

CA Endeavor[®] Software Change Manager

CA Roscoe[®] Interface Administration Guide

Version 17.0.00



Second Edition

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CA Technologies Product References

This document references the following CA Technologies products:

- CA Endeavor® Software Change Manager (CA Endeavor SCM)
- CA Endeavor® Software Change Manager CA Roscoe® Interface (CA Endeavor CA Roscoe Interface)
- CA Roscoe® Interactive Environment (CA Roscoe IE)
- CA Librarian® Base for z/OS (CA Librarian)
- CA Panvalet® for z/OS (CA Panvalet)

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Documentation Changes

The following documentation updates have been made since the last release of this documentation:

Note: In PDF format, page references identify the first page of the topic in which a change was made. If the topic is long, the actual change may appear on a later page.

Version 17.0, Second Edition

- [The Footprint Display Panel](#) (see page 47)— Updated to add that when requesting an element display, if an element does not exist at location defined by the footprint, the request is executed against the first element located higher up in the map.

Version 16.0

- [The Summary of Levels Panel](#) (see page 32)— Updated to change the version and level format to VVLL.
- [Generate Fields](#) (see page 37)— Updated to change the version and level format to VVLL.
- [The Library Selection List](#) (see page 30)— Updated to change the version and level format to VVLL.
- [The CA Endeavor SCM Load Module IDR Display Panel](#) (see page 50)— Updated to change the version and level format to VVLL.

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Chapter 1: Installing the Interface

This section contains the following topics:

[What You Need to Know](#) (see page 9)

[How the Roscoe Installation Works](#) (see page 9)

[How to Make the Interface Unavailable to Users](#) (see page 16)

What You Need to Know

The CA Endeavor CA Roscoe Interface lets you perform CA Endeavor SCM functions in a CA Roscoe Interactive Environment. You can display and retrieve elements, display the footprints in source, object or load libraries, and build batch requests using the CA Endeavor SCM Software Control Language (SCL). You can also edit batch requests, build JCL and submit jobs.

The interface is initialized with other user applications during CA Roscoe IE startup, and remains ready for use until the CA Roscoe IE application is terminated by an operator command from the console.

All applications that are to be executed under ETSO must be defined in a load library known to ETSO and the Eligible Program List (EPL).

Prior to installing the interface, be sure that:

- You are using release 6.0 or later of Advantage CA Roscoe Interactive Environment.
- You are using the application programming interface ETSO.
- You have properly installed CA Endeavor SCM
- You have access to SMP/E modules.

How the Roscoe Installation Works

To install the interface, you must perform the following steps:

1. Install the Configuration Module.
2. Update the Initialization Exit.
3. Modify the Roscoe ETSO Eligible Program List.
4. Update the Roscoe Application JCL.
5. Modify ROSXINIT.

6. Copy the interface RPFs to the Public RPF Library.
7. Create the interface Panel Library Userid.
8. Recycle the Roscoe System.
9. Install the CA Endeavor SCM Batch JCL.

Install the Configuration Module

You must modify the configuration parameters for the interface. These parameters are contained in data set `iprfx.igual.CSIQJCL` in member `C1RJCNFG`. Change the following parameters for your site and execute the JCL.

`SERVERS=`

Must be set to 1. If another number is used, at initialization time, the server number is reset back down to 1.

`PPFX=`

Indicates the prefix of the Roscoe panel library. The default is 'C1'. You should change this to the prefix used for the Roscoe execution library that exists at your site.

`SPFX=`

Indicates the scratchpad work area prefix. The SPFX parameter is optional. If it is not specified, or specified as blank, the scratchpad work area will be allocated in the user's directory. If specified, it must be two or three characters long and must identify a prefix whose work area can be updated by any Roscoe user.

Note: This job creates the `uprfx.igual.RSCOLOAD` library.

Update the Initialization Exit

During Roscoe Interface initialization, the user interface program, `C1RPUSER`, calls a user supplied exit routine in order to determine the user ID of the current Roscoe user. The user ID returned by the user exit is used by the foreground Retrieve routine to perform sign-in-signout processing for the element to be retrieved.

The initialization user exit is called `C1RPUX00`. This module is loaded into memory during the startup phase of the interface. The exit is responsible for providing the Roscoe Interface user interface program with an eight character, blank padded user ID that is associated with the current Roscoe user. CA provides the following three sample user exits in the `iprfx.igual.CSIQOPTN`.

- `C1RPUX00`. This exit can be used if your installation is running Roscoe with the `EXTSEC=RACF` or `EXTSEC=TOPSECRET` enabled. The routine returns the security ID that is located in the ACEE associated with the current Roscoe user. No changes have to be made to the exit if your installation meets these criteria.

- C1RPUX01. This is a dummy exit that must be coded if C1RPUX00 cannot be used in your installation. The exit contains only the entrance and exit linkage code. You must add the necessary logic to extract the appropriate user ID, then save the user ID in the area provided for the exit. If you code your own exit, rename C1RPUX01 to C1RPUX00 and make the appropriate changes.
- C1RPUX02. This exit can be used if your installation is running Roscoe with ACF2 enabled. The routine returns the logon ID found in the SCBACFB field. This field is initialized by ACF\$ EXIT (ACF2 EXIT). If this exit meets your installation needs, re-name C1RPUX02 to C1RPUX00.

The installation user exit passes the address of a one word parameter list in register 1. The parameter list points to an eight byte field into which the exit places the user ID associated with the current Roscoe user. The user ID must be padded to the right with spaces if it is less than eight characters long.

The exit passes one of the following return codes in register 15:

- R15 = 0, if the exit has placed the user ID in the output field provided.
- R15 = 4, if the exit was unable to place the user ID in the output field provided.

If the exit routine passes a non-zero return code or if the user ID provided by the exit is blanks, the Roscoe Interface will disable the foreground Retrieve action. If a user attempts to perform a foreground Retrieve when the action has been disabled, you receive the following message: 'RETRIEVE disabled by the user exit'.

The user exit CSECT must be called C1RPUX00. The routine must be reentrant and reusable and able to execute in AMODE(31).

To assemble and link the user exit, use the JCL located in data set *iprfx.igual.CSIQJCL* in member BC1JRXIT.

Note: If you are on ACF2 release 6.1 or greater, C1RPUX02 is not required, use C1RPUX00.

Modify the Roscoe ETSO Eligible Program List (EPL)

Follow this step to modify your site EPL to include the CA Endeavor SCM module C1RUSER. The EPL identifies the attributes of each application that can be called by terminal users. When a terminal user calls an application, ETSO assumes the EPL is defined in the member RO.ETSOPGMS. If your site has defined the EPL in a different member or with a different prefix, the Roscoe initialization parameter ETSOPGMS= designates the new member/prefix.

Add the following entries to the EPL for your site. Remember that each EPL entry must be in alphabetical order. They are listed by column, contents and comments.

EPL Definition for Roscoe 6.0. and higher

Column	Contents	Comments
1-8	name	Program entry point. The name must start with an alphabetic character.
9	blank	
10-12	999	Maximum number of concurrent executions of the applications.
13	blank	
14-17	9999 5000 0020	CPU slice time (microseconds) prevents the application from terminating. Default value Small time slice (site specific).
18	blank	
19-24	1024	Total memory (in K) for this application below the 16 MB line.
25	blank	
26-31	1024	Total memory (in K) for each variable length request below the 16 MB line.
32	blank	
33-38	1024	Total memory (in K) for this application above the 16 MB line.
39	blank	
40-45	1024	Total memory (in K) for each variable length request above the 16 MB line.
46	blank	
47	Y or DN	Produce dump if application abends. Suppress dump.
48	blank	
49	Y	Application may go into supervisor state and is authorized for MODESET SVC.
50	blank	
51-52	N	Not a TSO command processor.
53-255	blank	ignored

Note: Memory allocations can be reduced if your system is storage constrained. If a value specified is too small, the interface user may experience an out of memory condition when building large CA Endeavor SCM selection lists. In addition, CA Endeavor SCM acquires most of its storage from above the 16 MB line.

Update the Roscoe Application JCL

This step describes how to update the Roscoe application JCL to function properly with CA Endeavor SCM.

By default, ETSO expects all of the applications called by the terminal user to be located in the load library assigned to the DDNAME ETSOLIB. However, if the Roscoe JCL contains ETSSRCH=ALL, the application load modules may be located in ETSOLIB (or a data set concatenated to it), JOBLIB or STEPLIB (or a data set concatenated to it), the Link Pack Area or a data set defined in the linklist concatenation.

Note: For more information, see the *Roscoe System Reference Manual SR-40-10-AO*.

1. If not running from a LINKLIST, update the JCL for the Roscoe application at your site by adding the following CONLIB or STEPLIB statements before the ETSOLIB declaration:

```
//STEPLIB DD DSN=iprfx.igual.CSIQAUTU,DISP=SH
// DD DSN=iprfx.igual.CSIQAUTH,DISP=SHR
// DD DSN=uprfx.uqual.RSCOLOAD,DISP=SHR
// DD DSN=iprfx.igual.CSIQLOAD,DISP=SHR
.
.
.
//CONLIB DD DSN=uprfx.uqual.RSCOLOAD,DISP=SHR
// DD DSN=iprfx.igual.CSIQLOAD,DISP=SHR
```

Specify the name of the CONLIB you created in the step Populate SMP/E and CA Endeavor SCM for Roscoe Install Data Sets, and the name of the CA Endeavor SCM CONLIB for your site.

2. Define the Roscoe Interface load modules to Roscoe by adding the following loadlib statements within the ETSOLIB declaration:

```
// DD DSN=iprfx.igual.CSIQAUTU
// DD DSN=iprfx.igual.CSIQAUTH
// DD DSN=uprfx.uqual.RSCOLOAD
// DD DSN=iprfx.igual.CSIQLOAD
```

Note: Data sets *iprfx.igual.CSIQAUTU* and *iprfx.igual.CSIQAUTH* need to be APF authorized.

Modify ROSXINIT

In this step, you modify the ROSXINIT macro. You must indicate that the interface control module C1RPCTRL must be executed upon startup of the Roscoe application. To do this, include the following entry in the ROSXINIT macro. Then reassemble this macro into the Roscoe loadlib for your site.

```
[tag] ROSX C1RPCTRL
```

Note: The MON option is omitted, causing ROSXINIT to always attempt to execute C1RPCTRL. No corresponding entry in ROSXTERM is required. Due to storage considerations, it is recommended that C1RPCTRL be placed near the top of the initialization list in ROSXINIT.

Copy the Interface RPFs to the Public RPF Library

There are four RPFs (NDVR, NDVRROSC, NDVRRPF and NDVRRETV) in the partitioned data set iprfx.igual.CSIQCLS0 that you must move to the execution/public RPF library at your site. Before you move the RPFs, you need to edit them to conform to your site requirements. You need to edit only the NDVR, NDVRROSC, and NDVRRPF RPFs; you do not need to modify NDVRRETV.

Edit NDVR

Before moving the RPFs, you must edit the NDVR members to indicate your site-specific Roscoe index and system libraries in the included ROSDATA step. The number of these libraries is site-specific and may be more than the five files shown in bold next.

Use the NDVR member to keep RPFs in a common library.

```
'//ROSDATA EXEC PGM=ROSDATA, PARM=''' |S.KEY |''', COND=(4,LT) '  
'//STEPLIB DD DISP=SHR, DSN=uprfx.ROSLIB '  
'//ROSLIB00 DD DISP=SHR, DSN=uprfx.ROSLIB00 '  
'//ROSLIB01 DD DISP=SHR, DSN=uprfx.ROSLIB01 '  
'//ROSLIB02 DD DISP=SHR, DSN=uprfx.ROSLIB02 '  
'//ROSLIB03 DD DISP=SHR, DSN=uprfx.ROSLIB03 '  
'//SYSPRINT DD SYSOUT=*
```

Edit NDVRRPF and NDVRROSC

You must also edit RPF NDVRRPF and NDVRROSC to indicate the name of the panel library (iprfx.igual.CSIQPENU) you created in the step Populate SMP/E and CA Endeavor SCM for Roscoe Install Data Sets.

For NDVRRPF, edit the following line shown in bold:

```
LET ATTACH NOPAUSE
LET L16 = 'iprfx.igual.CSIQPENU'
+IMP DSN=+L16+ (*)
FILL 10 255 / /
DELX 1 3 /C1R/
R 1 1
```

For NDVRROSC, edit the lines shown in bold next to conform to your site's requirements:

```
'//ROSCOPY EXEC PGM=ROSCOPY,PARM=''' &lor. S.KEY &lor. '''
'//STEPLIB DD DISP=SHR,DSN=uprfx.ROSLIB
'//ROSLIB00 DD DISP=SHR,DSN=uprfx.ROSLIB00
''//ROSLIB01 DD DISP=SHR,DSN=uprfx.ROSLIB01
''//ROSLIB02 DD DISP=SHR,DSN=uprfx.ROSLIB02
''//ROSLIB03 DD DISP=SHR,DSN=uprfx.ROSLIB03
'//SYSPRINT DD SYSOUT=*
'//*SYSLIST DD SYSOUT=*
'//SYSOUT DD DSN=&&NDVRADD(' &lor.L6&lor. ')
'// DISP=(OLD,PASS)
```

After editing is complete, move the RPFs to the execution/public RPF library. The share options of these RPFs should be **execute-only**.

Create the Interface Panel Library Userid

The interface panels are stored in the directory of a user from which all interface users must have read and execute authority. The prefix of the Roscoe user must be the same as the prefix specified on the PPFX parameter on the C1RMCNFG macro assembled in the step [Install the Configuration Module](#) (see page 10).

Sign on to the execution/public library and execute the RPF NDVRRPF. This RPF will import all interface panels from the partitioned data set iprfx.igual.CSIQPENU to the ROSCOE execution/public library.

Recycle the Roscoe System

Submit the Roscoe application JCL. When the interface has completed initialization, the following message appears on the console:

```
'C1R101I Roscoe Interface initialized with 1 server"
```

Note: If the message above is not seen in the z/OS Console log, then the interface server is not available. Return to the step [Modify ROSXINIT](#) (see page 14) and check the output for error messages.

Install the CA Endeavor SCM Batch JCL

The interface should now be operational. This step enables you to test the installation in conjunction with identifying the name of the batch JCL to the interface.

This procedure requires Roscoe administrator authority. You must use the Roscoe control account (R0) to logon to Roscoe. The Roscoe logon screen appears.

To test the installation

1. Type **NDVR** and press Enter. The Primary Options Menu appears.
2. Type **5** (SYSTEM PROFILE) and press Enter. (Only authorized administrators receive the full panel with the **5** option.) The interface System Profile Maintenance menu appears.
3. Type the following data set name and then press Enter. Be sure to include the member name C1SB300R.

```
iprfx.igual.CSIQJCL(C1SB300R)
```
4. Review the batch JCL to make sure that it conforms to your site specifications, updating the variables as noted in the step Allocate and Initialize the SMP/E Environment and CA Endeavor SCM Data Sets.

How to Make the Interface Unavailable to Users

As an administrator, there may be times when you want to make the interface unavailable to users. There are two different ways to do so:

- You can make Roscoe quiescent to keep users who are not logged on from starting the interface. All users who are logged on are allowed to finish the session.
- You can perform a shutdown to terminate the interface entirely.

Important! To bring up the interface after a shutdown, you must recycle the Roscoe application.

Quiesce the Interface

To make the interface unavailable to users

1. Use the CA Roscoe IE control account (RO) to logon to Roscoe. The CA Roscoe IE logon screen appears.
2. Type **NDVR QUIE** and press Enter. You receive the following message:
ENDEVOR FOR 05/390 ROSCOE INTERFACE MARKED UNAVAILABLE.
3. To restart CA Roscoe IE, type **NDVR REST** and press ENTER. You receive the following message:
ENDEVOR FOR 05/390 ROSCOE INTERFACE POSTED TO RESTART.

Terminate the Roscoe Interface

To terminate Roscoe

1. Use the Roscoe control account (RO) to logon to Roscoe. The Roscoe logon screen appears.
2. Type **NDVR QUIE** and press Enter. You receive the following message:
ENDEVOR for 05/390 ROSCOE INTERFACE MARKED UNAVAILABLE.
3. Type **NDVR SHUT** and press Enter. This command terminates the interface. You receive the following message:
ENDEVOR for 05/390 ROSCOE INTERFACE POSTED TO SHUTDOWN.

You also receive a console message when the shutdown is complete. Once you issue the 'SHUT' command, session statistics are written to the operator console. To view the statistics, access the system log. The log will contain statistics similar to the following:

ENDEVOR FOR 05/390 ROSCOE INTERFACE SESSION STATISTICS:
USERS CONNECTED= SERVER DISPATCHES=
MAX SERVERS USED= SERVER ABENDS=
WAITS FOR SERVER= WAITS FOR DISPATCH QUEUE
ENDEVOR FOR 05/390 ROSCOE INTERFACE SHUTDOWN COMPLETE
4. To bring up the interface after a shutdown, recycle the Roscoe application according to the procedures used at your site.

Chapter 2: Getting Started

This section contains the following topics:

- [Start the Roscoe Interface](#) (see page 19)
- [Commands and Function Keys](#) (see page 19)
- [TSO and Roscoe](#) (see page 20)
- [Name Masking](#) (see page 20)
- [Display List Processing](#) (see page 21)

Start the Roscoe Interface

To start the Roscoe Interface

1. Log on to Roscoe according to the procedures used in your office.
The Roscoe logon screen appears.
2. Type **NDVR** and press Enter.
The Primary Options Menu appears.
3. Select the processing you want to use by typing one of the option numbers in the OPTION field and pressing ENTER.

Commands and Function Keys

Use the following keys to move between interface panels:

PF3 or CLEAR

Ends a panel and returns you to the previous panel.

PF4

Returns you to the Main Menu.

PF7

Scrolls forward through a list or display.

PF8

Scrolls backward through a list or display.

TSO and Roscoe

If you work with both CA Endeavor SCM (under TSO) and the Roscoe Interface, you will notice a few differences between the two systems. Note that some of these differences are cosmetic in nature, affecting only the format of the panels and not the actual processing of your requests.

