

ENDEVOR

We use Endeavor for...

- Source control

To ensure that we always work with the latest version of the source

- Endeavor Search

To search for a string in a large list of sources

- SCL generation

This is required at the time of migration

Endevor environments...

- 1 **FIX** - Alternate/Fix environment
- 2 **TEST** - Test environment
- 3 **RELEASE** - Release environment
- 4 **DEMOTEST** - Demo test environment
- 5 **DEMOPROD** - Demo production envmt.

Endevor Options...

0 DEFAULTS

1 **DISPLAY** - Display elements, proc groups etc.

2 **FOREGROUND** - Foreground actions (*Source Retrieval*)

3 **BATCH** - Batch processing (*SCL generation, Search*)

4 PACKAGE

5 BATCH PACKAGE

U USER MENU

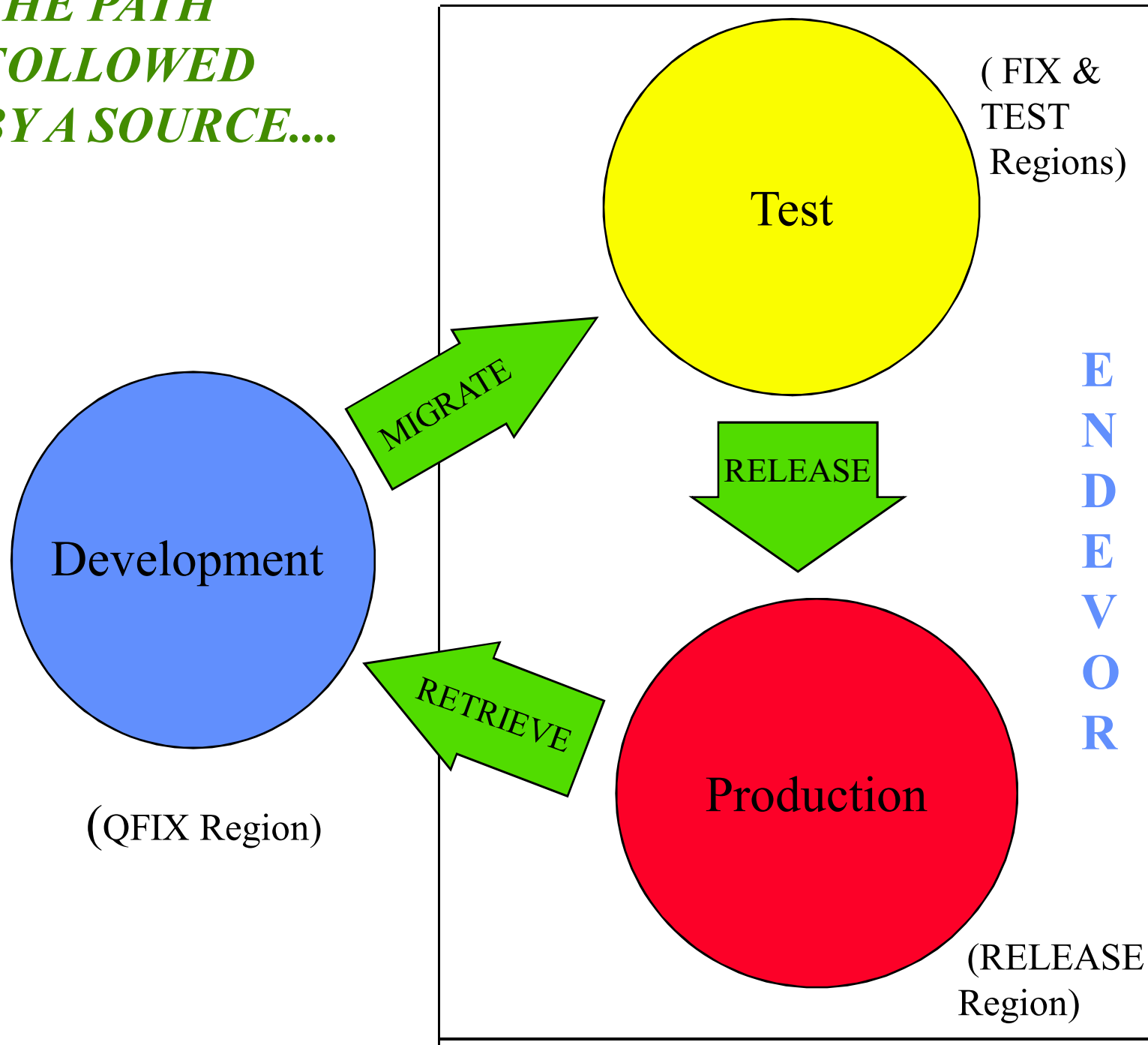
T TUTORIAL

C CHANGES

X EXIT

Source control in Endeavor

***THE PATH
FOLLOWED
BY A SOURCE....***



A source may reside in any of these stages:

- *Environment FIX, System EAS0,*
 - FIXTEST
 - FIXSHIP
- *Environment TEST, System EAS0,*
 - ACCEPTANCE
 - INTEGRATION
- *Environment RELEASE, System EAS,*
 - SHIP
 - PRODUCTION

Display Options in Endeavor

The 'Display element list' screen can be accessed in all three environments of Endeavor. In RELEASE, it can be accessed by entering option 1 ;1 (i.e, display; element)

Options **B** (*browse*), **C** (*change*), **H** (*history*), **M** (*master*) and **S** (*summary*) can be used to get information on an element.

