



CICS Tools

Hands-On Workshop

Managing Resource definitions
for CICS with
CICS Configuration Manager V1.2

Assigned Userid: CICSTXX

Session Objectives:

This workshop serves as a hands-on introduction to CICS Configuration Manager (CM) V1.2. It will introduce some of the basic features of CICS CM, and to show how CICS CM can help manage resource definitions and migrations for CICS.

The lab is comprised of a several hands-on exercises designed to familiarize you with the product so that you can:

Navigate the ISPF interface and view resources across CSDs (or data repositories) from a single point

Set up initial system definitions

Edit resource definitions

Generate reports

Migrate resource definitions

Identify Orphaned CICS resource definitions or groups of definitions

There are optional exercises that cover additional features of CICS CM. Due to the limited class time, you may not have time to cover these topics during the CICS Tools Work Shop. However; if you complete the other exercises early you can work on the optional exercises independently. Additionally, the option exercises have been included in the recorded demonstration so you can review them add your own convenience.

It is expected that the user of this document as a nominal amount of experience with TSO/ISPF.

For detailed information regarding CICS Configuration Manager, please reference the CICS Configuration Manager User's Guide. This document can be found on the WEB at: http://www-306.ibm.com/software/sw-library/en_US/products/F823214T19615T82/

CICS CM Script

Note: Replace all references to CICSTXX with assigned userid in each exercise

Instructor note – Use a student ID not in use for this exercise

Exercise 1 - General Navigation (instructor led)

In this exercise, we will navigate through the Settings and Administration options, learning how to customized CM and understanding what the following are and mean to the product:

Configurations

Migrations Schemes

Transformation Rules

Exit Points

- From Primary ISPF Option Menu select **P**
- From DemoPKG products screen select **D**
- From Management Tools for CICS screen select **CM**
- Hit Enter to remove Copyright information
- Enter **zserveros** next to IP address
- Enter **6023** next to Port number
- Enter **No** next to SSL enabled

```

File  Menu  Settings  Help
-----
                          CICS Configuration Manager - Primary Menu

0 Settings          Set user parameters and options
1 Administer        Administer CICS Configuration Manager definitions
2 CICS Resources    Maintain CICS resource definitions
3 Packages          Process change packages to migrate CICS resources
4 Reports           Reporting views of CICS resource definitions
X Exit             Exit CICS Configuration Manager

Server connection details
IP address . . . . . ZSERVER0S
Port number . . . . . 6023
SSL enabled . . . . . NO      (NO, YES)
SSL keyring name . . . . .
SSL key database . . . . .

Option ==>
F1=Help      F3=Exit      F4=Prompt      F5=Rlocate      F6=Zoom      F7=Backward
F8=Forward   F10=Actions   F12=Cancel

```

- Select option **0** for settings
- Remove / next to Set save confirmation on
- Remove / next to Set cancel confirmation on
- Ignore Job Statement and Steplib information as we will not be doing batch submits (your screen will not have job statement information but the below screen shows what it would look like)

```

File  Menu  Help
-----
                          Settings

Options
Display limit . . . . . 10000      (blank, 1-500000)

Enter "/" to select option
- Set save confirmation on
- Set cancel confirmation on
- Set uppercase translation on

CICS Configuration Manager server
IP address . . . . . ZSERVER0S
Port number . . . . . 6023
SSL enabled . . . . . NO      (NO, YES)
SSL keyring name . . . . .
SSL key database . . . . .

Job statement information
//DNET530 JOB , 'CICSCM',
//          CLASS=A,MSGCLASS=H,MSGLEVEL=(1,1),NOTIFY=&SYSUID,
//          COND=(4,LT),REGION=0M

Batch job stepped library
STEPLIB 1 . . . . . CICSCM.V1R2.SCCVAENU
          2 . . . . . CICSCM.V1R2.SCCVAUTH

Command ==>
F1=Help      F3=Exit      F4=Prompt      F5=Rlocate      F6=Zoom      F7=Backward
F8=Forward   F10=Actions   F12=Cancel

