Modules
 - The Con-nect Error Log
 - Changing the Cabinet Address/Description Fields
 - Include User Defined Information Lines in the Con-nect Main Menu
 - Exiting from Con-nect
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How Con-nect is Invoked

Con-nect is normally invoked using the Natural program MENU. This program is supplied in source on the distribution tape; it can be modified as long as the FETCH "MENU" statement is not removed. This facility is provided to allow user processing before Con-nect is invoked.

MENU Parameters

The program MENU can be run using from 0 to 3 parameters. Leave blanks between MENU and first parameter, and between the parameters. If a parameter is a command sequence, separate each word in the sequence with either a semicolon or comma.

Note:

If your Natural ID parameter is set to semicolon (;), you must use a comma (,) to separate each word in the command sequence and not a semicolon.

No. of Parameters	Action
0	Initialize a private cabinet = *USER. If a cabinet matching *USER is not defined, the user is prompted for a cabinet ID and a password. The example below shows how this is coded. MENU
1	The action described above is taken, and then the parameter is processed as a direct command. The example below shows how this is coded. MENU DISPLAY;Document;doc-name
2	Parameter 1 is treated as a cabinet ID, parameter 2 as a password for that cabinet. The example below shows how this is coded. MENU CABID PASSWORD
3	Parameter 1 is treated as a cabinet ID, parameter 2 is treated as the password for that cabinet and parameter 3 is processed as a direct command. The example below shows how this is coded. MENU CABID PASSWORD DISPLAY;Document;doc-name

Specification of Cabinet ID

When 2 or 3 parameters are specified with the program MENU, the first parameter is treated as a cabinet ID and the second parameter as a password - even if no password is required. Password validation varies with the cabinet type:

Cabinet Type	Password Validation
Private	Password validated if supplied
Standalone	Password <i>always</i> required and validated
Shared	No password validation if *USER is defined as member of the cabinet.
Public	No password validation

A "dummy" password must be supplied using the MENU program for shared and public cabinets. For shared cabinets, this password is validated only if the user is not a member of the cabinet.

Profile Initialization

Normally when a cabinet is used, the following is initialized:

- the profile, which consists of
 - 1 command and object table
 - 2 cabinet profile
 - 3 user profile
- the PF-key table.

The initialization of various components of the profile depends on the cabinet type and the access method.

Normally, the user profile (*USER) is initialized, regardless of the type of cabinet accessed. This is to ensure that screen colors, date formats, language, etc., are kept the same in all cabinets in which a user can work.

The system profile is always initialized for the cabinet being used - regardless of *USER. This is done to allow public, standalone and shared cabinets to be defined with unique sets of menus and commands, thus allowing a Con-nect cabinet to represent a separate Natural application if desired.

Use a Private Cabinet

If a user attempts to use the private cabinet of *another* user, the profile is initialized as follows:

- User01 logs on (with the proper password) to Cabinet User02. The complete profile for User02 is initialized. This is effectively the same as if User02 were using Cabinet User02.
- User01 logs on to Cabinet User02 - which has been shared by User02 with User01. No password is required. The profile for User02 (except for the user profile and PF-keys) is initialized, and then any restrictions as defined by User02 for User01 are applied to that profile (see the *Con-nect User's Guide*, section *Cabinets*). The PF-keys for User01 are initialized.

Use a Standalone or Public Cabinet

The user profile (*USER) is initialized and used while accessing the standalone or public cabinet. If no profile for *USER exists (e.g. if *USER is *not* defined to Con-nect with a private cabinet), the profile for the standalone or public cabinet is initialized.

The user's own PF-key table is initialized, unless the user does not have his own private cabinet - in which case the PF-key table of the cabinet being accessed is used.

Use a Shared Cabinet

Note:

Shared Cabinets in this context mean shared cabinets at system level, i.e. cabinets defined as shared by an administrator, not a private cabinet which has been shared.

If the user (*USER) is not defined as a member, the cabinet profile of the shared cabinet is merged with the profile for *USER. If no profile for *USER exists, the profile for the shared cabinet is fully initialized.