- There is no ISPF Library with project, library, and type on each panel. FROM (and TO) PARTITIONED OR SEQUENTIAL DATA SET options are provided on the panel, however.
- Each screen, where applicable, supports the THRU option for an element. A THRU field is listed on the panel for each action that provides the option.
- The Append and Include JCL settings are saved from session to session, rather than reset to **N** (the default) upon entry to CA Endeavor SCM.
- When you leave a field blank and the request is generated, an asterisk (*) is returned in that field, reflecting that an asterisk was entered in this field in the SCL for the request.
- The Roscoe Interface is set up to recognize a data set name of ROSCOE and write it out as DDNAME ROSCOE.

Name Masking

Many of the field descriptions contain references to a name mask. A name mask is represented by an asterisk, and allows you to specify all names, or all names beginning with a particular series of letters, to be considered when performing an action.

To use a name mask, simply code an asterisk (*) as the last or only character in any of the eligible fields (eligibility is noted in each field description). Code only one asterisk; if you enter more than one asterisk, you receive an error message. Note the following examples:

- If you enter the element name ABC* for the Add action, the system adds all elements beginning with the letters "ABC" (and meeting the rest of the criteria entered).
- Similarly, if you enter just an asterisk as the element name for the Add action, the system adds all elements (provided the remaining criteria is met).

This concept applies to all fields in which you can use a name mask.

Display List Processing

If you do not enter all required information on an action panel, one or more supplementary panels appear, allowing you to select the information you need. These panels include the following:

- Environment Selection List
- System Selection List
- Subsystem Selection List
- Action Prompt Panel
- Type Selection List
- Processor Group Selection List

A detailed explanation of each of these panels follows.

If you select an element display option, you can review detail information about the elements for which you are specifying the request. These panels include the Summary of Levels panel, the Element Master panel, the Element Changes panel, the Element Browse panel, and the Element History panel.

An Element Selection List is also available if you leave the ELEMENT field blank or use a name mask. Because this list is unique to each action, it is illustrated and explained with each action.

Similarly, a Type Selection List and a Processor Group Selection List appear during some actions. Again, since the lists are unique to an action, they are illustrated and explained with their respective actions.

The Environment Selection List

An Environment Selection List appears if you leave the environment name blank or supply a name mask in the ENVIRONMENT field on the action panel.

The following fields display in the Environment Selection List:

Environment

Name of the environment.

Environment Title

Descriptive title for the environment.

Stage 1

Alphanumeric ID and name for the stage.

Stage 2

Alphanumeric ID and name for the stage.

Entry ID

Environment's entry stage ID.

The System Selection List

A System Selection List appears if you leave the system name blank or supply a name mask in the SYSTEM field on the action panel.

The System Selection List presents the systems defined to the environment specified, and is limited to those names that match the characters specified in the SYSTEM name mask.

The following fields display in the System Selection List:

Note: All fields except the SELECTION field are display-only.

Selection (untitled)

Select the system you want to use by typing an S in this column, next to the appropriate system.

Environment

Name of the environment you are using.

System

System name.

System Title

Descriptive title for the system.

The Subsystem Selection List

A Subsystem Selection List appears if you leave the subsystem name blank or supply a name mask in the SUBSYSTEM field on the action panel. The Subsystem Selection List presents the subsystems defined to the environment and system specified, and is limited to those names that match the characters specified in the SUBSYSTEM name mask.

The following fields display in the Subsystem Selection List:

Note: All fields except the SELECTION field are display-only.

Selection (untitled)

Select the subsystem you want by typing an S in the column to the left of the appropriate subsystem.

Environment

Name of the environment you are using.

System

Name of the system being processed.

Subsystem

Subsystem name.

Subsystem Title

Descriptive title for the subsystem.

The Action Prompt Panel

If you do not specify a CCID and/or comment when one and/or the other is required for a batch action you are requesting, the Roscoe Interface displays the Action Prompt panel. To complete your action request, type a valid CCID and/or comment, and press ENTER.

The following fields display in the Action Prompt panel:

CCID

Enter a valid CCID for this action. The CCID you enter here remains as the required CCID until you change it or until the end of this particular work session.

Comment

Enter a comment for this action. The comment you enter here remains as the required comment until you change it or until the end of this particular work session.

Chapter 3: Processing Elements in the Foreground

This section contains the following topics:

[Foreground Default Values for Action Options](#) (see page 25)

[Displaying Element Information in the Foreground](#) (see page 25)

[Displaying Footprint Information](#) (see page 46)

[Retrieving Elements Using the Foreground Retrieve Action](#) (see page 52)

Foreground Default Values for Action Options

The default values shown automatically on the Roscoe interface foreground action panels are set in the ISPF configuration table, ENDICNFG, shipped with the CA Endeavor SCM installation files. An administrator can change the assigned default values by updating and assembling the ISPF configuration table. During a session, a user can change the values on the panels.

Displaying Element Information in the Foreground

Select option **1**, Display Element, from the Primary Options Menu to display information related to an element. You can use this option to display element changes or a summary of the change history for an element, the contents of an element, or Master Control File information for an element. When you select this option, the interface returns the Display Elements/Component Lists panel which enables you to identify both the element and type of information you want to see.

Once you identify the element and the information you want to display, press ENTER. The panel that appears next depends on the values in the BYPASS SYS/SBS SEL LIST field.

BYPASS SYS/SBS SEL LIST = Y

An Element Selection List appears showing all elements for the system, subsystem, type, and stage that you have specified on the Display Elements panel. The next section of this chapter describes list panels in detail.

BYPASS SYS/SBS SEL LIST = N

One or more of the following selection lists appear, depending on your use of name masks when you typed information on the Display Elements panel:

- System Selection List
- Subsystem Selection List
- Element Selection List

Once you have selected the elements for which you want to display information, press Enter. The interface returns the appropriate display panel either:

- Element Selection List panel
- Summary of Levels panel
- Element Master Info panel
- Element Browse panel
- Element Changes panel
- Element History panel
- Component Browse panel
- Component Change panel
- Component History panel

Each of these displays, as well as the Display Elements panel, are discussed in detail in subsequent sections.

If you select elements using selection lists, press PF3 when you are finished reviewing the information displayed. Alternatively:

- From the Element Selection List, you can request any of the element-display options available from the Display Elements panel, for one or more elements.
- From the Summary of Levels panel, you can request the Element Browse, Element Changes, or Element History panel for a specific level of the element.

Use either of these panels to identify the element and processing option desired. Press ENTER to continue.

To identify the element you want, specify the environment, system, subsystem, element name, type, and stage, as requested by the panel. If you identify the element(s) fully on this panel, a panel with the information you have requested appears when you press Enter. If you do not fully identify the element(s), processing depends on the value in the BYPASS SYS/SBS SEL list field. The following section describes Display Element panel fields.

The Option Field

In Roscoe Interface Release 3.6 or later, you can only enter a blank in the option field. Once you do so, a display list appears. From a display list, you can then use any of the options listed next. To view component list information with CA Endeavor SCM ACM, append an "X" to options S, B, C, or H.

- **S**—Retrieves a Summary of Levels panel, showing a summary of change history for the element requested. From this panel you can select a specific level of the element for display, using option B, C, or H
- **M**—Retrieves an Element Master panel, showing Master Control File (MCF) information related to the element requested.
- **B**—Retrieves an Element Browse panel, showing all statements in the current level of the element, and the level at which each statement was inserted.
- **C**—Retrieves an Element Changes panel, showing all inserts and deletions made to the element as of the current level.
- **H**—Retrieves an Element History panel, showing all statements in all levels of the element, from the base level through the current level. The display shows the level at which each insert/deletion occurred.

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

The From CA Endeavor SCM Fields

These fields contain information to describe the CA Endeavor SCM location of the element.

- **Environment**—Name of the environment under which the element is defined. Displays initially as the current environment. Fill in a new name if the element is in another environment.
- **System**—Name of the system under which the element is defined.
- **Subsystem**—Name of the subsystem under which the element is defined.
- **Element**—Name of the element for which you want to display information.
- **Type**—Element type for the element you want.
- **Stage**—ID of the stage in which the element resides. This must be one of the values shown to the right of the field (unless you are changing environments).

The List Options Fields (Roscoe)

Use these options to specify further the information you want to display.

- **Display List**—This option is always set to Y.
- **Where CCID Eq**—A CCID can be specified in this field to limit the selection list to only those elements whose last CCID is equal to the specified CCID. If omitted, the WHERE CCID EQ field is not used to limit the selection list.
- **Where Proc Grp Eq**—A processor group can be specified in this field to limit the selection list to only those elements to which the processor group has been assigned. If omitted, the WHERE PROC GRP EQ field is not used to limit the selection list.
- **Bypass SYS/SBS Sel List**—Indicates whether you want to go directly to the Element Selection List from the Display Elements panel:
 - Use **Y** to bypass system and subsystem selection lists.
 - Use **N** to provide individual selection lists as required by your entries on this panel.

The List Panels

This section describes the list panels returned from the Display Elements panel when you do not fully qualify the name of the element you want on that panel. One or more of the following panels may appear.

Environment Selection List

Environment, environment title, stages and stage names.

System Selection List

Systems for the environment specified.

Subsystem Selection List

Subsystems for the environment, optionally restricted according to the system name specified.

Element Selection List

Elements defined to CA Endeavor SCM, restricted according to the stage, system, subsystem, element type, and/or element name mask. This list appears directly from the Display Elements panel, when the value in the BYPASS SYS/SBS SEL LIST field is Y.

The Environment Selection List

This panel returns from the Display Elements panel when you do not specify a full environment name. It lists the environment, environment title, stages and stage names. Use this list to select the environment you want, by placing an S to the left of the environment name.

The following fields display in the Environment Selection List:

Selection (no title)

Field used to select the system you want. Place an S in this column, to the left of the appropriate environment name.

Environment

Name of the environment.

Environment Title

Descriptive title for the environment.

Stage 1

Alphanumeric ID and name for the stage.

Stage 2

Alphanumeric ID and name for the stage.

Entry ID

Environment's entry stage ID.

The System Selection List

This panel is returned from the Display Elements panel when you do not specify a full system name. It lists the systems defined to the environment requested, limited according to any partial system name (that is, mask) specified. Use this list to select the system you want, by placing an S to the left of the system name.

The following fields display in the System Selection List:

Note: All fields except the SELECTION field are display-only.

Selection (untitled)

Field used to select the system you want. Place an S in this column, to the left of the appropriate system name.

Environment

Name of the environment.

System

Name of the system.

System Title

Descriptive title for the system.

The Subsystem Selection List

This panel is returned from the Display Elements panel or the System Selection List, when you have not specified the full name of the subsystem you want. It lists the subsystems defined to the system requested, limited according to any partial subsystem name (that is, mask) specified. Use this list to select the subsystem you want, by placing an **S** to the left of the subsystem name.

The following fields display in the Subsystem Selection List:

Note: All fields except the SELECTION field are display-only.

Environment

Name of the current environment.

System

Name of the system for the subsystems displayed.

Selection (untitled)

Place an S in this column to the left of the subsystem name you want to select.

Subsystem

Name of the subsystem.

Subsystem Title

Descriptive title for the subsystem.

The Element Selection List

The Element Selection List you see depends on the values indicated in the panel fields, as well as on the panel sequence.

Note: If you do not specify a stage on the Display Elements panel, the Element Selection List will include the elements in both stages for the environment specified. The stage identifier appears between the TYPE and the VVLL fields on the panel.

Use the Element Selection List panel to select the elements for which you want more information. Fill in an option value to the left of each element you want, to indicate the information you want (**M**, **S**, **B**, **C**, or **H**); then press Enter. To view component list information with the CA Endeavor Automated Configuration option, append an "X" to options S, B, C, or H.

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

If you do not want to request more information, press PF3 when you are finished reviewing the information shown. The following section describes the panel fields.

Note: All fields except the SELECTION field are display-only.

Environment

Name of the current environment.

System

Name of the system under which the element is defined.

Subsystem

Name of the subsystem under which the element is defined.

Stg

ID of the stage for the element.

Selection (no title)

Used to select an element for further display. Type the appropriate option in this column to the left of the element for which you want to display information.

Element Name

Name of the element.

Type

Name of the element type.

NS

Indicates whether the element is a sourceless element. A value of Y indicates it is sourceless and the display options S, B, C, and H cannot be used. If blank, the element is not sourceless.

VVLL

Current version/level for the element, within this stage.

Current Date

Level date for the current level. Format ddMMMyy.

Generate Date

Generate processor date. This field is blank if the element has not yet been processed. See the proc rc field on the Element Master Info panel for information about maxrc and Restore/Transfer as they relate to this date. Format ddMMMy.

RC PROC

Processor return code. Stored for the element on the Master Control File.

NDVR RC

CA Endeavor SCM return code. Stored for the element on the Master Control File.

Last Action

Last action recorded for the element.

The Summary of Levels Panel

The Summary of Levels panel appears from the Display Elements panel when you request option **S** on the Display Elements panel and uniquely qualify the element you want. The **S** display option cannot be used against a sourceless element.

Note: This panel can also be requested during footprint display processing and functions identically as described here. For more information, see [Displaying Footprint Information](#) (see page 46).

The top part of this panel displays identification information about the element. The bottom part provides a summary of the element-level (source-level) history, listing each level of the element in the stage requested and information appropriate to that level.

Use this panel to view the summary information and, optionally, to request additional information for one or more of the levels listed at the bottom of the panel. To request further information, type **B**, **C** or **H** (as described above for the Display Elements panel) to the left of the levels about which you want information. Then press ENTER.

Note: For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

If you do not want to request additional information, press PF3 when you are finished with this panel.

The following Identification Fields specify the CA Endeavor SCM location of the element. All fields are display-only.

Environment

Current environment.

System

Name of the system under which the element is defined.

Subsystem

Name of the subsystem under which the element is defined.

Element

Name of the element for which summary information is displayed.

Type

Name of the type for the element.

Stage

ID of the stage for which element information is shown.

The following Source Level Information Fields display summary information about all levels of this element. All fields except the SELECTION field are display-only.

Selection (no title)

Used to select an element level for additional information. Type one of the following codes in this column to the left of each element level for which you want to display additional information: Element Browse (B), Element Changes (C), or Element History (H).

VVLL

Version/level for which information is shown to the right (in VVLL format).

User

Level user ID.

Date

Level date (in ddMMMy format).

Time

Level time (in hh:mm format).

Stmts

Number of statements in this level.

Inserts

Number of statements inserted for the level.

Deletes

Number of statements deleted for the level.

Sync

Indicates whether this level is a sync level.

The Element Master Panels

Master Control File information for elements appears on two Element Master panels. The first of these two Element Master panels appears from the:

- Display Elements panel when you request option **M** and uniquely qualify the element you want.
- Library Selection List panel. For more information, see [Displaying Footprint Information](#) (see page 46).

Use the Element Master panels to review the information shown, and then press PF3 when you are finished.

To view the second Element Master panel, press ENTER. Press PF3 when you are finished.

Identification Fields

The Identification Fields identify the element for which the Master Control File information appears.

Element

Name of the element.

Environment (Env)

Environment in which the element is defined.

System (Sys)

System in which the element is defined.

Subsystem (Sub)

Subsystem in which the element is defined.

Type

Type to which the element has been assigned.

Processor Group (Proc Grp)

Name of the processor group for this element.

Stage (Stg)

Stage in which this element resides.

Version/level (VVLL)

Version and level of this element.

Last Action

Last action performed against this element.

Description

Description of the last action. This information comes from the comment associated with the last action.

Signout ID

User ID of the person to whom the element is signed out.

Package ID (Source)

ID of the package that last affected the source form of this element. (Applies only to package processing.)

Package ID (Output)

ID of the package that created the current generated (or output) form of this element. (Applies only to package processing.)

Note: Backing out and backing in packages can affect the value that appears in this field. For example, assume this element is part of two packages, PKG1 and PKG2. The following table shows the effect of four activities involving these packages on the PKG ID (SOURCE) and the PKG ID (OUTPUT) fields.

ACTION	PKG ID (SOURCE)	PKG ID (OUTPUT)
Execute PKG1	PKG1	PKG1
Execute PKG2	PKG2	PKG2
Back out PKG2	PKG2	PKG1
Back in PKG2	PKG2	PKG2

Backing out PKG2 caused the output form of this element to revert to its state in PKG1. Subsequently backing in PKG2 then caused the output form of this element to revert to its state in PKG2.

Keep in mind, however, that package actions (package backing in/out) are not available in the interface. These fields may indicate the above conditions created through CA Endeavor SCM.

Locked for Pkg

When the element locking feature has been enabled in the CA Endeavor SCM Options Table (ENCOPTBL), this field displays the package which has secured (locked) the element.

Last Element Modification Fields

The Last Element Modification Fields provide information concerning the last action that changed the source and/or output form of element in some way.

Userid

User ID of person who requested the action.

Date/Time

Date and time of the action.

CCID

CCID specified for the action.

Comment

Comment specified for the action.

Action

Name of the CA Endeavor SCM action that was performed.

Endevor Return Code (NDVR RC)

Return code when the action was performed.

Processor

Name of the processor invoked by the action.

Processor Return Code (Proc RC)

Return code from processor execution.

The message “*FAILED*” appears here if the code exceeded the MAXRC for any step of the processor. (The MAXRC specification is described for processors in the CA Endeavor SCM Administration Guide.)

The message “*PROC'D?*” appears here if the element has been restored (or transferred to CA Endeavor SCM from an archive data set), but has not yet been processed. This indicates that the status of the processor information taken from the archive data set during the Restore (or Transfer) may be out of sync with the current processor output, if any. For example, if you deleted the element at the time it was last archived, the processor output would have been deleted as well; however, the processor information in the archive data set for the element remained and was restored and/or transferred along with the other information for the element.

If an entry stage element has the “*FAILED*” or “*PROC'D?*” message here, it cannot be moved to the next mapped stage and can only be transferred upon explicit request, by specifying the IGNORE GENERATE FAILED option. You can specify this option only using the Edit panel (option 2 of the Batch Options Menu).

Current Source Fields

These fields provide information about the current source for the element.

Note: For a description of the USERID, DATE/TIME, CCID, and Comment fields, see [Last Element Modification Fields](#) (see page 36).

ADD/UPDATE FROM DSN

Identifies the data set from which the element was added.

DELTA FMT

Indicates whether the element changes are stored in forward (F) or reverse (R) delta format.