Display Options in Endeavor (contd.)

- Option '**B**' will give a source listing of the element as it currently exists in the region specified
- Option '**C**' can be used to get details of changes made to the current source with respect to the *previous* version
- Option '**H**' can be used to get details of *all* changes ever made to the source. For each line of the source code, the appropriate version number is indicated at the extreme left
- Option '**M**' can be used to get information about the current status of the source (i.e whether it has been retrieved, if so, by whom and on what CCID etc.)

Getting Summary Information

*This will give a list of all versions of sources that have existed in endeavor **to date**.*

- Enter the 'Display element list' screen (= en ; e ; 3 ; 1; 1)
- Enter the element name and type, with environment as RELEASE and stage as Production.
- Type in option 'S' - summary. Press enter

Any version may be selected from this list giving the options B, C or H

Display options with 'Summary'

- Option 'B' can be used to browse the selected version of the source
- Option 'C' can be used to get details of changes made to the current (selected) version with respect to the *previous* version
- Option 'H' can be used to get details of *all* changes ever made upto the selected version. For each line of the source code, the version number is indicated at the extreme left

Current Source Information

- Enter the 'Display element list' screen (= en ; e ; 2 ; 1 ; 1)
- Enter the element details, with environment as TEST and stage as Integration (this is the lowest level in endeavor)
- Set 'Build Using Map' option to 'Y'. Press enter

*This will give a listing of the sources **currently** existing in endeavour (e.g versions of the same source may be existing in Integration, Ship and Production)*

Retrieval

- For purposes of modification, we will normally retrieve elements from *Production*.
- Elements must always be retrieved *without a signout*.

Endevor Retrieval Screen

OPTION ==> R

ELEMENT DISPLAY OPTIONS:

blank - Element list
R - Retrieve element

S - Summary B - Browse H - History
M - Master C - Changes

FROM ENDEVOR:

ENVIRONMENT ==> RELEASE
SYSTEM ==> EAS
SUBSYSTEM ==> EAS
ELEMENT ==> IOINTEG1
TYPE ==> COBOL
STAGE ==> P
COMMENT ==>

ACTION OPTIONS:

CCID ==>
EXPAND INCLUDES ==> N (Y/N)
SIGNOUT ELEMENT ==> N (Y/N)
OVERRIDE SIGNOUT ==> N (Y/N)
REPLACE MEMBER ==> N (Y/N)

S - SHIP P - PROD

TO ISPF LIBRARY:

PROJECT ==> EASV11
LIBRARY ==> QFIX
TYPE ==> COBOL
MEMBER ==>

LIST OPTIONS:

DISPLAY LIST ==> Y (Y/N)
WHERE CCID EQ ==>
WHERE PROC GRP EQ ==>
BUILD USING MAP ==> N (Y/N)
FIRST FOUND ==> Y (Y/N)

TO OTHER PARTITIONED OR SEQUENTIAL DATA SET:

DATA SET NAME ==>

Endevor Search

Using Endeavor Search

The search option can be used to search a large list of sources for the occurrence of a given string. Follow the steps as given below:

1. Select the desired endeavor environment (Usually RELEASE)
2. Select the BATCH option
3. Select the 'BUILD SCL' option giving a temporary member name

(please see next slide for the Batch Options Menu)

Batch Options menu

OPTION ==> 1

- 1 BUILD SCL - Build batch SCL actions
- 2 EDIT - Edit request data set
- 3 SUBMIT - Submit job for batch processing
- 4 VALIDATE - Check request data set for syntax errors
- 5 BUILD JCL - Enter additional JCL to be included with the job

REQUEST DATA SET:

PROJECT	==> AMV3710	APPEND	==> N (Y/N)
GROUP	==> SOURCES	INCLUDE JCL	==> N (Y/N)
TYPE	==> COBOL		
MEMBER	==> SEARCH		

OTHER PARTITIONED OR SEQUENTIAL DATA SET:

DSNAME ==>

JOB STATEMENT INFORMATION:

==>

==>

==>

==>

Endevor search (continued)

4. Select option 11 (To list elements)
5. Enter the the partial names of the of the elements you wish to scan, and the corresponding type (e.g. IO* & COBOL);
Set Display List to 'N';
Select Option 'L';
Type in the string to be searched for.