```

- PF3 back to CM Primary Menu
- Select option 1 Administration
- Select option 1 System Options
- Remove / next to Automatic change package numbering

```

File Settings Help
                                     System Options

Options
Enter "/" to select option
- Approvals checking for change packages
- Automatic change package numbering
/ Transformation processing for resource migrations
/ Exit Point processing in the CICS CM Server

Security Controls
Enter "/" to select option
- Security checking for server API commands
  SAF resource class . . . FACILITY
  Security key prefix . . . CCM

Enter "/" to select option
- Security checking by CICS resource keys
  SAF resource class . . . FACILITY
  Security key prefix . . . DUM

Command ==>
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom      F7=Backward
F8=Forward   F10=Actions   F12=Cancel

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```

- PF3 back to Administration Menu
- Select option 2 CICS Configurations
- Change Filter from * to your **CICSTXX*** and hit enter (filters allow you to reduce the list of objects)

```

File Menu Settings Help
Resources                               CICS Configurations           Row 1 to 2 of 2
Filter CICST10*

/ Name      Description
---
CICST10    TEST DRIVE Example
CICST10A   TEST DRIVE Example
***** Bottom of data *****

Command ==>
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom      F7=Backward
F8=Forward   F10=PrevPage F11=NextPage F12=Cancel   Scroll ==> PAGE
  
```

- Enter / next to your CICSTXX or CICSTXXA
- Select option 2 – view

```

File  Menu  Settings  Help
-----
View                               CICS Configuration          Row 1 to 1 of 1
Name . . . . . : CICST10
Description . . : TEST DRIVE Example
Specify the type of file or repository
2  1. CICSplex SM Context . . :
   2. CSD File . . . . . : CICSTSS.CICST10.DFHCS
   3. Export-import file . . :
Choose a view for related options
1  1. Transform variables
   2. CSD file options
   3. Export-Import file options
Define transformation variables and values
/ Name                               Value
***** Bottom of data *****
Command ==>
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom      F7=Backward
F8=Forward   F10=Actions  F12=Cancel
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```

- PF3 twice back to Administration Menu
- Select option 3 – Migration Schemes
- Change filter to your **CICSTXX**
- Enter **V** (view) next to your CICSTXX migration scheme

```

File  Menu  Settings  Help
-----
View                               Migration Scheme          Row 1 to 1 of 1
Name . . . . . : CICST10
Description . . : Test Drive
Approval Processing
_ Activate
Choose a view for related options
1  1. Migration paths
   2. Transform variables
Define the migration path source and target CICS Configurations
/ Source + Target + Transform Rule +
_ CICST10  CICST10A  TESTDRVE
***** Bottom of data *****
Command ==>
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom      F7=Backward
F8=Forward   F10=Actions  F12=Cancel
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```

- PF3 twice back to Admin. Menu
- Select option 4 – Approval Profiles

- Change filter to **TESTPROD***
- Enter **V** next to profile TESTPROD

```

File  Menu  Settings  Help
-----
View                               Approval Profile                               Row 1 to 1 of 1
Name . . . . . : TESTPROD
Description . . . . . : _____

Define the approval authorities for the Migration Schemes

Migration  Approver  Approver  Approver  Approver  Approver
/ Scheme +   1       2         3         4         5
- CICS MIG1  MANAGER  LEAD      CEO
***** Bottom of data *****

Command ==> _____ Scroll ==> PAGE
F1=Help     F3=Exit     F4=Prompt   F5=Rlocate  F6=Zoom     F7=Backward
F8=Forward  F10=Actions F12=Cancel

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```

- PF3 twice back to Admin. Menu
- Select option **5** – Transformation Rule
- Change filter to **TESTDRVE**
- Enter **S** next to rule
- Under Define Transformation rules, enter **S** next to * (scheme)

```

File  Menu  Settings  Help
-----
View                               Transform Rule
Name . . . . . : TESTDRVE
Description . . . . . : Modify DSNname on FCT migration (TEST TO PROD)

Qualification criteria
Scheme . . . . . * _____ +
Source Config . . * _____ +
Target Config . . * _____ +
Group . . . . . * _____
Resource Type . . FILE _____ +
Resource Name . . * _____
Check Field . . . . _____ +
Check Operator . . _____ +
Check Value . . . . _____ +

Choose a Processing Option
1 1. Transform and continue
2 2. Transform and lock field
3 3. Transform and lock record
4 4. Stop migration of this resource

Transform Field and Values
Change Field . . . DSNNAME _____ +
Change From . . . *.TEST.* _____ +
Change To . . . . *.PROD.* _____ +

Command ==> _____
F1=Help     F3=Exit     F4=Prompt   F5=Rlocate  F6=Zoom     F7=Backward
F8=Forward  F10=Actions F12=Cancel

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```

- Note: This transformation rule will be used in our exercise 3 migration of a file definition
- PF3 three times back to Admin. Menu
- Select option **6** – Exit Points