Generate Fields

These fields provide information about the last action run against this element that caused output to be generated.

Note: For a description of the USERID, DATE/TIME, CCID, and Comment fields, see [Last Element Modification Fields](#) (see page 36).

COMPONENT LIST VVLL

Identifies the latest version and level of the component list for this element.

Element Master Panel 2

To view the second Element Master panel

1. Press ENTER.
The second Element Master Panel appears.
2. Press PF3 when you are finished.

Retrieve Fields

These fields provide information only when the last action performed against this element was Retrieve. Otherwise the fields will be empty.

Note: For a description of the USERID, DATE/TIME, CCID, and Comment fields, see [Last Element Modification Fields](#) (see page 36).

RETRIEVE TO DSN

Identifies the target data set for the Retrieve action.

Base Fields

These fields provide information about the base level of this element. They show the user ID of the person who created the base level, the date and time that the base level was created, and the comment that was entered for the Add action that created the base level.

From CA Endeavor SCM Location Fields

Information displays in these fields when this element has been moved or transferred from another CA Endeavor SCM location. They show the user ID of the person who requested the Move or Transfer action, the date and time that the action was performed, and the name of the action (Move or Transfer).

Note: For a description of these fields, see [Identification Fields](#) (see page 34).

The Element Browse Panel

The Element Browse panel appears from the following panels:

- Display Elements panel when you request option **B** and uniquely qualify the element you want.
- Summary of Levels panel when you type **B** next to an element level.
- Library Selection List panel. For more information, see [Displaying Footprint Information](#) (see page 46).

Note: Sourceless elements cannot be browsed. For elements of log delta format, only the current (last) level of the element can be browsed.

The Element Browse panel displays all the statements in the level of the element requested, and identifies the level at which each statement was first inserted. If the panel is returned from the Display Elements panel or the Library Selection List, the level requested is assumed to be the current level. To browse a previous level of the element, first request the Summary of Levels panel, then specify the level you want (and option **B**) using that panel.

Review the information shown, then press PF3 when you are finished.

Source Level Information

This area summarizes each element level, up to the level requested. If you are browsing the current level of the element, this area provides information about the last time the element was processed by the generate or move processor, and/or retrieved. All fields are display-only.

VVLL

Number that identifies the level of the element described on this line (in VVLL format).

User

Level user ID.

Date

Level date (in ddMMMy format).

Time

Level time (in hh:mm format).

Stmts

Number of statements in this level.

CCID

Level change control ID.

Comment

Level comment.

GENERATED

Information about the last run of the generate processor for any level of the element. This data includes the ID of the user who requested the associated action, the date and time of the Generate action, the number of statements processed, and CCID and comments associated with the action, if any.

If the generate processor has not been run for the element, this line reads: THIS ELEMENT HAS NOT BEEN PROCESSED.

If the element has been restored (or transferred to CA Endeavor SCM from an archive data set), but has not yet been generated, this line reads: PROCESS?? (instead of GENERATED). This indicates that the status of the generate processor information taken from the archive data set during the Restore (or Transfer) may be out of sync with the current processor output, if any. For example, if you deleted the element at the time it was last archived, the processor output was deleted as well. The processor information in the archive data set for the element remained, however, and was restored/transferred along with the other information for the element.

RETRIEVED

Information to describe the last time any level of the element was retrieved. This data includes the ID of the user responsible, date and time of the Retrieve action, and any comments associated with the processing.

If an element has been moved, signed in (using the Signin action), restored, or transferred to CA Endeavor SCM from an archive data set since the last Retrieve, any information related to the last Retrieve is blanked out and is not reflected here.

Element Statements

This area lists each statement in the element as of the level requested. For each statement, it identifies the level at which the statement was inserted (and deleted, as appropriate). A percent (%) sign marks those statements that were inserted as of the level displayed.

Level (no title) columns 1-11

Display-only. Level at which the statement shown to the right was inserted into the element (+III). For statements inserted as of this level, a percent sign (%) precedes the level number.

Text (no title) columns 13-n

Display-only. Text of the statement.

The Element Changes Panel

The Element Changes panel appears from the:

- Display Elements panel when you request option **C** and uniquely qualify the element you want.
- Summary of Levels panel when you type **C** next to an element level.
- Library Selection List panel (described in “Displaying Footprint Information” later in this chapter).

Note: You cannot browse element changes for sourceless elements or elements of log or image delta format.

The Element Changes panel displays all inserts and deletions made to the element for the level requested (that is, between the level immediately preceding and this level). If the panel is returned from the Display Elements panel or the Library Selection List, the level requested is assumed to be the current level. To view the changes to a previous level of the element, first request the Summary of Levels panel, then specify the level you want (and option **C**) using that panel.

Review the information shown, then press PF3 when you are finished.

Panel Title and Element Identification

This area displays the panel title, “Element Changes,” with the current date and time shown to the right (ddMMMyy hh:mm). The fields identify the element whose source information is displayed. All fields are display-only.

Environment

Name of the environment in which the element is defined.

System

Name of the system under which the element is defined.

Subsystem

Name of the subsystem under which the element is defined.

Element

Name of the element.

Type

Element type.

Stage

ID of the stage in which the element resides.

Source Level Information

This area summarizes each element level, up to the level requested. If you are browsing the current level of the element, this area provides information about the last time the element was processed by the generate or move processor, and/or retrieved. All fields are display-only.

VVLL

Number that identifies the element level described on this line (in VVLL format).

User

Level user ID.

Date

Level date (in ddMMMy format).

Time

Level time (in hh:mm format).

Stmts

Number of statements in this level.

CCID

Level change control ID.

Comment

Level comment.

GENERATED

Information to describe the last time the generate processor was run for any level of the element. This data includes the ID of the user who requested the associated action, the date and time of the Generate action, the number of statements processed, and CCID and comments associated with the action, if any.

If the generate processor has not been run for the element, this line reads: THIS ELEMENT HAS NOT BEEN PROCESSED.

If the element has been restored (or transferred to CA Endeavor SCM from an archive data set), but has not yet been generated, this prompt reads: PROCESS?? (instead of GENERATED). This indicates that the status of the generate processor information taken from the archive data set during the Restore (or Transfer) may be out of sync with the current processor output, if any. For example, if you deleted the element at the time it was last archived, the processor output would have been deleted as well. The processor information in the archive data set for the element remained, however, and was restored/transferred along with the other information for the element.

RETRIEVED

Information to describe the last time any level of the element was retrieved. This data includes the ID of the user responsible, date and time of the Retrieve action, and any comments associated with the processing. If an element has been moved, signed in (using the Signin action), restored, or transferred to CA Endevor SCM from an archive data set since the last Retrieve, any information related to the last Retrieve is blanked out and is not reflected here.

Element Statements

This area lists each statement in the element that changed as of the requested level. For statements that were deleted, this area indicates the level at which the previous form of the statement was inserted. These fields are display-only.

Level (no title) columns 1-11

Level at which the statement to the right was inserted into the element (+IIII). If the statement was deleted as of the level being displayed, a second number displays (+IIII-IIII). Either the add (+IIII) or the delete (-IIII) number references the level displayed.

Text (no title) columns 13-n

Text of the statement.

The Element History Panel

The Element History panel appears from the:

- Display Elements panel when you request option **H** and uniquely qualify the element you want.
- Summary of Levels panel when you type **H** next to an element level.
- Library Selection List panel. For more information, see [Displaying Footprint Information](#) (see page 46).

Note: You cannot browse element history for sourceless elements or elements of log or image delta format.

The Element History panel displays all statements that ever existed in the element, from the base level through the level requested. For each statement, the display identifies the level at which the statement was first inserted and the level at which it was deleted (using an Update action), if appropriate.

If the panel is returned from the Display Elements panel or the Library Selection List, the level requested is assumed to be the current level. To view the history of the element as of a previous level, first request the Summary of Levels panel, then specify the level you want (and option H) using that panel.

Review the information shown, then press PF3 when you are finished.

Panel Title and Element Identification

This area displays the panel title, "Element Changes," with the current date and time shown to the right (ddMMMyy hh:mm). The fields identify the element whose source information is displayed. All fields are display-only.

Environment

Name of the environment in which the element is defined.

System

Name of the system under which the element is defined.

Subsystem

Name of the subsystem under which the element is defined.

Element

Name of the element.

Type

Element type.

Stage

ID of the stage in which the element resides.

Source Level Information

This area summarizes each element level, up to the level requested. If you are browsing the current level of the element, this area provides information about the last time the element was processed by the generate or move processor, and/or retrieved. All fields are display-only.

VVLL

Number that identifies the element level described on this line (in VVLL format).

User

Level user ID.

Date

Level date (in ddMMMyy format).

Time

Level time (in hh:mm format).

Stmts

Number of statements in this level.

CCID

Level change control ID.

Comment

Level comment.

GENERATED

Information to describe the last time the generate processor was run for any level of the element. This data includes the ID of the user who requested the associated action, the date and time of the Generate action, the number of statements processed, and CCID and comments associated with the action, if any.

If the generate processor has not been run for the element, this line reads: THIS ELEMENT HAS NOT BEEN PROCESSED.

If the element has been restored (or transferred to CA Endeavor SCM from an archive data set), but has not yet been generated, this prompt reads: PROCESS?? (instead of GENERATED). This indicates that the status of the generate processor information taken from the archive data set during the Restore (or Transfer) may be out of sync with the current processor output, if any. For example, if you deleted the element at the time it was last archived, the processor output would have been deleted as well. The processor information in the archive data set for the element remained, however, and was restored/transferred along with the other information for the element.

RETRIEVED

Information to describe the last time any level of the element was retrieved. This data includes the ID of the user responsible, date and time of the Retrieve action, and any comments associated with the processing. If an element has been moved, signed in (using the Signin action), restored, or transferred to CA Endeavor SCM from an archive data set since the last Retrieve, any information related to the last Retrieve is blanked out and is not reflected here.

Element Statements

This area lists each statement in the element that changed as of the requested level. For statements that were deleted, this area indicates the level at which the previous form of the statement was inserted. These fields are display-only.

Level (no title) columns 1-11

Level at which the statement to the right was inserted into the element (+IIII). If the statement was deleted as of the level being displayed, a second number displays (+IIII-IIII). Either the add (+IIII) or the delete (-IIII) number references the level displayed.

Text (no title) columns 13-n

Text of the statement.

Displaying Footprint Information

Footprints are trace (identification) information placed in source, object, and load modules by CA Endeavor SCM, to associate those modules with a particular element. Footprinting is the technique used by CA Endeavor SCM to keep the data sets associated with each element synchronized. Once established, a footprint is used wherever applicable by CA Endeavor SCM, to validate each data set associated with an element.

A footprint includes the following information related to the associated element, in encrypted format: site ID, environment name, stage number, system name, subsystem name, element name, element type, element version/level, and the date and time the footprint was assigned.

Footprints are recorded automatically in the CA Endeavor SCM libraries during action processing. Depending on the type of data set used for the library, footprints are stored as follows: for a PDS, in the user data area of the directory; for CA Librarian, as a history record; for CA Panvalet, as a COMMENT field. Through processors, footprints can also be added to output source, object, and load-module data sets for an element, to associate those data sets with the element. In this case, footprints are stored as described above, with the exception of load-module data sets. In load-module data sets, the footprint is stored separately for each CSECT, in the user IDR record for the load module.

Note: For more information about footprints, see the *Footprints Guide*.

The Footprint Display Panel

Select option **2** from the Roscoe Interface Primary Options Menu to display the Footprint Display panel. Use this panel to identify the library for which you want to display footprint information, as well as the type of information you want to see. Press Enter when you have supplied the information requested.

Option **2** on the Roscoe Interface Primary Options Menu allows you to access CA Endeavor SCM footprints stored in PDS, CA Librarian, or CA Panvalet libraries. Specifically, you can:

- Display a list of members in a library, including the footprint information for each nonload member (for those members that have been footprinted).
- Display a list of CSECTs for a specific load member, including the footprint information for each CSECT.
- Request a browse panel for a nonload member in an output or listing library, including the source output library, generate processor output library, or move processor output library. In order to request the browse, the member in the output or listing library must be footprinted.
- Request any of the element displays for a particular member or CSECT. These are the Summary of Levels panel, Element Browse panel, Element History panel, Element Changes panel, and the Element Master Info panel. If the element does not exist at the location defined by the footprint, the request is executed against the first element located higher up in the map. This option is only available for members/CSECTs that are footprinted.

Note: You cannot display a footprint in a member that resides in a Roscoe library or in the Roscoe workspace (AWS).

Footprint Display Panel Fields

The interface returns the Footprint Display panel when you select option **2** from the Roscoe Interface Primary Options Menu.

OPTION

Specify the information you want to see. This field can contain the following values:

Blank

Displays a Library Selection List of members in the specified library, including the footprint information for each nonload member, if available. This panel does not include footprint information for load library members, because there is a separate footprint for each CSECT.

The MEMBER and THRU MEMBER fields can be inserted, optionally, to define the range of members you want listed. The interface returns the Library Selection List panel, showing all members in the library (within the range requested, if applicable).

I

Displays footprint information for a specific load module. Before selecting this option, make sure you identify the library and member in which the load module is stored. The interface returns the CA Endeavor SCM Load Module IDR Display panel for the member selected, showing the footprint for each (footprinted) CSECT. Any CSECTs that are not footprinted appear in the list, with the footprint area blank.

L

Displays the contents of a specific nonload library member. In order to use this option, the member must be footprinted. Before selecting option **L**, make sure you identify the library and member you want to display.

The interface returns a browse panel showing the member requested. Press PF3 when you are finished with the browse panel.

Partitioned or Sequential Data Set

Use this field to identify the library in which the members you want resides, and optionally the member name itself. The format is library (member name). If you enter an explicit member name and press Enter, a Library Selection List appears. To limit the list, you would also enter a thru member name to indicate that a range of members in the data set should be listed.

Data Set Name

Enter the appropriate data set name and, optionally, a member name.

Thru Member

Applicable when the OPTION field is blank. Name that defines the last member in the range to be listed. You can use a name mask to specify the MEMBER name or the THRU MEMBER name.

The Library Selection List

This panel is returned when you leave the Option field blank on the Footprint Display panel. It lists all the members in the library identified on that panel, limited by the range of member names requested, if any. For each nonload member that is footprinted, the footprint information is included in the display.

On the Library Selection List, the library displayed is identified under the panel title:

LIBRARY: library-name

You can select one or more members for additional information from the Library Selection List. Place the appropriate character to the left of each member you want and press Enter. You can request the following displays: the Load Module IDR Display (**I**), a browse display (**L**), or any of the standard element displays (**S**, **B**, **H**, **C**, or **M**).

The Library Selection List has the following fields:

Selection (untitled)

Use this field to select a member for additional information. Select any number of members for additional information by placing the appropriate character in this column. Except for option I, the footprint information must be displayed for a member in order to request one of these displays.

I

CA Endeavor SCM Load Module IDR Display, showing the footprint for each (footprinted) CSECT.

L

Browse panel showing the contents of the library member.

S, B, H, C, M

One of the reports described earlier in this section. These are the Summary of Levels (S) panel, the Element Browse (B) panel, the Element History (H) panel, the Element Changes (C) panel, or the Element Master Info (M) panel. You cannot issue S,B,H,or C against a sourceless element. If you do, you will receive an error. For elements of log delta format, options H and C are not valid and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

Member

The member field displays the name of the library member for which footprint information is provided.

Footprint

Display-only. These fields show information stored in the footprint for source, object, and processor output members.

System

Name of the system under which the element is defined.

Subsystem

Name of the subsystem under which the element is defined.

Element

Name of the element that corresponds to the member.

Type

Name of the element type.

S

Stage in which the element was processed to create this member.

VVLL

Version/level of the element processed to create this member (VVLL).

Date

Date the member was footprinted (ddMMMyy).

Time

Time the member was footprinted (hh:mm).

LD

An "LD" appears in this field to show that this footprint was created by the CA Endeavor SCM load utility. Load utility footprints cannot be used to verify element integrity. They indicate only the location to which the element was loaded, and the date and time the load took place.

The CA Endeavor SCM Load Module IDR Display Panel

This panel returns when you request option I on the Footprint Display panel (specifying a footprinted load module) or request option I on the Library Selection List. The panel lists each CSECT in the load module. For those CSECTs that are footprinted, it includes the footprint data.

The library and member for which the information is displayed are identified under the panel title:

LIBRARY: library-name

MEMBER: member-name

From this panel, either press **PF3** to return to the previous display or fill in a character to the left of a specific footprinted CSECT to request an element display. The following list describes the panel fields.

Selection (untitled)

Use this field to select a CSECT for additional information. Select any number of CSECTs by placing the appropriate character in this column. You can enter:

S, B, H, C, M

Enter a value to display the Summary of Levels (S) panel, the Element Browse (B) panel, the Element History (H) panel, the Element Changes (C) panel, or the Element Master Info (M) panel. You cannot issue S,B,H,or C against a sourceless element. If you do, you will receive an error. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

CSECT

Displays the name of the CSECT for which footprint information is shown. If no information is displayed, the CSECT has not been footprinted.

Footprint

Display-only. These fields show information stored in the CSECT's footprints.

System

Name of the system under which the corresponding element is defined.

Subsystem

Name of the subsystem under which the element is defined.

Element

Name of the CA Endeavor SCM element that corresponds to the CSECT.

Type

Name of the element type.

S

ID of the stage in which the element was processed to create this CSECT.

VVLL

Version/level of the element processed to create this CSECT (VVLL).

Date

Date the CSECT was footprinted (ddMMMyy).

Time

Time the CSECT was footprinted (hh:mm).

LD

An “LD” appears in this field to show that this footprint was created by the CA Endeavor SCM load utility. Load utility footprints cannot be used to verify element integrity. They indicate only the location to which the element was loaded, and the date and time the load took place.

The CA Endeavor SCM Browse Panel for a Footprinted Member

This panel is returned when you request option **L** on either the Footprint Display panel (with a footprinted nonload member specified) or on the Library Selection List. This browse panel is used to display the source for the member requested. Press PF3 when you are finished browsing the member, to return to the previous panel.