If the user (*USER) is defined as a member of the shared cabinet, then the profile is initialized depending on the profile type. Profile types are:

- the profile defined for the cabinet.
- the profile defined for the user (user's private cabinet profile).
- a special profile defined for this member, in this cabinet.

The profile type is specified in the Members function of Cabinet Maintenance.

The user's own PF-key table is initialized.

The Con-nect Banner-Map

The layout of the "Info" screen for a document can be defined with the Natural map named BANNER n 0 (n is the language code, e.g. the English map is named BANNER10). This screen contains the document definition criteria, as well as information regarding modifications. The map can be edited using the Natural map editor.

The Print Defaults portion of the user profile can be modified to cause the banner page (i.e. the information from the "Info" screen) to be printed with the document. See *Print Defaults*.

Special Con-nect Print Modules

Documents

A special print module is supported, which provides a condensed printout that does not issue page breaks when the PRINT command is issued with a document. The condensed printout contains the banner page, attached notes/cover notes, list of replies and list of addressees all on one page.

Note:

Document information, list of replies, list of addressees, and attached notes/cover notes are printed only if defined in the print defaults. For further information, see *Print Defaults*.

Printed from : JS / Inbasket / New 10.Feb.2001 13:51

Sent to : Smith, John

Sent by : Simon, Terri 10.Feb.2001 13:20

Subject : Office Equipment

Cover note -----

John, Here are your new travel arrangements.

 18.Feb.2001
 United 1164
 Leave Washington 13:35
 Arrive New York 15:10

20.Feb.2001
 United 774
 Leave New York 11:30
 Arrive Washington 12:55

To use this module you must rename program C0711U in the SYSCNT2 library to C07119. Thereafter, this program is called each time the PRINT command is issued with a document.

To discontinue using this special print module, you simply rename C07119 to C0711U.

Meetings

A special print module is supported, which provides a condensed printout that does not issue page breaks when the PRINT command is issued with a meeting. This means that meeting basics (e.g. date and time of meeting, location), meeting statistics (e.g. number of attendees accepted, declined), the address list, and notes are all printed in this order, without page breaks. The agenda is printed on a separate page.

Note:

Meeting information, addressee list and notes are printed only if defined in the print defaults. For further information, see *Print Defaults*.

To use this module you must rename program C0716U in the SYSCNT2 library to C07169. Thereafter, this program is called each time the PRINT command is issued with a meeting.

To discontinue using this special print module, you simply rename C07169 to C0716U.

The Con-nect Error Log

The Con-nect error log is available to all users using the module D-TRACE.

Adding the Module D-TRACE as an Application

To access the module D-TRACE directly from your Con-nect session, you must first ADD an application. See the *Con-nect User's Guide*, section *Adding an Application* for detailed information.

Specify the following information in the "Add Application" window:

Library Name

Specify "SYSCNT2" as the name of the Natural library in which D-TRACE is catalogued.

Program Name

Specify "D-TRACE" as the name of the Natural program which is to be executed.

Parameter

Optional - you can specify the following parameters which are passed to the application when it is performed:

To access the Con-nect error log, specify "1" as the first parameter.

To access the multi-node error log, specify "2" as the first parameter.

If you do not specify a parameter, a screen will be displayed when you perform the application. In this screen you can either specify 1 (for Con-nect) or 2 (for Multi-node). You can also specify a user ID.

To display the error log for a specific user, specify the user ID as the second parameter.

Performing the Application to Access the Error Log

To display the error log screen, you must PERFORM the application.