(see next slide for the List Element Action screen)

List Element Action

OPTION ==> L

ELEMENT DISPLAY OPTIONS:

blank - Element list
L - LIST element action

S - Summary B - Browse H - History
M - Master C - Changes

FROM ENDEVOR:

ENVIRONMENT ==> RELEASE
SYSTEM ==> EAS
SUBSYSTEM ==> EAS
ELEMENT ==> IO*
TYPE ==> COBOL
STAGE ==> P

LIST OPTIONS:

DISPLAY LIST ==> N (Y/N)
WHERE CCID EQ ==>
WHERE PROC GRP EQ ==>
BUILD USING MAP ==> N (Y/N)

S - SHIP

P - PROD

TEXT STRING:

==> 'CONSOLLT'

SCAN COLUMNS:

START ==> END ==>
SHOW TEXT ==> Y (Y/N)

ACTION TO BE GENERATED WHEN LIST IS CREATED ==>

WRITE LIST TO OUTPUT DATA SET ==> N (Y/N)

WHERE COMPONENT EQ ==>

Endevor search (continued)

6. Press enter- SCL will be generated; then press F3
7. Again press F3 to return to the Batch Options Menu
8. Enter option 3 to Submit the SCL
9. Scan the held output under DDNAME C1MSG1
10. Search for the return code of '0000'. Any element which has '0000' against it has the string you are looking for.

SCL Generation

SCLs are generally used to migrate sources from the Development region to TEST. The steps involved in the preparation of an SCL are listed in the following slides...

How to generate an SCL

1. Select option 2, i.e., 'TEST'.
2. Select option 3, i.e., 'BATCH'
3. To build an SCL for the first time, enter options as given below and press ENTER. *whenever you want to build a fresh SCL, set the append option to 'N'. If you want to append elements to an existing SCL, then set this option to 'Y'.*

(‘The Batch Options Menu’ screen follows)

Batch Options menu

OPTION ==> 1

- 1 BUILD SCL - Build batch SCL actions
- 2 EDIT - Edit request data set
- 3 SUBMIT - Submit job for batch processing
- 4 VALIDATE - Check request data set for syntax errors
- 5 BUILD JCL - Enter additional JCL to be included with the job

REQUEST DATA SET:

PROJECT	==> EASV11	APPEND	==> N (Y/N)
GROUP	==> QFIX	INCLUDE JCL	==> N (Y/N)
TYPE	==> SCL		
MEMBER	==> SCLTEST		

OTHER PARTITIONED OR SEQUENTIAL DATA SET:

DSNAME ==>

JOB STATEMENT INFORMATION:

==>

==>

==>

==>

SCL Generation (continued)

4. On pressing ENTER on the previous screen, the SCL GENERATION screen is brought up. Enter option '2' (ADD/UPDATE) regardless of whether you are creating a new SCL or updating an existing one.
5. In the 'Add/Update Elements' screen, type in the fields as shown in the next slide.

('Add/Update Element' screen follows)

Add/Update Elements

OPTION ==> A

blank - Member list

A - Add an element

U - Update an element

TO ENDEVOR:

ENVIRONMENT ==> TEST
SYSTEM ==> EAS0
SUBSYSTEM ==> EAS
ELEMENT ==> DC1005
TYPE ==> COBOL
STAGE: I
COMMENT ==>

ACTION OPTIONS:

CCID ==> EASY2KUU4
GENERATE ELEMENT ==> Y (Y/N)
DELETE INPUT SOURCE ==> N (Y/N)
NEW VERSION ==>
OVERRIDE SIGNOUT ==> Y (Y/N)
PROCESSOR GROUP ==> CIINCL
UPDATE IF PRESENT ==> N (Y/N)

FROM ISPF LIBRARY:

PROJECT ==> EASV11
LIBRARY ==> LR11
TYPE ==> COBOL
MEMBER ==> DC1005

LIST OPTIONS:

DISPLAY LIST ==> Y (Y/N)

THRU MEMBER ==>

FROM OTHER PARTITIONED OR SEQUENTIAL DATA SET:

DATA SET NAME ==>

Add/Update elements...

- Use option 'A' when you are adding new elements to the SCL. The same option will hold even when we are appending members to an existing SCL.
- Ensure that the member names match in the 'TO' and 'FROM' libraries. This is very important !
- The Processor group field will depend on the **type** of program. This field is mandatory when new sources are being added to the system. Use the following key:

<i>Source Type</i>	<i>Processor Group</i>
Batch cobol program	CIINBL
CICS cobol program	CIINCL
Copybook	CPYNNN
Controlcard	SRCNNS
Bind card	BNDSUBX

(Continued)

<i>Source Type</i>	<i>Processor Group</i>
Batch IO Module (TDM)	CIITBL
CICS IO Module (TDM)	CIITCL
Batch IO Module (without TDM)	CIIDBL
CICS IO Module (without TDM)	CIIDCL

SCL Generation (contd.)

Pressing the enter key now will add a member to the SCL

6. Add the remaining members by repeating step 5. Make sure that the member name, type and processor group are correctly entered.
7. Press PF03 to save the SCL. Inform the on-site team giving them the name of the SCL that has been built
[eg. 'EASV11.QFIX.SCL(SCLTEST)'] .
SCL Submission will be done on-site.

NOTES

After building the SCL, it is advisable to manually browse it. For this, use the EDIT option shown in the first screen.

Check for :

- a) Mismatched member name
- b) Repeated entries for same element
- c) Wrong Processor group.

Hope that was useful !