Retrieving Elements Using the Foreground Retrieve Action

The interface Foreground Retrieve Action allows you to retrieve, in foreground, a CA Endeavor SCM element into your Roscoe directory. Foreground Retrieve writes only to a Roscoe file. Sourceless elements cannot be retrieved in foreground.

You access the Roscoe Interface Foreground Retrieve Panel by selecting the RETRIEVE option (**4**) from the Roscoe Interface Primary Options Menu.

Note: Be careful when retrieving more than one element at a time. If you perform multiple retrieves, you could exceed your AWS line limit.

The Roscoe Interface Foreground Retrieve Panel has the following fields:

Option

Use this field to specify the processing you wish to perform.

Blank

Display a selection list, optionally restricted according to any specifications provided (environment, system name, etc.).

R

Retrieve the specified element to a user library.

S

Display the Summary of Levels panel. You can use this panel to retrieve a prior level. You can only retrieve the current (last) level for elements of log delta format.

M, B, C, H

Display one of the following element information panels: Element Master Info (M), Element Browse (B), Element Changes (C), or Element History (H).

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

From Location

Enter information defining the element being retrieved.

Environment

Name of the current environment. Enter a different name to retrieve an element from another environment.

System

Name of the system under which the element is defined. You can use a name mask to indicate that all systems, or only those matching the characters specified, be considered in this request.

Subsystem

Name of the subsystem under which the element is defined. You can use a name mask to indicate that all subsystems, or only those matching the characters specified, be considered in this request.

Element

The name of the element (up to 10 characters) to be retrieved. If the TO DATA SET is a library, you can leave this field blank; the member name in that library automatically becomes the element name. You also can use a name mask to indicate that all elements, or only those matching the characters specified, be considered in this request.

Element names can include only the following characters: A-Z, 0-9, @, #, and \$

Type

The element type, such as COBOL, COPYLIB, etc. You can use a name mask to indicate that all types, or only those matching the characters specified, be considered in this request.

Stage

Enter the ID of the stage from which you want to retrieve the element. Use one of the IDs listed to the right of this field. You also can use a name mask with this field.

Comment

Enter any comments describing this request. Depending upon the system specified for the request, comments may be required.

To Roscoe Library

Specify a member name in this field if you want the Retrieve action to create a member with that name.

Member

Enter the desired Roscoe Library member name. If an element list is generated, the Roscoe member name field is ignored and the element name or the RENAME value is used.

Action

These options provide additional information for the Retrieve request.

CCID

Specify a CCID to be associated with the element when it is retrieved.

Expand Includes

This option allows you to expand ++INCLUDE statements when the element is retrieved. Enter **Y** to expand INCLUDE statements. Enter **N** to indicate that INCLUDE statements should not be expanded. This is the default value.

No Signout

This option applies only if signin/signout is in effect for the system. NO SIGNOUT allows you to retrieve the element without signing it out to your user ID. This option enables another user to retrieve the element at the same time you are working with it. Similarly, you can retrieve a copy of an element currently in use by another user if that user has specified the NO SIGNOUT option. Enter **Y** to retrieve the element but not sign it out to your user ID. Enter **N** to retrieve the element and sign it out to your user ID. This is the default value.

Override Signout

This option applies only if the element to be retrieved is currently signed out. Enter **Y** to indicate that the element can be processed, even if it is not signed out to you. CA Endeavor SCM signs the element out to you if you specify this option. Enter **N** to indicate that processing is not allowed unless the element is signed out. This is the default value.

Replace Member

This option applies only if the to data set is a library. If you retrieve an element to a library, the system checks whether that element (member) currently resides in the library. If it does, the request normally is rejected. The REPLACE MEMBER option, however, allows you to replace a member currently in the library with the retrieved element. Enter **Y** to replace the member in the library. Enter **N** to reject the request if the member currently resides in the library. This is the default value.

List

These options allow you to specify the information you want to list.

Display List

This option is always set to Y.

Where CCID EQ

List only elements that match the specified CCID

Where PROC GRP EQ

List only elements that use the specified processor group.

Element Selection List for Retrieve Action

Interface returns an Element Selection List for the Retrieve action when you do not uniquely identify the element you want.

From this list, you can:

- Select one or more elements to be retrieved, by placing an **R** to the left of each element you want, and/or
- Request a detailed element display for one or more elements, by placing **S**, **M**, **B**, **C**, or **H** to the left of each element name.

Note: You cannot issue the R action or the B, C, H, or S display options against sourceless elements. If you do, you will receive an error. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

When you press Enter, the interface processes the requested elements and returns the panel with appropriate messages.

The Element Selection List panel contains the following fields:

From

Indicates the environment, system, and subsystem for the listed elements.

Selection (no title)

Use this field to select an element for processing.

Element

Display-only. Name of the element.

Message (no title)

This field displays a message, such as “*RETRIEVED.”

Stg

ID of the stage in which the element resides.

Type

Name of the type associated with the element.

NS

Indicates whether the element is a sourceless element. A value of Y indicates it is sourceless. If blank, the element is not sourceless.

VVLL

The current version/level for the element, at the stage shown.

A newname column appears on this panel. The user may enter a new member name here. If not, the element name will be the default.

Also, the panel's message area is at the same location as the newname. After the element is retrieved, *RETRIEVED will be displayed.

Chapter 4: Processing Elements in Batch

This section contains the following topics:

- [Accessing the Batch Options Menu](#) (see page 57)
- [Build SCL](#) (see page 58)
- [Displaying Element Information in Batch](#) (see page 60)
- [Adding and Updating Elements](#) (see page 60)
- [Retrieving Elements](#) (see page 67)
- [Generating Elements](#) (see page 73)
- [Moving Elements](#) (see page 77)
- [Deleting Elements](#) (see page 82)
- [Printing Elements](#) (see page 86)
- [Signin Elements](#) (see page 90)
- [Transferring Elements](#) (see page 93)
- [Printing Members](#) (see page 100)
- [Listing Elements](#) (see page 102)
- [Listing Members](#) (see page 107)
- [Archiving Elements](#) (see page 110)
- [Edit the Request Data Set](#) (see page 115)
- [Submit the Request Data Set](#) (see page 116)
- [Build the JCL for the Action Request](#) (see page 117)

Accessing the Batch Options Menu

To access the Batch Options Menu, select option **3** from the Roscoe Interface Primary Options Menu.

Use the Batch Option Menu to select the type of processing you want to use. Additional information may be required, depending on the processing you choose. The sections that follow describe the requirements for each option.

To make a selection from the Batch Options Menu, enter the option number in the OPTION field of the display and press Enter.

1 BUILD SCL

Create action requests and place them in a request data set. When you select this option, you must enter additional information on the panel; this information is described later in this section.

2 EDIT

Edit a request data set, either to change existing requests or add new requests.

3 SUBMIT

Submit a job that executes the action requests in batch. Before submitting the job, you can use option **5** to provide any additional JCL that should be included with this job.

4 VALIDATE

This option is not available with CA Endeavor CA Roscoe Interface 3.6 or later.

5 BUILD JCL

Define JCL (generally DD statements) to include with the JCL submitted with option **3**.

Build SCL

Use option **1**, BUILD SCL, to generate action requests and place them in a request data set.

The fields in the Batch Options Menu panel are described as follows:

Request Data Set

Specifies the request data set. This file must be a partitioned data set or a sequential file, and must be previously allocated.

DSNAME

Defines the appropriate data set name.

Note: If you prefer to create SCL requests within your CA Roscoe IE workspace (AWS), you can enter the keyword ROSCOE, and a member name. You can place the member name in brackets immediately following the keyword, or in the MEMBER field.

Member

Defines the name of the member in which you want to place your action requests.

Append

Specifies whether you want to add the new requests to the end of an existing data set (enter **Y**) or write over any existing information in the data set (enter **N**). This field is required with the BUILD SCL option.

Include JCL

Specifies whether you want to include JCL. You do not need to fill in this field when using the BUILD SCL option.

Job Statement Information

Specifies whether you want to include job statement information. You do not need to fill in this field when using the BUILD SCL option.

Press ENTER after you fill in all necessary information. The SCL Generation panel returns.

The SCL Generation Panel

Use the SCL Generation panel to request the type of action you want to generate. Note that the request data set and append information defined on the Batch Options Menu appear at the bottom of the screen.

To request the action you want, fill in the option number that corresponds to the action type and press Enter. The action performed by each option is described next:

1 Display

Displays element information before writing action requests for the element.

2 ADD/UPDATE

Adds or updates an element.

3 RETRIEVE

Copies an element to a user data set.

4 GENERATE

Generates an element.

5 MOVE

Moves an element from one map location to another.

6 DELETE

Removes an element and/or element component lists from either stage.

7 PRINT Element

Prints any of several detailed element reports showing element source, the history of the element, changes made to the element, summary of levels for the element, or Master Control File information about the element.

8 SIGNIN

Removes signout IDs from elements.

9 TRANSFER

Moves an element from a map location to a location not on the map.

10 PRINT Member

Prints or browses footprinted members from a library.

11 LIST Element

Lists elements from the Master Control File, where the list takes the form of action requests.

12 LIST Member

Lists or browses footprinted members from a library. Again, the list takes the form of action requests.

13 ARCHIVE

Writes the current version of an element to a sequential file (known as an archive data set), generally deleting it following the ARCHIVE.

After pressing ENTER, the action panel for the selected option is returned.

Displaying Element Information in Batch

You may perform display element functions by accessing the Batch Options Menu and selecting option **1**, BUILD SCL. The SCL Generation Panel appears. Then select option **1**, DISPLAY, to perform display functions.

Note: For more information about display element processing, see [Displaying Element Information in the Foreground](#) (see page 25).

Adding and Updating Elements

Use the Add/Update action to:

- Add an element to the environment's entry stage for the first time.
- Add an element to stage 1 (when it is the entry stage), for the first time, that currently resides in Stage 2.
- Add an element to the entry stage of the environment after it has been removed from that stage by a Move, Delete, Transfer, or Archive action.
- Update an element in the entry stage, creating a new level of the element.

The Add/Update Elements panel contains the following fields:

Option

Indicates the processing you wish to perform. The following options are available:

Blank

Displays a list of members in the source library. You can select one or more members to add or update.

A

Adds an element, either for the first time or after the prior version was deleted by a Delete, Move, Archive or Transfer action. Note that you can add an element only to the entry stage.

U

Updates an element in the entry stage to create a new level of the element.

To Location

Enter information defining the element being added or updated. The following options are available:

Environment

Name of the current environment. Enter a different name to add or update an element in another environment.

System

Name of the system under which the element is (to be) defined.

Subsystem

Name of the subsystem under which the element is (to be) defined.

Element

The name of the element (up to 10 characters) to be added or updated. If the from data set is a library, you can leave this field blank; the member name in that library automatically becomes the element name. You also can use a name mask to indicate that all elements, or only those matching the characters specified, should be considered in this request.

Element names can include only the following characters: **A-Z, 0-9, @, #, and \$**

Type

The element type, such as COBOL, COPYLIB, etc. This is a required field for an Add or Update action.

Action

These options provide additional information for the request. The following options are available:

Comment

Enter any comments describing this request. Depending upon the system specified for this request, comments may be required.

CCID

You can enter a CCID (up to 12 characters) to further define the element. Depending upon the system specified for this request, a CCID may be required.

Bypass Gen Processor

Specify **Y** (yes) if you want CA Endeavor SCM to bypass the generate processor for the element. If you select **Y**, the element or member will be added or updated, but the generate processor will not be executed for that element or member. In addition, CA Endeavor SCM will not set the generate or component delta CCID comments for the element.

Delete Input Source

Allows you to delete the member from the PDS, CA Panvalet or CA Librarian data set in which it originated, after the element is added successfully.

- Enter **Y** to delete the member after processing.
- Enter **N** to retain the member after processing.

Note: You cannot use this option to delete a member from the CA Roscoe IE library.

New Version

This option applies to an Add action only. By default, the element is assigned a version number of 1 if it is a new element, or the Stage 2 version number if the element currently exists in Stage 2. You can assign a different version number, however, by entering a number from 1 to 99 in this field.

Leave this field blank to apply the appropriate default value.

Override Signout

This option applies when adding an element currently in Stage 2 or when updating an element with signin/signout in effect.

- Enter **Y** to indicate that the element can be added or updated, even if it is not signed out to you. CA Endeavor SCM signs the element out to you if you specify this option.
- Enter **N** to indicate that processing is not allowed unless the element is signed out to you. This is the default value.

Processor Group

This is the name of the processor group to be used. If you leave this field blank and are adding a new element, the system uses the default processor group for the element type. If you leave this field blank and are adding an existing element or updating an element, the system defaults to the processor group last used for this element. You can also type a processor group name in this field or a name mask to access a list of processor groups from which to select.

Update if Present

This option applies to an Add action only. It allows you to add the element, even if it currently exists in the entry stage, by treating the action as an Update action.

- Enter **Y** to indicate that the element should be added even if it already exists in the entry stage.
- Enter **N** to indicate that the element should not be added to the entry stage if it currently exists there. This is the default.

From Partitioned or Sequential Data Set

Enter information defining the library or data set in which the element currently resides. The following options are available:

Data Set Name

Enter the appropriate data set name.

Member

Enter the appropriate member name; you can enter either the full name or use a name mask. If you leave this field blank, the member name defaults to the element name.

Thru Member

Use this field to specify a range of members in the data set. The member name entered here indicates the last member in the range, with the name specified in the MEMBER field considered as the first name in the range. You can enter either a full member name or use a name mask.

As an alternative, you can add a member from a CA Roscoe IE data set. The interface:

- Builds the SCL for the request as: **From DDNAME ROSCOE**.
- Appends an IEBUPDTE step to the beginning of the skeleton JCL to transfer the CA Roscoe IE member to a temporary data set. This temporary data set is then passed to a CA Endeavor SCM step under DDNAME ROSCOE.

List Options:

- This option is always set to Y.

The Member Selection List for the Add/Update Action

The Roscoe Interface returns a Member Selection List when the source data set is a library, and:

- You leave the OPTION field blank, and/or
- You leave both the ELEMENT and MEMBER fields blank or you use a name mask in either field.

The Member Selection List displays all the members in the source library (which includes the Roscoe library), optionally restricted according to any name mask and/or THRU MEMBER specified on the Add/Update Elements panel.

The FROM and TO information for the request are displayed at the top of the panel, above the member listing. The rest of the panel presents the members in the FROM data set.

From this list, you can:

- Select one or more members to be added, by placing an **A** to the left of each member you want, and/or
- Select one or more members to be updated, by placing a **U** to the left of each member you want.

The TYPE, COMMENT, and NEW VERSION fields are initially filled in for each member, according to the information provided on the Add/Update Elements panel. You can override the information in these fields before you select a member(s) for processing. You can also provide the element name, if it is different than the member name.

When you press Enter, the Roscoe Interface builds SCL for the Add/Update action, and then returns the panel with an appropriate message next to each member selected.

The Member Selection List contains the following fields:

From

Display-only. Indicates the FROM data set for the Add/Update request, as specified on the Add/Update Elements panel.

To

Display-only. Indicates the environment, system, subsystem, and stage under which the element is being added or updated.

Selection (no title)

Use this field to select a member for processing. Place an **A** in this column next to those members you want to add; place a **U** in this column next to those members to be updated.

Member

Display only. This is the name of the member(s) in the from data set.

Element

Name of the element (1-10 characters) being added or updated from the corresponding member. If you leave this field blank, the element name defaults to the member name.

If you are entering a new element, the name can include only the following characters: A-Z, 0-9, @, #, and \$.

This field is also used to display the message “*WRITTEN.”

Type

Type associated with the element to be added. This field is required; you can either use the existing data or enter a new type. You can add members to multiple types using one panel.

Comment

Comments describing the action requested. Depending on the system specified, comments may be required. You can either use the existing comment or enter a different one.

New Version

Applicable for an Add action only. This is the version number (vv) under which the element is being added. If you leave this field blank, the version number defaults to 01, if this is a new element, or to the Stage 2 version number, if the element currently exists in Stage 2. You can use a different version number if you want, from 01-99.

The Type Selection List

When you leave the type field blank or supply a name mask, CA Endeavor SCM returns a Type Selection List, which shows the element types defined to the system selected. The list is limited according to any type name mask specified.

Select the type you want by entering an **S** to the left of the type name. Then press Enter.

The Type Selection List contains the following fields:

Note: All fields except the SELECTION field are display-only.

Environment

Name of the environment you are using.

System

Name of the system under which the type is defined.

Stage

ID of the stage under which the type is defined.

Selection (no title)

Used to select a type. Place an S in this column to the left of the type you want.

Type

Name of the type.

Type Description

Description of the type.

The Processor Group Selection List

The Roscoe Interface displays the Processor Group Selection List when you specify a name mask or a partial group name on the Processor Group Display panel. It lists the processor groups currently defined for the specified system, stage, and type. From this list, you can:

- Select a group by placing an **S** to the left of the type name.
- Press PF3 to return to the Processor Group Display panel.

The Processor Group Selection List contains the following fields:

Note: All fields except the SELECTION field are display-only.

Environment

Name of the environment you are using.

System

Name of the system for which the processor groups are listed.

Stage

Name of the stage for which the processor groups are listed.

Type

Name of the type to which the processor group(s) applies.

Selection (no title)

Field used to select a processor group. Type an S in this column to the left of the processor group you want to select.

Processor Group

Name of the processor group.

Processor Group Description

Description of the processor group.

Retrieving Elements

The Retrieve action copies an element from CA Endeavor SCM to a user data set. Use the Retrieve Elements panel to identify the element being retrieved. Enter information in the following fields. You can retrieve a sourceless element in batch mode. CA Endeavor SCM will use the source from the next sourced element up the map providing that the last level timestamps between the sourceless and sourced elements are the same.

Note: Be careful when retrieving more than one element at a time. If you perform multiple retrieves, you could exceed your AWS line limit.

The Retrieve Elements panel contains the following fields:

Option

Use this field to specify the processing you wish to perform. The following options are available:

Blank

Display a selection list, optionally restricted according to any specifications provided (environment, system name, etc.).

R

Retrieve the specified element to a user library.

S

Display the Summary of Levels panel. You can use this panel to retrieve a prior level. This command is not valid when used against a sourceless element. For elements of log delta format, you can only retrieve the current (last) level.