? Library	User ID	Program	Error	Sub	Line	Date	Time	S	Page: 1
_ CNT33YB	XSISVG		0082		0000	2004-01-16	14:13:49.0	C	
_ CNT332	XSISAN1		0084		0000	2004-01-16	13:05:55.7	C	
_ CNT341	LS	C0625020	0932		0022	2004-01-16	12:56:52.4	O	
_ CNT33YB	XSISVG	B99050	1016		4590	2004-01-16	12:52:13.8	O	
_ CNT332	XSISAR	N-PCW2B	1016		0210	2004-01-16	12:29:23.5	O	
_ CNT332	XSISAR	N-PCW3B	1016		0650	2004-01-16	12:29:18.6	O	
_ CNT332	XSISAR	N-PCW2B	1016		0210	2004-01-16	12:28:44.5	O	
_ CNT332	XSISAR	N-PCW3B	1016		0610	2004-01-16	12:28:12.1	O	
_ CNT341	XSISAR		0080		0000	2004-01-16	08:07:17.6	C	
_ CNT341	XSISKU	C-29004B	5343		0630	2004-01-15	16:58:10.5	O	
_ CNT341	XSISAN	C01880	0082		0840	2004-01-15	15:48:38.9	O	
_ CNT341	XSISAN	C01880	0082		0000	2004-01-15	15:35:02.8	C	
_ CNT341	XSISAN	STACKER	0082		1850	2001-01-15	13:19:43.7	O	
_ CNT341	XSISAN	C-MRPTOP	1016		0230	2001-01-15	13:03:54.5	O	
_ CNT341	XSISAR	C03011	0936		7170	2004-01-15	12:38:54.4	O	
_ CNT341	XSISSK	C03011	0936		7170	2004-01-15	12:37:07.5	O	
_ CNT341	XSISAN	STACKER	0082		1850	2001-01-15	11:58:16.6	O	
_ CNT341	XSISAR	C03011	0936		7170	2004-01-15	11:57:37.4	O	
_ CNT341	XSISKU	C03011	0936		7170	2004-01-15	11:06:16.3	O	
_ CNT341	XSISAR	C03011	0936		7170	2004-01-15	11:04:29.3	O	
PF1=Help PF2=Print **** Errors in Function: 1 = Con-nect **** PF12=Delete									

The error logs show the last 70 errors in descending, chronological sequence (i.e. the last error that occurred is displayed at the top). The columns in the error log screen display the following information:

?

Mark with any character and press ENTER to display additional information for that error.

Library

The name of the library in which the error occurred.

User ID

The ID of the user who produced the error.

Program

The name of the program which produced the error.

Error

The Natural/Adabas error number.

Sub

The subcode of the Adabas error number.

Line

The line in the program in which the error occurred.

The following exception applies to Multi-node: if the error number is 3148 (database currently not active), the database number is shown in this column.

Date

The date on which the error occurred.

Time

The time at which the error occurred.

S

The Natural status code. The status can be one of the following:

- C command processing error,
- L logon error,
- O object-time error, or
- S non-correctable syntax error.

The following information applies to the most recent error in the log (i.e. the error that is shown at the top): if an error occurs and only the time, library or status code of the new entry to be made differ, the last entry in the log is updated with the new time, library or the status code.

You can use the following PF-keys:

- PF1 display information on a specific Natural error message. You enter the error number in a window and press ENTER to display the error message and its explanation. Pressing PF3 returns you to the error log screen.
- PF2 print the error log.
- PF12 Error log delete delete the error log. Only an administrator can delete the error log. For a user who is not an administrator, PF3 (Exit) is shown instead of PF12.

When the error log screen is displayed, press PF3 to return to the Con-nect screen from which you performed the application.

Changing the Cabinet Address/Description Fields

The Con-nect error message 0130 pertains to the cabinet address/description (see *Cabinet Address/Description*). With this error message, you can rename the default fields "Sex" and "Internet" to, for example, "Salutation" and "Comments". Changes to this error message will be applied to all cabinets.

You use the Natural utility SYSERR to modify error message 0130. To invoke this utility, see the Natural documentation, or your Natural administrator.