M, B, C, H

Display one of the following element information panels: Element Master Info (M), Element Browse (B), Element Changes (C), or Element History (H). The B, C, and H display options are not valid when used against sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

From Location

Enter information defining the element being retrieved. The following options are available:

Environment

Name of the current environment. Enter a different name to retrieve an element from another environment.

System

Name of the system under which the element is defined. You can use a name mask to indicate that all systems, or only those matching the characters specified, be considered in this request.

Subsystem

Name of the subsystem under which the element is defined. You can use a name mask to indicate that all subsystems, or only those matching the characters specified, be considered in this request.

Element

The name of the element (up to 10 characters) to be retrieved. If the TO DATA SET is a library, you can leave this field blank; the member name in that library automatically becomes the element name. You also can use a name mask to indicate that all elements, or only those matching the characters specified, be considered in this request.

Element names can include only the following characters: A-Z, 0-9, @, #, and \$

Type

The element type, such as COBOL, COPYLIB, etc. You can use a name mask to indicate that all types, or only those matching the characters specified, be considered in this request.

Stage

Enter the ID of the stage from which you want to retrieve the element. Use one of the IDs listed to the right of this field. You also can use a name mask with this field.

Comment

Enter any comments describing this request. Depending upon the system specified for the request, comments may be required.

Action

These options provide additional information for the Retrieve request. The following options are available:

CCID

This is the name of the CCID associated with the request. The interface will set the retrieve CCID field to this value when it executes this request. A CCID may be required depending on the system being used.

Expand Includes

This option allows you to expand INCLUDE statements when the element is retrieved.

- Enter Y to expand INCLUDE statements.
- Enter N to indicate that INCLUDE statements should not be expanded. This is the default value.

No Signout

This option applies only if signin/signout is in effect for the system. NO SIGNOUT allows you to retrieve the element without signing it out to your user ID. This option enables another user to retrieve the element at the same time you are working with it. Similarly, you can retrieve a copy of an element currently in use by another user if that user has specified the NO SIGNOUT option.

- Enter Y to retrieve the element but not sign it out to your user ID.
- Enter N to retrieve the element and sign it out to your user ID. This is the default value.

Override Signout

This option applies only if the element to be retrieved is currently signed out.

- Enter Y to indicate that the element can be processed, even if it is not signed out to you. CA Endeavor SCM signs the element out to you if you specify this option.
- Enter N to indicate that processing is not allowed unless the element is signed out. This is the default value.

Replace Member

This option applies only if the TO DATA SET is a library. If you retrieve an element to a library, the system checks whether that element (member) currently resides in the library. If it does, the request normally is rejected. The REPLACE MEMBER option, however, allows you to replace a member currently in the library with the retrieved element.

- Enter Y to replace the member in the library.
- Enter N to reject the request if the member currently resides in the library. This is the default value.

To Partitioned or Sequential Data Set

Enter information defining the library or data set to which the element is being retrieved.

- **Data Set Name**—Enter the appropriate data set name.
- **Member**—Enter the appropriate member name; you can enter either the full name or use a name mask. If you leave this field blank, the member name defaults to the element name.

As an alternative, you can retrieve an element to a Roscoe data set. The following describes this retrieval action:

- To retrieve to your Roscoe data set, enter '**ROSCOE**' in the data set name field.
- The following ROSDATA JCL will be generated to import the member to your Roscoe data set:

```
//ROSCOE DD DSN=&&TEMP.,UNIT=SYSDA,SPACE=(TRK,(5,5,15))
//      DCB=(LRECL=80,BLKSIZE=3120,RECFM=FB),DISP=(,PASS)
//      EXEC ROSDATA,PARM='ROSCOE.CONTROL'
//STEPLIB DD DSN=ROSCOE.ROSLIB,DISP=SHR
//SYSPRINT DD SYSOUT=A
//ROSLIB00 DD DSN=ROSCOE.ROSLIB00,DISP=SHR
//ROSLIB01 DD DSN=ROSCOE.ROSLIB01,DISP=SHR
//ROSLIB02 DD DSN=ROSCOE.ROSLIB02,DISP=SHR
//FROMDD1 DD DSN=&&TEMP.,DISP=(OLD,DELETE)
//SYSIN DD DD*
$ADD MEMBER=membername, KEY=keyname
$FROM FROMDD1 (membername)
```

List Options:

- **Display List**—This option is always set to Y.
- **Where CCID EQ**—A CCID can be specified in this field to limit the selection list to only those elements whose last CCID is equal to the specified CCID. If omitted, the WHERE CCID EQ field is not used to limit the selection list.
- **Where PROC GRP EQ**—A processor group can be specified in this field to limit the selection list to only those elements to which the processor group has been assigned. If omitted, the WHERE PROC GRP EQ field is not used to limit the selection list.

The Element Selection List for the Retrieve Action

CA Endeavor SCM returns an Element Selection List for the Retrieve action when you:

- Leave the ELEMENT field and MEMBER field blank, or use a name mask for either of these fields, or
- Leave the element type blank or use a name mask, or

- Identify an element that resides in both stages, and/or
- Leave the OPTION field blank.

The Element Selection List shows all elements that match the criteria specified on the Retrieve Elements panel. The FROM and TO information is displayed at the top of the panel, above the element listing.

From this list, you can:

- Select one or more elements to be retrieved, by placing an **R** to the left of each element you want.
- Request a detailed element display for one or more elements, by placing the appropriate character (**S**, **M**, **B**, **C**, or **H**) to the left of each sourced element name. **S**, **B**, **C** and **H** are invalid display options for sourceless elements. For elements of log delta format, options **H** and **C** are not valid, and option **B** can only be used on the current (last) level of the element. For elements of image delta format, **H** and **C** are not valid.

The COMMENT field is initially filled in for each element, according to the information provided on the Retrieve Elements panel. You can override this entry before you select an element(s) for processing. If the output data set is a library, you can enter a NEWNAME, which then becomes the to MEMBER name.

When you press Enter, the Roscoe Interface performs the processing requested and returns the panel with the message “*WRITTEN” next to each element retrieved.

The Element Selection List contains the following fields:

From

Display-only. Indicates the environment, system, and subsystem for the element being retrieved.

To

Display-only. Indicates the to data set for the Retrieve action, as specified on the Retrieve Elements panel.

Selection (no title)

Use this field to select an element for processing. Place an **R** in this column next to each element to be retrieved. Place an **S**, **M**, **B**, **C**, or **H** in this column next to each element for which you want additional information. You cannot use the **S**, **B**, **C**, and **H** display options on sourceless elements. For elements of log delta format, options **H** and **C** are not valid, and option **B** can only be used on the current (last) level of the element. For elements of image delta format, **H** and **C** are not valid.

Element

Display-only. Name of the element.

Newname

Applicable for a Retrieve action if the output data set is a library. This is the name to be used as the output member name. If you leave this field blank, the output member name defaults to the element name. This field is also used to display the message “*WRITTEN.”

Stg

Display-only. ID of the stage in which the element resides.

Type

Display-only. Name of the type associated with the element.

NS

Indicates whether the element is a sourceless element. A value of Y indicates it is sourceless. If blank, the element is not sourceless.

VVLL

Display-only. This is the current level for the element, within the stage shown. By default, this is the level that is retrieved.

To retrieve a different level, access the Summary of Levels panel by placing an S to the left of the appropriate element (in the selection field). When that panel is returned, select the level you want to use. For more information, see [Retrieving Prior Versions](#) (see page 72).

Retrieving Prior Versions

In retrieve processing, the Summary of Levels panel provides specific functionality; that is, by specifying an **R** in the SELECTION field (to the left of the version number vv), you can retrieve prior versions of an element.

The Summary of Levels panel appears when you enter the option next to a particular element on the Retrieve Element Selection List.

Retrieving prior versions of an element using the Summary of Levels panel can only be done on sourced elements.

Generating Elements

The Generate action executes the generate processor for the current level of a CA Endevor SCM element. Use the Generate Elements panel to identify the element being generated.

The Generate Elements panel contains the following fields:

Option

Use this field to specify the processing you wish to perform. The following options are available:

Blank

Display a selection list, optionally restricted according to any specifications provided (environment, system name, etc.).

G

Execute the generate processor for the element.

S, M, B, C, H

Display one of the following element information panels:

- Summary of Levels (S)
- Element Master Info (M)
- Element Browse (B)
- Element Changes (C)
- Element History (H)

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

From Location

Enter information defining the element being generated. The following options are available:

Environment

Name of the current environment. Enter a different name to generate an element from another environment.

System

Name of the system under which the element is defined. You can use a name mask to indicate that all systems, or only those matching the characters specified, be considered in this request.

Subsystem

Name of the subsystem under which the element is defined. You can use a name mask to indicate that all subsystems, or only those matching the characters specified, be considered in this request.

Element

The name of the element (up to 10 characters) to be generated. You can use a name mask to indicate that all elements, or only those matching the characters specified, be considered in this request. Element names can include only the following characters: A-Z, 0-9, @, #, and \$

Type

The element type, such as COBOL, COPYLIB, etc. You can use a name mask to indicate that all types, or only those matching the characters specified, be considered in this request.

Stage

Enter the ID of the stage from which you want to generate the element. Use one of the IDs listed to the right of this field. You also can use a name mask with this field.

Comment

Enter any comments describing this request. Depending upon the system specified for the request, comments may be required.

Action

These options provide additional information for the Generate request. The following options are available:

CCID

You can enter a CCID (up to 12 characters) to further define the element(s) being generated. Depending on the system specified for this request, a CCID may be required.

Copyback

COPYBACK copies the current level of the source stage element back into the target stage, and then generates the element in the target stage. If the target stage has been specified in the request (that is, if the element currently resides in the target stage), however, the COPYBACK option cannot be used.

- When COPYBACK = Y, if you attempt to generate an element in the target stage that does not exist in that stage, the element is copied from source stage and then generated in the target stage. In this situation, the element remains unchanged in the source stage, and the version/level assigned in the target stage is the same as the version/level in the source stage.
- When COPYBACK = N, the element is generated in the stage you specify, providing the element exists in that stage.

You cannot specify COPYBACK = Y when you use a name mask in the stage field or when the source stage. is used.

The Element Selection List is affected by how you set COPYBACK:

- If COPYBACK = Y, stage must be 1 but the Element Selection List displays applicable elements from both stages.
- If COPYBACK = N, the Element Selection List displays elements from the stage specified on the Generate Elements panel.

Override Signout

This option applies only when signin/signout is in effect for the specified system.

- Enter **Y** to process the element even if it is not signed out to you. CA Endeavor SCM signs the element out to you if you specify this option.
- Enter **N** to indicate that processing is not allowed unless the element is signed out to you. This is the default value.

Processor Group

This is the name of the processor group to be used. If you leave this field blank, the system defaults to the processor group last used for this element.

You can also type a processor group name in this field or use a name mask for a list of processor groups from which you can select.

List

The following list options are available:

Display List

This option is always set to Y.

Where CCID EQ

A CCID can be specified in this field to limit the selection list to only those elements whose last CCID is equal to the specified CCID. If omitted, the WHERE CCID EQ field is not used to limit the selection list.

Where PROC GRP EQ

A processor group can be specified in this field to limit the selection list to only those elements to which the processor group has been assigned. If omitted, the WHERE PROC GRP EQ field is not used to limit the selection list.

The Element Selection List for the Generate Action

The Roscoe Interface returns an Element Selection List for the Generate action when you do not uniquely identify the element you want. The Element Selection List shows all elements that match the criteria specified on the Generate Elements panel.

From this list, you can:

- Select one or more elements to be generated, by placing a **G** to the left of each element you want, and/or
- Request a detailed element display for one or more elements, by placing an appropriate character (**S**, **M**, **B**, **C**, or **H**) to the left of each element name. S, B, C and H are invalid display option for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

When you press Enter, the Roscoe Interface generates the SCL required for processing and returns the panel with an appropriate message next to any generated element(s).

The Element Selection List contains the following fields:

From

Display-only. Indicates the environment, system, and subsystem for the element being generated.

Selection (no title)

Use this field to select an element for processing.

Element

Display-only. Name of the element.

Message (no title)

This field displays a message, such as “*GENERATED.”

Stg

Display-only. ID of the stage in which the element resides.

Type

Display-only. Name of the type associated with the element.

NS

Indicates whether the element is a sourceless element. A value of Y indicates it is sourceless. If blank, the element is not sourceless.

VVLL

Display-only. The current version/level for the element, within the stage shown.

Comment

Comments describing the Generate request. You can either use this comment or enter a different one.

Moving Elements

The Move action moves an element from one inventory location (the FROM CA Endeavor SCM location) to the next location on a map route. You can move elements either with history or without history.

The Move Elements panel contains the following fields:

Option

Use this field to specify the processing you wish to perform. The following options are available:

Blank

Display a selection list, optionally restricted according to any specifications provided (environment, system name, etc.).

O

Move the element from the source stage to the target stage.

S, M, B, C, H

Display one of the following element information panels:

- Summary of Levels (S)
- Element Master Info (M)
- Element Browse (B)
- Element Changes (C)
- Element History (H)

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

From Location

Enter information defining the element being moved. The following options are available:

Environment

Name of the current environment. Enter a different name to move an element in another environment.

System

Name of the system under which the element is defined. You can use a name mask to indicate that all systems, or only those matching the characters specified, be considered in this request.

Subsystem

Name of the subsystem under which the element is defined. You can use a name mask to indicate that all subsystems, or only those matching the characters specified, be considered in this request.

Element

The name of the element (up to 10 characters) to be moved. You can use a name mask to indicate that all elements, or only those matching the characters specified, be considered in this request. Element names can include only the following characters: A-Z, 0-9, @, #, and \$

Type

The element type, such as COBOL, COPYLIB, etc. You can use a name mask to indicate that all types, or only those matching the characters specified, be considered in this request.

Stage

This field is for display only, and contains the ID of the stage where the element resides. For a Move request, the ID always reflects the entry stage.

Comment

Comments describing the Move request. You can either use the existing comment or enter a different one.

Action

These options provide additional information about the Move request. The following options are available:

CCID

You can enter a CCID (up to 12 characters) to further define the element(s) being generated. Depending upon the system specified for this request, a CCID may be required.

SYNC

Normally, if the element(s) exists in both stages but the source location of the move base level differs from the target location of the move current level, the Move request is rejected. This happens because during the Add action CA Endeavor SCM verifies that the source location of the move base and the target location of the move current level are the same. The SYNC option enables you to perform the request, however, by allowing a new level to be created in the target location of the move even though the source location of the move base level is not equal to the target location of the move current level. It is advisable to research this condition before using the SYNC option.

- Enter **Y** to use the SYNC option. Exercise caution when using this option, as you could regress changes when the Move action is performed.
- Enter **N** to indicate that the Move should not be performed if the source location of the move base level is different than the target location of the move current level. This is the default value.

With History

The WITH HISTORY option preserves the source location of the move change history. If you request a MOVE WITH HISTORY, the system first ensures that the target location of the move current level is the same as the source location of the move base level. All levels of the element are then moved from the source location of the move to the target location of the move, and the source location of the move change history is appended to the target location of the move change history.

If you do not specify this option and differences exist between the source location of the move current level and the target location of the move current level, these differences are combined and recorded as a new level in the target location of the move.

- Enter **Y** to append the source location of the move change history to the target location of the move change history.
- Enter **N** to combine all the source location of the move change levels into one level to be moved into the target location of the move. This is the default value.

Retain Signout

This option tells CA Endeavor SCM to retain the source location signouts for all elements at the target location. This option applies only if the element was signed out at the target before the MOVE. If the element was signed out at the target before the MOVE, it will be signed out to that same ID at the target after the MOVE. If the element was not signed out at the target before the MOVE, it will not be signed out at the target after the MOVE. If you do not use this option, the element at the target location is not signed out, regardless of whether it was signed out at the target before the MOVE took place.

Signout To

This option tells CA Endeavor SCM to sign all elements out to the specified user ID at the target stage.

Acknowledge Elm Jump

The JUMP option tells CA Endeavor SCM to move elements across environments even if the element exists at an intermediate stage that is not on the map. If the element exists at an intermediate stage, the move fails if REQ ELM JUMP ACKNOWLEDGE=Y at the system level and the JUMP option is not coded.

In either case, CA Endeavor SCM issues a message informing you that the element exists in a non-map stage between the source and target stages of the move.

Bypass Element Delete

This option tells CA Endeavor SCM to retain the element in the source stage after successfully completing the move.

List

The following list options are available:

Display List

This option is always set to Y.

Where CCID EQ

A CCID can be specified in this field to limit the selection list to only those elements whose last CCID is equal to the specified CCID. If omitted, the WHERE CCID EQ field is not used to limit the selection list.

Where PROC GRP EQ

A processor group can be specified in this field to limit the selection list to only those elements to which the processor group has been assigned. If omitted, the WHERE PROC GRP EQ field is not used to limit the selection list.

The Element Selection List for the Move Action

CA Endeavor SCM returns an Element Selection List for the Move action when you do not uniquely identify the element you want. The Element Selection List shows all elements that match the criteria specified on the Move Elements panel.

From this list, you can:

- Select one or more elements to be moved, by placing an **O** to the left of each element you want, and/or
- Request a detailed element display for one or more elements, by placing the appropriate character (**S**, **M**, **B**, **C**, or **H**) to the left of each element name. S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

When you press Enter, the Roscoe Interface generates the SCL required for processing and returns the panel with an appropriate message next to each moved element.

The Element Selection List contains the following fields:

Note: All fields except the SELECTION field are display-only.

From

Indicates the environment, system, subsystem, and stage for the element being moved.

Selection (no title)

Use this field to select an element for processing. Place an **O** in this column next to each element to be moved. Place an **S**, **M**, **B**, **C**, or **H** in this column next to each element for which you want additional information. S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

Element

Name of the element.

Message (no title)

This field displays the message "WRITTEN."

Type

Name of the type associated with the element.

NS

Indicates whether the element is a sourceless element. A value of Y indicates it is sourceless. If blank, the element is not sourceless.

VVLL

The current version/level for the element, within the stage shown. This is the level that is moved.

Dates

These dates describe the processing related to the element (ddMMMy format):

- **Current**—The date for the current level.
- **Generate**—The generate processor date. This field is blank if the generate processor has not yet been run for the element.

Last Action

The last action recorded for the element.

NDVR RC

The CA Endeavor SCM return code stored in the Master Control File for the element.

Deleting Elements

The Delete action deletes all levels of an element. Use the Delete Elements panel to identify the element being deleted.

The Delete Elements panel contains the following fields:

Option

Use this field to specify the processing you wish to perform. The following options are available:

Blank

Display a selection list, optionally restricted according to any specifications provided (environment, system name, etc.).

#

Delete the element.

S, M, B, C, H

Display one of the following element information panels:

- Summary of Levels (S)
- Element Master Info (M)
- Element Browse (B)

- Element Changes (C)
- Element History (H)

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

From Location

Enter information defining the element being deleted. The following options are available:

Environment

Name of the current environment. Enter a different name to delete an element in another environment.

System

Name of the system under which the element is defined. You can use a name mask to indicate that all systems, or only those matching the characters specified, be considered in this request.

Subsystem

Name of the subsystem under which the element is defined. You can use a name mask to indicate that all subsystems, or only those matching the characters specified, be considered in this request.

Element

The name of the element (up to 10 characters) to be deleted. You can use a name mask to indicate that all elements, or only those matching the characters specified, be considered in this request. Element names can include only the following characters: A-Z, 0-9, @, #, and \$

Type

The element type, such as COBOL, COPYLIB, etc. You can use a name mask to indicate that all types, or only those matching the characters specified, be considered in this request.

Stage

Enter the ID of the stage from which you want to delete the element. Use one of the IDs listed to the right of this field. You also can use a name mask with this field.

Comment

Enter any comments describing this request. Depending upon the system specified for the request, comments may be required.

Action

These options provide additional information about the Delete action. The following options are available:

CCID

You can enter a CCID (up to 12 characters) to further define the element(s) being generated. Depending upon the system specified for this request, a CCID may be required.

Override Signout

This option applies only when signin/signout is in effect for the specified system.

- Enter **Y** to delete the element even if it is not signed out to you. CA Endeavor SCM signs the element out to you if you specify this option.
- Enter **N** to indicate that processing is not allowed unless the element is signed out to you. This is the default value.

Only Component

Applicable for CA Endeavor SCM ACM users only. Indicates whether you want to delete both the element component list and the element, or the element component list only.

- Enter **Y** to delete just the element component list
- Enter **N** to delete the element as well as the element component list. This is the default value.

List

The following List options are available:

Display List

This option is always set to Y.

Where CCID EQ

A CCID can be specified in this field to limit the selection list to only those elements whose last CCID is equal to the specified CCID. If omitted, the WHERE CCID EQ field is not used to limit the selection list.

Where PROC GRP EQ

A processor group can be specified in this field to limit the selection list to only those elements to which the processor group has been assigned. If omitted, the WHERE PROC GRP EQ field is not used to limit the selection list.

The Element Selection List for the Delete Action

The Roscoe Interface returns an Element Selection List for the Delete action when you do not uniquely identify the element you want. The Element Selection List shows all elements that match the criteria specified on the Delete Elements panel.

From this list, you can:

- Select one or more elements to be deleted, by placing a # to the left of each element you want, and/or
- Request a detailed element display for one or more elements, by placing the appropriate character (**S**, **M**, **B**, **C**, or **H**) to the left of each element. The S, B, C, and H display options are invalid for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

When you press Enter, the Roscoe Interface generates the SCL required for processing and returns the panel with an appropriate message next to each deleted element.

The Element Selection List contains the following fields:

Note: All fields except the SELECTION field are display-only.

From

Indicates the environment, system, and subsystem from which the element is being deleted.

Selection (no title)

Use this field to select an element for processing.

Element

Name of the element.

Message (no title)

This field displays the message "WRITTEN."

Stg

ID of the stage for the element.

Type

Name of the type associated with the element.

NS

Indicates whether the element is a sourceless element. A value of Y indicates it is sourceless. If blank, the element is not sourceless.

VVLL

This is the current version/level for the element, within the stage shown.

Dates

These dates describe the processing related to the element (ddMMMy format):

- **Current**—The date for the current level.
- **Generate**—The generate processor date. This field is blank if the generate processor has not yet been run for the element.

Last Action

This is the last action recorded for the element.

Printing Elements

The Print Elements action prints selected information about an element(s), in report format. Use this panel to identify the element for which you want information, as well as to select the type of report you want to print.

The Print Elements panel contains the following fields:

Option

Enter the appropriate code to receive the information/report you want. The following options are available:

Blank

Display a selection list, optionally restricted according to any specifications provided (environment, system name, etc.).

P Print element

Prints a browse report, which shows all statements in the current level of the element, as well as the level at which each statement was inserted. This is the default entry. This option is invalid for sourceless elements. For elements of log delta format, this option is only valid on the current (last) level of the element.

PC Print changes only

Prints a changes report, which shows all inserts and deletes made to the element as of the current level. This option is invalid for sourceless elements and elements of log delta format.

PS Print element summary

Prints a summary report, which includes one line of summary information for each level of the element. This option is invalid for sourceless elements.

PM Print master information

Prints an element master report, which lists Master Control File information for the element.

PH Print change history

Prints a history report, which lists all statements in all levels of the element, from the base level through the current level. This option is invalid for sourceless elements and elements of log delta format.

S, M, B, C, H

Display one of the following element information panels:

- Summary of Levels (S)
- Element Master Info (M)
- Element Browse (B)
- Element Changes (C)
- Element History (H)

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

From Location

Enter information defining the element to be printed. The following options are available:

Environment

Name of the current environment. Enter a different name to print an element from another environment.

System

Name of the system under which the element is defined. You can use a name mask to indicate that all systems, or only those matching the characters specified, be considered in this request.

Subsystem

Name of the subsystem under which the element is defined. You can use a name mask to indicate that all subsystems, or only those matching the characters specified, be considered in this request.

Element

The name of the element (up to 10 characters) to be printed. You can use a name mask to indicate that all elements, or only those matching the characters specified, be considered in this request. Element names can include only the following characters: A-Z, 0-9, @, #, and \$

Type

The element type, such as COBOL, COPYLIB, etc. You can use a name mask to indicate that all types, or only those matching the characters specified, be considered in this request.

Stage

Enter the ID of the stage from which you want to print the element. Use one of the IDs listed to the right of this field. You also can use a name mask with this field.

List

The following List options are available:

Display List

This option is always set to Y.

Where CCID EQ

A CCID can be specified in this field to limit the selection list to only those elements whose last CCID is equal to the specified CCID. If omitted, the WHERE CCID EQ field is not used to limit the selection list.

Where PROC GRP EQ

A processor group can be specified in this field to limit the selection list to only those elements to which the processor group has been assigned. If omitted, the WHERE PROC GRP EQ field does not limit the selection list.

The Element Selection List for the Print Elements Action

The Roscoe Interface returns this panel from the Print Elements panel or one of the list panels, when you do not uniquely identify a specific element. It lists all the elements that match the criteria specified on the Print Elements panel.

From this list you can:

- Select one or more elements to be printed, by placing a **P, PC, PS, PM, or PH** (depending on the report you want) to the left of each element you want. When you press ENTER, the Roscoe Interface generates the SCL required for processing and returns the panel with an appropriate message next to each element queued for print. P, PC, PS, and PH are invalid actions for sourceless elements.
- Request a detailed element display for one or more elements, by placing an appropriate character (**S, M, B, C, or H**) to the left of each element you want. Press PF3 to return to the previous panel. S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

The Element Selection List contains the following fields:

Note: All fields except the SELECTION field are display-only.

From

Identification of the environment, system, and subsystem from which the element is being printed.

Selection (no title)

Used to select an element to be processed.

Element

Name of the element.

Message (no title)

Used to display the message "WRITTEN."

Stg

ID of the stage for the element.

Type

Name of the type for the element.

NS

Indicates whether the element is a sourceless element. A value of Y indicates it is sourceless. If blank, the element is not sourceless.

VVLL

Current version/level for the element, within the stage shown.

Dates

Dates that describe the processing related to the element (in ddMMMy format):

- **Current**— Date for the current level.
- **Generate**— Generate processor date. This field is blank if the generate processor has not been run yet for the element.

Last Action

Last action recorded for the element.

Signin Elements

The Signin action removes a user signout associated with a particular CA Endeavor SCM element, allowing another user to access the element without overriding the signout. This action is available only for systems where signin/signout is in effect. Use the Signin Elements panel to identify the element being signed in.

The Signin Elements panel contains the following fields:

Option

Use this field to specify the processing you wish to perform. The following options are available:

Blank

Display a selection list, optionally restricted according to any specifications provided (environment, system name, etc.).

SI

Sign in the element.

S, M, B, C, H

Display one of the following element information panels:

- Summary of Levels (S)
- Element Master Info (M)
- Element Browse (B)
- Element Changes (C)
- Element History (H)

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

From Location

Enter information defining the element to be signed in. The following options are available:

Environment

Name of the current environment. Enter a different name to sign in an element in another environment.

System

Name of the system under which the element is defined. You can use a name mask to indicate that all systems, or only those matching the characters specified, be considered in this request.

Subsystem

Name of the subsystem under which the element is defined. You can use a name mask to indicate that all subsystems, or only those matching the characters specified, be considered in this request.

Element

The name of the element (up to 10 characters) to be signed in. You can use a name mask to indicate that all elements, or only those matching the characters specified, be considered in this request. Element names can include only the following characters: A-Z, 0-9, @, #, and \$

Type

The element type, such as COBOL, COPYLIB, etc. You can use a name mask to indicate that all types, or only those matching the characters specified, be considered in this request.

Stage

This field is for display only, and contains the ID of the stage where the element resides.

Action

These options provide additional information about the Signin request. The following options are available:

Override Signout

This option applies only when signin/signout is in effect for the specified system.

- Enter **Y** to sign in the element even if it is not signed out to you. CA Endeavor SCM signs the element out to you if you specify this option.
- Enter **N** to indicate that processing is not allowed unless the element is signed out to you. This is the default value.

Signout To

Used to sign out the element to another user. CA Endeavor SCM uses this user ID to set the SIGNOUT ID field (on the Element Master panel) for this element.

List

The following List options are available:

Display List

This option is always set to Y.

Where CCID EQ

A CCID can be specified in this field to limit the selection list to only those elements whose last CCID is equal to the specified CCID. If omitted, the WHERE CCID EQ field is not used to limit the selection list.

Where PROC GRP EQ

A processor group can be specified in this field to limit the selection list to only those elements to which the processor group has been assigned. If omitted, the WHERE PROC GRP EQ field is not used to limit the selection list.

Where User EQ

A signout user ID can be specified in the WHERE USER EQ field to limit the selection list to only those elements whose user ID is equal to the specified SIGNOUT USER ID.

The Element Selection List for the Signin Action

The Roscoe Interface returns this panel from the Signin Elements panel or one of the list panels, when you do not uniquely identify a specific element. This panel lists all the elements that match the criteria specified.

From this list you can:

- Select one or more elements to be signed in, by placing an **SI** to the left of each element name, and/or
- Request a detailed element display for one or more elements, by placing the appropriate character (**S**, **M**, **B**, **C**, or **H**) to the left of each element you want. S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

When you press Enter, the Roscoe Interface generates the SCL required for processing and returns the panel with an appropriate message next to each element that is signed in.

The Element Selection List contains the following fields:

Note: All fields except the SELECTION field are display-only.

From

Identification of the environment, system, and subsystem for the element being signed in.

Selection (no title)

Used to select an element.

Element

Name of the element.

Message (no title)

Used to display the message “*WRITTEN.”

Stg (Stage)

Stage where the element resides.

Type

Name of the element type.

NS

Indicates whether the element is a sourceless element. A value of Y indicates it is sourceless. If blank, the element is not sourceless.

VLL

Current version/level for the element, within the stage shown.

Signout User ID

ID of the user to whom the element is currently signed out.

Transferring Elements

The Transfer action transfers elements from one CA Endeavor SCM location to another. Use the Transfer Elements panel to identify the element being transferred. The Transfer action cannot be done against a sourceless element.

If you want to transfer an element to or from an archive data set, you must manually code the SCL for the action.

Note: For more information about manually coding the SCL, see [Edit the Request Data Set](#) (see page 115) and the *SCL Reference Guide*.

If you manually code a Transfer request to an archive data set, you cannot use “ROSCOE” as the archive (TO) data set. If you assign “ROSCOE” as the TO data set name, you receive an error message.

The Transfer Elements panel contains the following fields:

Option

Use this field to specify the processing you wish to perform. The following options are available:

Blank

Display a selection list, optionally restricted according to any specifications provided (environment, system name, etc.).

T

Generate an action request to transfer a sourced element from the From Location to the To Location.

S, M, B, C, H

Display one of the following element information panels:

- Summary of Levels (S)
- Element Master Info (M)
- Element Browse (B)
- Element Changes (C)
- Element History (H)

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

From Location

Define the location from which the element is being transferred. The following options are available:

Environment

Name of the current environment. Enter a different name to transfer an element from another environment.

System

Name of the system under which the element is currently defined. You can use a name mask to indicate that all systems, or only those matching the characters specified, be considered in this request.

Subsystem

Name of the subsystem under which the element is currently defined. You can use a name mask to indicate that all subsystems, or only those matching the characters specified, be considered in this request.

Element

The name of the element (up to 10 characters) to be transferred. You can use a name mask to indicate that all elements, or only those matching the characters specified, be considered in this request. Element names can include only the following characters: A-Z, 0-9, @, #, and \$

Type

The element type, such as COBOL, COPYLIB, etc. You can use a name mask to indicate that all types, or only those matching the characters specified, be considered in this request.

Stage

Enter the ID of the stage from which you want to transfer the element. Use one of the IDs listed to the right of this field. You also can use a name mask with this field.

To Location

Define the To Location for the element being transferred. The following options are available:

Note: You cannot use name masks with the To Location fields.

Environment

Name of the To Location environment. If you leave this field blank, the environment defaults to the FROM environment.

System

Name of the system under which the TO element is defined. If you leave this field blank, the system defaults to the FROM system entry.

Subsystem

Name of the subsystem under which the TO element is defined. If you leave this field blank, the system defaults to the FROM subsystem entry.

Element

The name under which the TO element will be stored. Enter an element name if you want to change the name specified in the FROM clause. Otherwise, the element name defaults to the FROM entry.

Note: You can enter a new element name here only if you coded a full element name as the FROM element name. Element names can include only the following characters: A-Z, 0-9, @, #, and \$

Type

Name of the to element type (such as COBOL, COPYLIB, etc.). If you leave this field blank, the type defaults to the FROM type entry.

Stage

The stage ID for the TO element. If you leave this field blank, the stage ID defaults to the FROM stage.

Comment

Enter any comments describing this request. Depending upon the system specified for the request, comments may be required.

List

The following List options are available:

Display List

This option is always set to Y.

Where CCID EQ

A CCID can be specified in this field to limit the selection list to only those elements whose last CCID is equal to the specified CCID. If omitted, the WHERE CCID EQ field is not used to limit the selection list.

Where PROC GRP EQ

A processor group can be specified in this field to limit the selection list to only those elements to which the processor group has been assigned. If omitted, the WHERE PROC GRP EQ field is not used to limit the selection list.

Action

These provide additional information about the Transfer request. The following options are available:

CCID

You can enter a CCID (up to 12 characters) to further define the element. Depending upon the system specified for this request, a CCID may be required.

Bypass Element Delete

Use the BYPASS ELEMENT DELETE option to retain the element in the From Location after it is transferred. Otherwise, the system automatically deletes that element after the Transfer action is completed.

- Enter **Y** to retain the element after it is transferred. This is the default value.
- Enter **N** to delete the element after it is transferred.

Bypass Gen Processor

Use this option if you want to bypass the generate processor for the element after it is transferred. Otherwise, the system looks for and executes the generate processor for that element.

- Enter **Y** to bypass (that is, not execute) the generate processor for the element after it is transferred. This is the default value.
- Enter **N** to execute the generate processor for the element after the Transfer action is completed.

Override Signout

This option applies only when signin/signout is in effect for the FROM system.

- Enter **Y** to transfer the element even if it is not signed out to you. CA Endeavor SCM signs the element out to you if you specify this option.
- Enter **N** to indicate that processing is not allowed unless the element is signed out to you. This is the default value.

Processor Group

The name of the processor group to be used. If you leave this field blank, the system defaults to the processor group last used for this element. You can also type a processor group name in this field or use a name mask to access a list of processor groups from which you can select.

Synchronize

This option applies when the element already exists in the To Location. The SYNCHRONIZE option is used in conjunction with the WITH HISTORY option. When you want to transfer an element with history, and the current level of the To Location element differs from the base level of the From Location element, you normally receive an error message and the transfer is not performed.

If you use this option, however, the system creates an intermediate level known as the synchronized level which contains the differences between the base level of the From Location element and the current level of the To Location element. All levels (change history) associated with the From Location element are then appended to the To Location element and renumbered.

- Enter **Y** if you want the Transfer action to be performed even though the base level of the FROM element differs from the current level of the TO element.
- Enter **N** if you do not want the Transfer action to be performed when the base level of the FROM element differs from the current level of the TO element. This is the default value.

With History

The WITH HISTORY option preserves From Location change history. If you request a TRANSFER WITH HISTORY, the system first ensures that the current level of the To Location element is the same as the current level of the From Location element. All levels of the element are then moved from the From Location to the To Location, and the From Location change history is appended to the To Location change history.

If you do not specify this option and differences exist between the current levels of the From Location element and the To Location element, these differences are combined and recorded as a new level in the To Location.

- Enter **Y** to append From Location change history to To Location change history.
- Enter **N** to combine ALL From Location change levels into one level to be moved into the To Location. This is the default value.

Retain Signout

This option tells CA Endeavor SCM to retain the source location signouts for all elements at the target location. This option applies only if the element was signed out at the source before the TRANSFER.

- If the element was signed out at the source before the TRANSFER, it will be signed out to that same ID at the target after the TRANSFER.
- If the element was not signed out at the source before the TRANSFER, it will not be signed out at the target after the TRANSFER.
- If you do not use this option, the element at the target location is not signed out, regardless of whether it was signed out at the target before the TRANSFER took place.

Signout To

This option tells CA Endeavor SCM to sign all elements out to the specified user ID at the target stage.