When the SYSERR menu is displayed, proceed as follows:

- Enter the code "MO".
- Make sure that the library is SYSCNT2.
- Enter "0130" in the first "Message number" field. Leave the second field blank.
- Ensure that the correct language code is specified (1 for English).

```

14:45:47          ***** NATURAL SYSERR UTILITY *****          2002-05-13
                      - Menu -

      Code  Function
      ----  -
      AD    Add new messages
      DE    Delete messages
      DI    Display messages
      MO    Modify messages
      PR    Print messages
      SC    Scan in messages
      SE    Select messages from a list
      TR    Translate messages into another language
      ?     Help
      .     Exit
      ----  -
Code .. mo    Message type .... US
              Library ..... SYSCNT2_
              Message number .. 130_ - ____
              Language codes .. 1_____

Please enter code.
Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help      Exit                                     Canc
    
```

When you press ENTER, only error message 0130 is displayed, as shown below.

```

14:47:46          ***** NATURAL SYSERR UTILITY *****          2002-05-13
                   - Modify Short Message -

Number           Short Message (English)
-----
SYSCNT20130     Sex           ->           <>Internet           ->           <*****
                .....1.....2.....3.....4.....5.....+..

1 Tx.
2
3
4 Ex.
5
6
7
8
18 Ac.
19
20

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
Mod           Exit           -           +           Canc
    
```

Number

A combination of the current Con-nect library and the error message number.

Short Message

The current error message. The default field names "Sex" and "Internet" are followed by the symbol "->". You enter the new field name after this symbol. Each field can be up to 13 characters in length. To revert back to the default field name you simply leave this area blank.

Press ENTER to save your modifications.

Include User Defined Information Lines in the Con-nect Main Menu

With the use of user-exit USR0010C, up to two lines of special information can be displayed in the user's main menu along with appointments, Inbasket items, etc.

The additional lines are always displayed below the user's Inbasket items. If Inbasket items are not displayed in the main menu the additional lines are not displayed. For further information, see the *Con-nect User's Guide*, section *Defining the Menu Layout*.

Furthermore, the layout of the main menu must be text at the left. Otherwise, this user-exit will not be called. See the *Con-nect User's Guide*, section *A Menu with the Text at the Left*.

The system automatically verifies that the user-exit exists in the system library and step library each time the main menu is displayed. If USR0010C is found, it is called and the special information is included in the main menu.

Note:

It is recommended to consider all security aspects when configuring this user-exit since security checks are not performed when the user-exit is called.

The parameter Info-lines is both an input and output parameter.

Input for the first line of parameter Info-lines is the active cabinet's ID, while input for the second line of parameter Info-lines is the user's ID.

The user-exit returns either the first or both text lines. However, if the text lines are blank, they are not displayed.

Parameters	In	Format	Out	Format
Info-lines		A35/1:2		A35/1:2
First-occurrence	Active cabinet	A8	Free text; optional	A35
Second-occurrence	Active user	A8	Free text; optional	A35

Example Program

```
0010 *
0020 * Example program for user-exit USR0010C
0030 *
0040 *
0050 DEFINE DATA PARAMETER
0060 1 #PARMS (A35/2)
0070 1 REDEFINE #PARMS
0080 2 #PARM1 (A35)
0090 2 #PARM2 (A35)
0100 *
0110 LOCAL
0120 1 #CABINET-ID (A8)
0130 1 #USER-ID (A8)
0140 *
0150 END-DEFINE
0160 *
0170 MOVE #PARM1 TO #CABINET-ID
0180 MOVE #PARM2 TO #USER-ID
0190 *
0200 RESET #PARMS(*)
0210 *
0220 MOVE 'Text line A' TO #PARMS(1)
0230 MOVE 'Test line B' TO #PARMS(2)
0240 *
0250 END
```

Exiting from Con-nect

Con-nect is normally exited via the Natural program EXIT. This program is supplied as source on the distribution tape, and can be modified by the user.

The exit program is called when you issue one of the following Con-nect commands:

```
QUIT  
LOGON library-name  
PERFORM Application name
```

Note:

When the Natural terminal command %% is entered in the Con-nect command line, the exit program is *not* called.

The exit program contains statements to reset the Natural environment to its original state before Con-nect was initialized. It also contains statements which describe how you can force the termination of a Con-nect session.