The Element Selection List for the Transfer Action

If you do not specify the element, type, stage, or option you want, the Roscoe Interface returns an Element Selection List. You can restrict this list to a particular range of elements by specifying an element name mask, or to specific element types by using a type name mask.

Use the list to:

- Select one or more elements to be transferred, by placing a **T** to the left of each sourced element you want, and/or
- Request a detailed element display for one or more elements, by placing an appropriate character (**S**, **M**, **B**, **C**, or **H**) to the left of each element you want.

The Element Selection List contains the following fields:

Note: All fields except the SELECTION and TO NAME fields are display-only.

From

Identification of the FROM environment, system, and subsystem for the element being transferred.

To

Identification of the TO environment, system, subsystem, and stage for the element being transferred.

Selection (no title)

Field used to select an element for processing. Place a T in this column next to each element to be transferred. Place an S, M, B, C, or H in this column next to each element for which you want additional information, as described for the Transfer Elements panel.

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

Element

Name of the FROM element.

To Name

Name of the TO element. This name defaults to the from element name.

Stg

Stage ID for the from element.

Type

Name of the element type for the from element.

NS

Indicates whether the element is a sourceless element. A value of Y indicates it is sourceless. If blank, the element is not sourceless.

VVLL

Current version/level for the element, within the stage shown.

Dates

Dates that describe the processing related to the element (in ddMMMy format):

- **Current**— The date for the current level.
- **Generate**— Generate processor date. This field is blank if the generate processor has not been run yet for the element.

Last Action

Last action recorded for the element.

Printing Members

The Print Members action prints information about library members. Use the Print Members panel to identify the library member.

The Print Members panel contains the following fields:

Option

Use this field to specify the processing you wish to perform. The following options are available:

Blank

Display a member list for the library named.

B

Show a Browse panel with the contents of a specific library member.

P

Generate an action request to print the member specified.

From Partitioned or Sequential Data Set

Define the library or data set in which the member currently resides. The following options are available:

Data Set Name

Enter the appropriate data set name.

Member

Enter the appropriate member name; you can use a name mask.

Thru Member

The name entered here indicates the last in the range, with the name specified in the MEMBER field considered as the first name in the range. You can enter a full member name or use a name mask.

List Options

The Display List option is always set to Y.

The Member Selection List for the Print Members Action

The Member Selection List appears when you do not fully specify the library members that you want to print or browse.

The Member Selection List panel shows the library being processed (FROM DATA SET). It lists each member in the library down the left-hand column, and the footprint information for that member (if any) to the right. This footprint information includes the system and subsystem for the associated CA Endeavor SCM element, the element name itself, the type for the element, the version and level of the element associated with this member, and the date/time the footprint was written.

Using this panel, you can:

- Select one or more members to be printed, by placing a **P** to the left of each member you want, and/or
- Select one or more members to be browsed, by placing a **B** to the left of each member you want.

Press ENTER to continue.

If you request BROWSE (**B**), the Roscoe Interface returns a Browse panel for the member. Press PF3 when you are through browsing the member, to return to the Member Selection List.

Listing Elements

The List Element action scans elements in the Master Control File and creates a list of elements that meet the criteria you enter on the List Element Action panel. This list takes the form of action requests for the elements. Use the List Element action panel to identify those elements to be listed.

You also can list elements from an archive data set. However, you must manually code the SCL for this action using the Edit screen.

Note: For more information about manually coding the SCL, see [Edit the Request Data Set](#) (see page 115) and the *SCL Reference Manual*.

In addition, you can create action requests to list members from a library. A separate panel List Members is used to perform this action; this panel is discussed in the next section of this chapter.

The List Element Action panel contains the following fields:

Option

Use this field to specify the processing you wish to perform. The following options are available:

Blank

Display a selection list.

L

Generate an action request to list the element(s) identified on the screen.

S, M, B, C, H

Display one of the following element information panels: Summary of Levels (S), Element Browse (B), Element History (H), Element Changes (C), or Element Master Info (M).

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

From Location

Enter information defining the element to be listed. The following options are available:

Environment

Name of the current environment. Enter a different name to list an element from another environment.

System

Name of the system under which the element is defined. You can use a name mask to indicate that all systems, or only those matching the characters specified, be considered in this request.

Subsystem

Name of the subsystem under which the element is defined. You can use a name mask to indicate that all subsystems, or only those matching the characters specified, be considered in this request.

Element

The name of the element (up to 10 characters) to be listed. You can use a name mask to indicate that all elements, or only those matching the characters specified, be considered in this request. Element names can include only the following characters: A-Z, 0-9, @, #, and \$.

Type

The element type, such as COBOL, COPYLIB, etc. You can use a name mask to indicate that all types, or only those matching the characters specified, be considered in this request.

Stage

Enter the ID of the stage for the element. Use one of the IDs listed to the right of this field. You also can use a name mask with this field.

List

The following List options are available:

Display List

This option is always set to Y.

Where CCID EQ

A CCID can be specified in this field to limit the selection list to only those elements whose last CCID is equal to the specified CCID. If omitted, the WHERE CCID EQ field is not used to limit the selection list.

Where PROC GRP EQ

A processor group can be specified in this field to limit the selection list to only those elements to which the processor group has been assigned. If omitted, the WHERE PROC GRP EQ field is not used to limit the selection list.

Text String

This option allows you to specify that only those elements containing a particular character string (as defined in this field) can be selected for the List action request. Enter the text string for which you want to search; you can code up to **70** characters. Enclose the string in quotes if it contains blanks or special characters.

If you use the SCAN COLUMNS option, you can restrict the search to specific columns only.

Scan Columns

This option applies only if you specify a text string. You can indicate that only a particular range of columns is to be searched for the text string indicated. For example, you may want to list only those elements with a specific character string contained within columns 25-45. If the text cannot be found within these columns, the element will not be selected for the list.

If you use this option, you must enter both a starting and an ending column. Enter the appropriate column numbers in the START and END fields on the panel.

Action to Be Generated When List is Created

Enter the type of action you want the List requests to generate. Specify any of the actions listed next:

- **&&ACTION**—Use this to specify actions at run time rather than when the list is first generated.
- ADD
- ARCHIVE
- COPY
- DELETE
- GENERATE
- LIST
- MOVE
- PRINT
- RESTORE
- RETRIEVE
- SIGNIN
- TRANSFER
- UPDATE

If you leave this field blank, the system defaults to **&&ACTION**.

Write List to Output Data Set

By default, the action cards generated from the list are written to the Batch Execution report. You can, however, have the list written to an output data set as well; simply enter the name of the data set in this field. Leave the field blank to write the list in the Execution report only. The List Output panel is presented to prompt you for the data set name.

Where Component EQ

A component can be specified in the WHERE COMPONENT EQ field to limit the selection list to only those elements containing the component(s) indicated.

The Element Selection List for the List Element Action

The Roscoe Interface returns an Element Selection List if you do not specify the element, type, stage, or option you want. You can restrict this list to a particular range of elements by specifying an element name mask, or to specific element types by using a type name mask. Use the list to select the element(s) you want.

Use the Element Selection List to:

- Select one or more elements to be listed, by placing an **L** to the left of each element you want, and/or

Request a detailed element display for one or more elements, by placing an appropriate character (**S**, **M**, **B**, **C**, or **H**) to the left of each element you want.

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

The Element Selection List contains the following fields:

Note: All fields except the SELECTION field are display-only.

From

Identification of the environment for the element being listed.

System

Identification of the system under which the element is defined.

Subsystem

Identification of the subsystem under which the element is defined.

Stage

Identification of the stage for the element.

Selection (no title)

Used to select an element for processing. Place an L in this column next to each element to be listed. Place an S, M, B, C, or H in this column next to each element for which you want additional information, as described for the List Element action panel.

Element

Name of the element.

Message (no title)

Used to display messages, such as "WRITTEN."

Type

Name of the element type.

NS

Indicates whether the element is a sourceless element. A value of Y indicates it is sourceless. If blank, the element is not sourceless.

VVLL

Current version/level for the element, within the stage shown.

Dates

Dates that describe the processing related to the element (in ddMMMy format):

- **Current**— The date for the current level.
- **Generate**— The generate processor date. This field is blank if the generate processor has not yet been run for the element.

Last Action

Last action recorded for the element.

NDVR

CA Endeavor SCM return code for the element.

The List Output Panel

If you specify WRITE LIST TO OUTPUT DATA SET = N on the List Elements panel, CA Endeavor SCM returns the Element Selection List.

If, however, you specify WRITE LIST TO OUTPUT DATA SET = Y on the List Elements panel, the Roscoe Interface returns the List Output panel.

The List Output panel contains the following fields:

Option

Leave this field blank.

Data Set Name

Enter the appropriate data set name.

Member

Enter the appropriate member name; you can specify either the full name or use a name mask.

Listing Members

The List Members action scans members in a library and lists the members that meet the remaining criteria entered in the List Members panel. This list takes the form of action requests for the members. Use the List Members panel to identify those members to be listed.

You also can list members from a library external to CA Endeavor SCM. However, you must manually code the SCL for this action using the Edit screen.

Note: For more information about manually coding the SCL, see [Edit the Request Data Set](#) (see page 115) and the *SCL Reference Manual*.

You can also create action requests which list elements from the Master Control File. A separate panel List Element action is used to perform this action; this panel is discussed in the previous section of this chapter.

The List Members panel contains the following fields:

Option

Use the OPTION field to specify the processing you want to perform. The following options are available:

Blank

Display a Member Selection List for the library named, optionally restricted according to any member name mask provided.

B

Return a Browse panel showing the contents of a specific library member.

L

Generate an action request to list the member specified.

From Partitioned or Sequential Data Set

Enter information defining the library or data set in which the member currently resides. The following options are available:

Data Set Name

Enter the appropriate data set name.

Member

Enter the appropriate member name; you can specify either the full name or use a name mask.

Thru Member

Use this field to print a range of members in the data set. The member name entered here indicates the last member in the range, with the name specified in the MEMBER field considered as the first name in the range. You can enter either a full member name or use a name mask.

List

The Display List option is always set to Y.

Text String

Use this option to specify that only those members containing a particular character string (as defined in this field) can be selected for the List request. Enter the text string for which you want to search; you can code up to **70** characters. Enclose the string in quotes if it contains blanks or special characters.

If you use the SCAN COLUMNS option, you can restrict the search to specific columns only.

Scan Columns

This option applies only if you specify a text string. You can indicate that only a particular range of columns is to be searched for the text string indicated. For example, you may want to list only those members with a specific character string contained within columns 25-45. If the text cannot be found within these columns, the member is not selected for the list.

If you use this option, you must enter both a starting and an ending column. Enter the appropriate column numbers in the START and END fields on the panel.

Actions to Be Generated When List is Created

Enter the type of action you want the List requests to generate. Specify any of the actions listed next:

- **&&ACTION**—Use this to specify actions at run time rather than when the list is first generated.
- ADD
- ARCHIVE
- COPY
- DELETE
- GENERATE
- LIST
- MOVE
- PRINT
- RESTORE
- RETRIEVE
- SIGNIN
- TRANSFER
- UPDATE

If you leave this field blank, the system defaults to **&&ACTION**.

Write List to Output Data Set

By default, the action cards generated from the list are written to the Batch Execution report. You can, however, have the list written to an output data set as well; simply enter the name of the data set in this field.

Leave the field blank to write the list in the Execution report only.

The Member Selection List for the List Member Action

When you leave the member name blank or supply a name mask, the Roscoe Interface returns a Member Selection List. The list is limited according to any member name mask specified on the List Members panel. Use the Member Selection List to select the member(s) you want to list or browse.

The Member Selection List shows the library being processed (FROM DATA SET). Each member in the library is listed in the left-hand column, and the footprint information for that member (if any) is listed to the right of the member name. Footprint information includes the system and subsystem for the associated CA Endeavor SCM element, the element name itself, the element type, the version and level of the element associated with this member, and the date and time the footprint was written.

Use the Member Selection List panel to:

- Select one or more members to be listed, by placing an **L** to the left of each member you want, and/or
- Select one or more members to be browsed, by placing a **B** to the left of each member you want.

Archiving Elements

The Archive action writes the current version (including the base level and all change levels) of a CA Endeavor SCM element to a sequential file, known as an archive data set. Use the Archive Elements panel to identify the element(s) being archived.

The Archive Elements panel contains the following fields:

Option

Use this field to specify the processing you want to perform. The following options are available:

Blank

Display a selection list, optionally restricted according to any specifications provided (environment, system name, etc.).

V

Generate an action request to archive the element(s) identified on the screen. The archive action is invalid for sourceless element. If you attempt to archive a sourceless element you will receive an error.

S, M, B, C, H

Display one of the following element information panels:

- Summary of Levels (S)
- Element Master Info (M)
- Element Browse (B)
- Element Changes (C)
- Element History (H)

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

From Location

Enter information defining the element to be archived. The following options are available:

Environment

Name of the current environment. Enter a different name to archive an element from another environment.

System

Name of the system under which the element is defined. You can use a name mask to indicate that all systems, or only those matching the characters specified, be considered in this request.

Subsystem

Name of the subsystem under which the element is defined. You can use a name mask to indicate that all subsystems, or only those matching the characters specified, be considered in this request.

Element

The name of the element (up to 10 characters) to be archived. You also can use a name mask to indicate that all elements, or only those matching the characters specified, be considered in this request. Element names can include only the following characters: A-Z, 0-9, @, #, and \$

Type

The element type, such as COBOL, COPYLIB, etc. You can use a name mask to indicate that all types, or only those matching the characters specified, should be considered in this request.

Stage

Enter the ID of the stage from which you want to archive the element. Use one of the IDs listed to the right of this field. You also can use a name mask with this field.

Comment

Enter any comments describing this request. Depending upon the system specified for this request, comments may be required.

Action

These provide additional information about the Archive request. The following options are available:

CCID

You can enter a CCID (up to 12 characters) to further define the element. Depending upon the system specified for this request, a CCID may be required.

Bypass Element Delete

Use the BYPASS ELEMENT DELETE option to retain the element in the From Location after it is archived. Otherwise, the system automatically deletes that element after the Archive action is complete.

- Enter **Y** to retain the element after it is archived. This is the default.
- Enter **N** to delete the element after it is archived.

Override Signout

This option applies only when signin/signout is in effect for the FROM system.

- Enter **Y** to archive the element even if it is not signed out to you. CA Endeavor SCM signs the element out to you if you specify this option.
- Enter **N** to indicate that processing is not allowed unless the element is signed out to you. This is the default value.

To File

Enter the DDNAME for the archive data set. Be sure to include the JCL for this data set when you submit the batch job for execution (specify **Y** in the INCLUDE JCL field on the Batch Options Menu).

The DCB must specify variable blocked records (RECFM=VB), and the DSORG should be PS. The minimum LRECL should be the greater of 3 times the maximum MCF-record length or the TYPE-LENGTH plus (+) 14. When archiving to disk, the recommended block size is one-half a track, and the recommended LRECL is one-half a track minus (-) 4 unless the previous rule requires a bigger LRECL/BLKSIZE. When archiving to tape, the recommended block size is 32760 and the recommended LRECL is 32756.

Note: You cannot archive an element to ROSCOE. If you assign ROSCOE as the TO data set name, you receive an error message.

List

The following List options are available:

Display List

This option is always set to Y.

Where CCID EQ

A CCID can be specified in this field to limit the selection list to only those elements whose last CCID is equal to the specified CCID. If omitted, the WHERE CCID EQ field is not used to limit the selection list.

Where PROC GRP EQ

A processor group can be specified in this field to limit the selection list to only those elements to which the processor group has been assigned. If omitted, the WHERE PROC GRP EQ field is not used to limit the selection list.

The Element Selection List for the Archive Action

The Roscoe Interface returns an Element Selection List if you do not specify the element, type, stage, or option you want. You can restrict this list to a particular group of elements by specifying an element name mask, or to specific element types by using a type name mask. Use the list to select the element(s) you want.

Use the Element Selection List panel to:

- Select one or more sourced elements to be archived, by placing a **V** to the left of each element you want, and/or
- Request a detailed element display for one or more elements, by placing an appropriate character to the left of each element for which you want to display information. The characters are **S** (display), **M** (element master), **B** (element browse), **C** (changes), or **H** (history).

The Element Selection List contains the following fields:

Note: All fields except the SELECTION field are display-only.

From

Environment, system, and subsystem for the element being archived.

To

DDNAME for the to archive data set.

Selection (no title)

Field used to select an element for processing. Place a V in this column next to each element to be archived; use S, M, B, C, or H to display element information.

Note: S, B, C, and H are invalid display options for sourceless elements. For elements of log delta format, options H and C are not valid, and option B can only be used on the current (last) level of the element. For elements of image delta format, H and C are not valid.

Element

Name of the element.

Message (no title)

Used to display the message “*WRITTEN.”

Stg

ID of the stage for the element.

Type

Name of the type for the element.

NS

Indicates whether the element is a sourceless element. A value of Y indicates it is sourceless. If blank, the element is not sourceless.

VVLL

Current version/level for the element, within the stage shown.

Edit the Request Data Set

To edit your request data set, use option **2**, EDIT, on the Batch Options Menu. You can either change existing requests or add new requests using CA Endeavor SCM's Software Control Language (SCL). The Roscoe edit facility is used to perform the editing.

When you select this option, you must provide the following information in addition to the option number:

Request Data Set

Enter information defining the request data set being edited.

DSNAME

Enter the appropriate data set name.

Member

Enter the name of the member in which you want to place your action requests.

Note: If you prefer to create SCL requests within your Roscoe workspace (AWS), you may enter the keyword ROSCOE. You must also enter a member name. You can place the member name in this field, in brackets immediately following the keyword, or in the MEMBER field on the next line.

You do not need to fill in the remaining fields on the Batch Options Menu when using the EDIT option.

Press ENTER when you have filled in the necessary information. Roscoe returns a panel to display the contents of the action request data set.

Use the panel to review the action requests in the data set, or to modify the data set.

Note: For more information about coding batch requests, see the *SCL Reference Guide*.

Submit the Request Data Set

To submit a job to execute your action requests in batch, use option **3**, SUBMIT, on the Batch Options Menu. Before submitting the job, you can optionally specify that additional DD statements should be included with this job. Use option **5**, BUILD JCL, to define the JCL.

When you select this option, you must provide the following information in addition to the option number.

Request Data Set

Enter information defining the request data set you want to submit.

DSNAME

Enter the appropriate data set name.

Member

Enter the name of the member in which you want to place your action requests.

Note: If you prefer to create SCL requests within your Roscoe workspace (AWS), you may enter the keyword ROSCOE. You must also enter a member name. You can place the member name in this field, in brackets immediately following the keyword, or in the MEMBER field on the next line.

Append

Indicate whether you want to add new requests to the end of an existing data set or library member (**Y**) or overwrite any data currently in the data set or library member (**N**).

Include JCL

Indicates whether you want to include supplementary JCL with this job. This field is required with the SUBMIT option.

- Enter **Y** to add JCL to the standard execution JCL. If you select this option, you must have previously defined the additional JCL (using option **5** on the Batch Options Menu).
- Enter **N** to indicate that no additional JCL is required for this job.

Job Statement Information

The job card to be submitted with the execution. If you have not already done so, enter the appropriate information on this panel. This is the final bit of information you need to enter on the Batch Options Menu when using the SUBMIT option.

Press ENTER when you have filled in the necessary information. Roscoe builds the JCL to submit the job dynamically, including the job card (JOB STATEMENT INFORMATION) from the Batch Options Menu, a standard job stream provided during installation, and any additional JCL (included only if you specified **Y** in the INCLUDE JCL field).

Roscoe displays a message on the Batch Options Menu to let you know the job was submitted.

Build the JCL for the Action Request

To define JCL (generally DD statements) that should be included with the JCL submitted to execute action requests, use option 5, BUILD JCL, on the Batch Options Menu. You would do this if, for example, an action request referenced a FROM or To Location file by DDNAME (as described in the SCL Reference Guide) or if you identified an archive data set in an action request.

In the Batch Options menu, type **5** in the OPTION field and press Enter. Then, fill in the JCL (complete statements) you want to include with the batch job execution, and then press PF3 to return to the Batch Options Menu.

Appendix A: Estimating Resource Requirements

This section contains the following topics:

[CA Endeavor CA Roscoe Interface Resource Requirements \(Roscoe\)](#) (see page 119)

[Interface Processing Structure](#) (see page 119)

[Interface Storage Requirements](#) (see page 120)

CA Endeavor CA Roscoe Interface Resource Requirements (Roscoe)

Use this appendix to help you estimate the resource requirements for an active interface. You can use the estimates to determine the maximum number of active interface users that a Roscoe region can support, to determine the REGION parameter to be associated with a interface Roscoe region, or to determine the number of interface servers to define.

Interface Processing Structure

The Roscoe Interface consists of two components:

- The Roscoe Interface dialog driver
- The Roscoe Interface server tasks

The Roscoe Interface dialog driver, program C1RPUSER, is a Roscoe ETSO application that interacts with the Roscoe Interface user to perform CA Endeavor SCM functions.

The Roscoe Interface server is a set of routines that the dialog driver uses to perform CA Endeavor SCM specific functions. The number of active servers is defined by the SERVERS= parameter on the Roscoe Interface configuration macro, C1RMCNFG.

Note: For more information about building the configuration module, see [How the Roscoe Installation Works](#) (see page 9).

When the dialog driver requires a CA Endeavor SCM service, it will pass the request to the first available server. The dialog driver and the server will be tied together *only* for the duration of the request. If a server is not available, the request will be queued until a server becomes available and the Roscoe Interface user will be placed in a “wait” condition. If a large number of users will be active concurrently, it is important that you define a sufficient number of servers to process the dialog requests in order to reduce the amount of time spent waiting.

If you issue the Roscoe Interface QUIE command, message C1R119I will indicate the number of times a Roscoe Interface user had to wait for a server. You can use this value to determine if a sufficient number of servers have been defined. A large WAIT count indicates that the number of servers should be increased.

Interface Storage Requirements

The interface has a fixed storage requirement and a variable storage requirement. The fixed storage requirement consists of the base interface and CA Endeavor SCM modules. The variable storage requirements consist of the interface server requirements and the interface dialog driver requirements.

- The fixed storage requirement for the CA Endeavor SCM and interface reentrant programs is 900K (24 bit addressable).
- The variable storage requirement for the interface server dynamic storage and non-reentrant programs (per defined server) is 70K (24 bit addressable).
- The variable storage requirement for the interface dialog driver (per active user) is 20K (31 bit addressable), plus selection list storage. The amount of storage required for the CA Endeavor SCM selection list depends on the size of the list and the type of the list. A formula, therefore, cannot be easily provided. All selection lists, however, are allocated from 31 bit addressable storage. Storage for a selection list is released after the table has been processed by the user.

Example: Configure 25 Users for the Interface

In this example, assume that the C1RMCNFG macro specified that 25 users will concurrently use the interface. The estimated variable storage requirement to support this configuration is the following:

- For the server, the estimated requirement is 70K.
- For 25 dialogs at 20K for each dialog, the estimated requirement is 500K (31 bit)

The total estimated variable storage requirement is 570K.

Note: Remember that the storage for the dialogs does not include the selection list requirements. In addition, these are estimates only and the actual storage requirements may vary depending on the maintenance level of the CA Endeavor SCM and interface products that you are executing.

Appendix B: CA Endeavor CA Roscoe Interface Messages

C1R1001

Activating the CA Roscoe 14.0 Interface

Reason:

The CA Endeavor CA Roscoe Interface initialization task is beginning to activate the interface.

Action:

None.

C1R101I

CA Roscoe Interface initialized with count servers

Reason:

The CA Endeavor CA Roscoe Interface initialization task has completed and the number of interface servers specified have been created.

Action:

None.

C1R102E

IDENTIFY of C1RPCTR2 failed

Reason:

The interface initialization task, C1RPCTRL, received a non-zero return code from the MVS IDENTIFY service. The initialization task will terminate with a return code of four.

Action:

Reinitialize the interface by restarting the Roscoe region. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R103E

CA Roscoe Interface server execution failed with code return code

Reason:

A interface server unexpectedly terminated while processing a CA Endeavor SCM request. The return code identifies the return code placed in the TCB when the server terminated.

Action:

If more than one server was defined in the interface configuration then no action is necessary. Any CA Endeavor SCM requests will be processed by the remaining servers. For assistance, contact Technical Support at <http://ca.com/support>.

C1R104E

CA Roscoe Interface server initialization failed with code return code

Reason:

A interface server abended during initialization. The return code identifies the return code that was placed in the server TCB for the server.

Action:

Check the CA Roscoe IE message log for any error messages that may have been issued during the server initialization and take the corrective action specified for the message. Reinitialize the interface by restarting the CA Roscoe IE region. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R105E

Identify of C1RDGCT failed

Reason:

The interface initialization task, C1RPCTRL, received a non-zero return code from the MVS IDENTIFY service. The initialization task will terminate with a return code of four.

Action:

Reinitialize the interface by restarting the CA Roscoe IE region. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R106E

Unable to load the C1DEFLTS table

Reason:

The interface initialization task, C1RPCTRL, was unable to load the CA Endeavor SCM C1DEFLTS table. The interface will terminate with a return code 16.

Action:

Verify that the C1DEFLTS table is in the CONLIB DD data set specified in the Roscoe execution JCL. Also, refer to the CA Roscoe IE message log to determine if the MVS program manager issued any error messages and take the corrective action associated with the message.

C1R107E

Unable to load C1RPLINK

Reason:

The interface initialization task, C1RPCTRL, was unable to load module C1RPLINK. The interface will terminate with a return code 16.

Action:

Verify that module C1RPLINK is in the STEPLIB/JOBLIB DD data set specified in the Roscoe execution JCL. Also, refer to the CA Roscoe IE message log to determine if the MVS program manager issued any error messages and take the corrective action associated with the message.

C1R108E

Unable to load C1RPCNFG

Reason:

The interface initialization task, C1RPCTRL, was unable to load module C1RPCNFG. The interface will terminate with a return code 16.

Action:

Verify that module C1RPCNFG is in the STEPLIB/JOBLIB DD data set specified in the Roscoe execution JCL. Also, refer to the interface message log to determine if the MVS program manager issued any error messages and take the corrective action associated with the message. If the module is not found, verify that the interface installation job C1RPCNFG executed without any errors.

C1R109E

A valid ETSOLIB DCB address was not provided

Reason:

The ETSOLIB declaration may not have been made when your site's JCL brought up the Roscoe application.

Action:

Check your site's JCL for bringing up the Roscoe application. Insure that the ETSOLIB declaration has been made. Once the declaration has been made, reinitialize the interface by restarting the Roscoe region.

C1R110E

Load of ENDEVOR service routine failed

Reason:

The interface initialization task, C1RPCTRL, was unable to load one or more CA Endeavor SCM programs. The interface will terminate with a return code 16.

Action:

Refer to the Roscoe message log to determine the program that could not be executed. Verify that the Roscoe execution JCL contains the appropriate CA Endeavor SCM and interface libraries in the JOBLIB/STEPLIB/ETSOLIB concatenation.

C1R115E

Attach of the CA Roscoe Interface server failed

Reason:

The interface initialization task, C1RPCTRL, was unable to attach one of the interface server tasks. The interface will terminate with a return code 16.

Action:

Verify that program C1RPSRVR is in the STEPLIB/JOBLIB concatenation. If not, update the Roscoe execution JCL to include the appropriate interface load library.

C1R118E**CA Roscoe Interface has been forced unavailable****Reason:**

The interface has been disabled because all of the defined CA Endeavor SCM servers have unexpectedly terminated. Message C1R103E is issued when a server terminates abnormally.

Action:

In order to reestablish the interface, the interface will have to be reinitialized by restarting the Roscoe region.

C1R119I**CA Roscoe Interface session statistics: Users connected=count, Server dispatches=count Max servers used=count Server ABENDs=count WAITs for server=count WAITs for dispatch queue=count****Reason:**

The interface has received and processed the QUIE command. The message identifies interface server statistics. The statistics can be used to tune the number of interface servers defined by the C1RMCNFG configuration macro.

Action:

None. This is an informational message only.

C1R120E**No CA Roscoe Interface servers requested. The interface is not available****Reason:**

The number of servers specified on the C1RMCNFG macro SERVERS parameter was zero. Without any servers defined, the interface cannot perform any work.

Action:

Rebuild the interface configuration module by reassembling the C1RMCNFG macro. Refer to installation job C1RPCNFG. Specify at least one server on the SERVER macro parameter. Reinitialize the interface.

C1R122I

CA Roscoe Interface shutdown complete

Reason:

The interface SHUT command was entered. The interface servers have completed shutdown processing. The interface is no longer available.

Action:

None. To restart the interface, the Roscoe region must be reinitialized.

C1R201E

No storage available for the Server control block

Reason:

An error occurred initializing the CA Endeavor SCM environment. Program C1BMINIT passed a non-zero return code. The interface server initialization will terminate with an error code of 202.

Action:

Refer to the Roscoe message log for any other error messages that may have been issued by CA Endeavor SCM. Refer to the corrective action for those messages. Restart the Roscoe region to reinitialize the interface. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R202E

Error in C1BMINIT initializing the server

Reason:

An error occurred in C1BMINIT while initializing the CA Endeavor SCM environment. Program C1BMINIT passed a non-zero return code. The interface server initialization will terminate with an error code of 202.

Action:

Refer to the Roscoe message log for any other error messages that may have been issued by the CA Endeavor SCM initialization program. Refer to the corrective action for those messages. If cause cannot be determined, contact Technical Support at <http://ca.com/support>.

C1R203E**Error initializing access to the CA Roscoe library****Reason:**

The interface server received a non-zero return code from the Roscoe LIBI INITX service. The interface server initialization will terminate with an error code of 203.

Action:

Refer to the Roscoe message log for any other error messages that may have been issued by the Roscoe library service routines. Refer to the corrective action for those messages. Restart the Roscoe region to reinitialize the interface. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R205E**CIRPSRV2 abend-code ABEND occurred****Reason:**

The interface server abended while processing a request. The server was able to recover from the action.

Action:

For assistance, contact Technical Support at <http://ca.com/support>. Have available the abend dump and the Roscoe message log.

C1R301E**Error occurred during ETSO function-name request. R14 (register 14), R12 (register 12), R15 (register 15)****Reason:**

The interface dialog driver program CIRPUSER encountered a problem while executing a Roscoe ETSO function. The dialog driver will terminate with an error code 4.

Action:

Retry the function that caused the message. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R302E

Error occurred during C1RPLINK service name request of request name

Reason:

The internal PSILINK service returned a non-zero return code while processing the service identified. The interface will terminate.

Action:

Retry the function that caused the message. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R303E

Error connecting to the Endeavor server

Reason:

The interface dialog driver program, C1RPUSER, was unable to connect to an interface server. The dialog driver will terminate with an error code 12.

Action:

Check the Roscoe message log to verify that the interface servers initialized. Message C1R101I will indicate the number of servers that initialized. If the servers failed to initialize, perform the corrective action associated with any server initialization error messages.

C1R304E

The Endeavor server ABENDED during processing

Reason:

The interface server abended while processing a request from the dialog driver. Message C1R103E should appear in the Roscoe message log to identify the ABEND code. The dialog driver will terminate with an error code of 16.

Action:

Refer to the corrective action for message C1R103E and retry the function that caused the error. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R305E**No storage available for the UCT****Reason:**

The interface dialog driver was unable to acquire the storage needed for an internal data structure. Each active dialog user requires approximately 12K of 31 bit addressable storage for the UCT. The dialog driver will terminate with an error code of 20.

Action:

Increase the REGION size assigned to the Roscoe task and restart the region in order to reinitialize the interface.

C1R306E**Error during Endeavor Environment processing****Reason:**

An internal error occurred while processing the CA Endeavor SCM Environment supplied on a dialog panel. The dialog driver will terminate with an error code of 24.

Action:

Verify that the Environment name specified is valid and retry the function that generated the error message. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R307E**Error during Endeavor System processing****Reason:**

An internal error occurred while processing the CA Endeavor SCM System supplied on a dialog panel. The dialog driver will terminate with an error code of 28.

Action:

Verify that the System name specified is valid and retry the function that generated the error message. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R308E

Error during Endeavor Subsystem processing

Reason:

An internal error occurred while processing the CA Endeavor SCM Subsystem supplied on a dialog panel. The dialog driver will terminate with an error code of 32.

Action:

Verify that the Subsystem name specified is valid and retry the function that generated the error message. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R309E

Internal error code occurred. Execution has terminated

Reason:

An internal logic error occurred while processing a dialog selection panel. The code value identifies the type of error that occurred. The dialog driver will terminate with an error code of 36.

Action:

Retry the function that generated the error message. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R311E

The CA Roscoe Interface server interface has not been initialized

Reason:

The interface dialog has determined that the interface servers have not been initialized in the Roscoe region. The dialog will terminate with an error code of 40.

Action:

Verify that the interface control task, C1RPCTRL, has been properly installed. If the interface has been properly installed, refer to the Roscoe message log to determine if any error messages were issued during the server initialization process and perform the corrective action associated with those messages.

C1R312E**Error during Endeavor Element processing****Reason:**

An internal error occurred while processing the CA Endeavor SCM Element supplied on a dialog panel. The dialog driver will terminate with an error code of 44.

Action:

Verify that the Element name specified is valid and retry the function that generated the error message. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R313E**Error during Endeavor Level processing****Reason:**

An internal error occurred while processing a CA Endeavor SCM Summary of Levels request. The dialog driver will terminate with an error code of 48.

Action:

Retry the function that generated the error message. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R314E**Error during BROWSE processing. RC=return code****Reason:**

An internal error occurred while processing the BROWSE request. The return code field identifies the return code passed by the interface server BROWSE function. The dialog driver will terminate with an error code of 32.

Action:

Retry the BROWSE function. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R316E

Error during member processing. RC=return code

Reason:

An internal error occurred while processing the member request on behalf of the dialog driver. The return code field identifies the return code passed by the interface server function. The dialog driver will terminate with an error code of 60.

Action:

Refer to the Roscoe message log for any other error messages. If the problem cannot be resolved, contact Technical Support at <http://ca.com/support>.

C1R318E

The CA Roscoe Interface is not available

Reason:

All interface servers are not available.

Action:

Check the Roscoe message log for any errors that might indicate the cause. Reinitialize the interface by restarting the CA Roscoe region. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R319E

Error during Endeavor element type processing

Reason:

An internal error occurred while processing a Type List request. The dialog driver will terminate with an error code of 72.

Action:

Retry the function that generated the error message. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R320E**Error during Endeavor processor group processing****Reason:**

An internal error occurred while processing a Processor Group request. The dialog driver will terminate with an error code of 76.

Action:

Retry the function that generated the error message. If the problem persists, contact Technical Support at <http://ca.com/support>.

C1R502E**The CA Roscoe Interface was not quiesced****Reason:**

The REST command was entered but a previous QUIE command had not been entered. The dialog will terminate with an error code of 72.

Action:

None.

C1R503I**The CA Roscoe Interface posted to restart****Reason:**

The interface REST command was entered. The dialog has requested each server to restart processing. The interface servers will begin accepting service requests.

Action:

None.

C1R507I**The CA Roscoe Interface posted to shutdown****Reason:**

The interface SHUT command was entered and has been successfully processed. The interface servers have been told to stop processing.

Action:

None. Message C1R122I will be issued when the servers have stopped processing.

C1R504E

The CA Roscoe Interface is not active

Reason:

The interface QUIE, SHUT or REST command was specified but the interface has not been initialized in the Roscoe region. The dialog will terminate with an error code of 76.

Action:

Verify that the interface control task, C1RPCTRL, has been properly installed. If the interface has been properly installed, refer to the Roscoe message log to determine if any error messages were issued during the server initialization process and perform the corrective action associated with those messages.

C1R505I

CA Roscoe Interface has been marked unavailable

Reason:

The QUIE command was entered and has been successfully processed. The interface servers will not accept any more requests.

Action:

None. To restart the interface, use the REST command.

C1R506E

Invalid command specified. No action was taken

Reason:

The interface was started with an optional command specified on the command line. The command entered is invalid. The dialog will terminate with an error code 80.

Action:

Reinvoke the dialog with a valid command. Valid commands are REST, QUIE and SHUT or by not specifying a command on the command line.