```

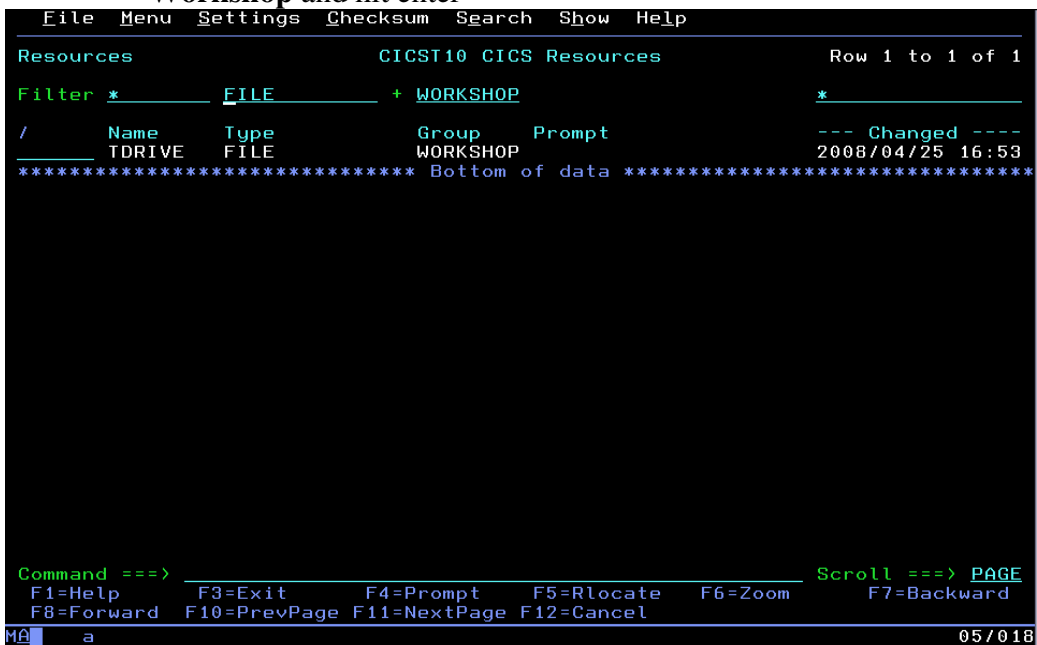
File  Menu  Settings  Help
-----
                                Exit Programs
Enter "/" to activate exit point program
Press END to save updates, or CANCEL to cancel request.
                                More:  +
-----
CICS Resource Exits
-----
Exit Point      Exit Program    PPT Resolved  Program Loadable  Execution Status
-----
- CPDM contexts  RANACP01        NOT IN USE     N              N              Inactive
- CSD files      RANACS01        NOT IN USE     N              N              Inactive
- Export files   RANAEX01        NOT IN USE     N              N              Inactive
-----
Change Package Pre-Processing Exits
-----
Exit Point      Exit Program    PPT Resolved  Program Loadable  Execution Status
-----
- APPROVE        CPPRAP01        NOT IN USE     N              N              Inactive
- BACKOUT        CPPRB001        NOT IN USE     N              N              Inactive
- DISAPPROVE     CPPRDA01        NOT IN USE     N              N              Inactive
- IMPORT         CPPRIM01        NOT IN USE     N              N              Inactive
- INSTALL        CPPRIN01        NOT IN USE     N              N              Inactive
- MIGRATE        CPPRMG01        NOT IN USE     N              N              Inactive
- NEWCOPY        CPPRNC01        NOT IN USE     N              N              Inactive
- READY          CPPRRD01        NOT IN USE     N              N              Inactive
- UNREADY        CPPRUR01        NOT IN USE     N              N              Inactive
-----
Change Package Post-Processing Exits
-----
21 exit points inactive.
-----
Command ==>
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom      F7=Backward
F8=Forward   F10=Actions  F12=Cancel
-----
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```

- PF3 twice back to Primary Menu for CM

Exercise 2 (self-paced) Edit resource/History/Compare Resources

In this exercise you will see how to find resources within a CSD (or Data Repository) by changing filters. Once a resource is identified, you can change the resource and also view a history of change for that resource. You will change a file and 3 programs for preparation to migrate (exercise 3). You will also be able to see a history of the change including date and time and userid of who made the change as well as be able to compare now the current definition to the old one to understand what actually changed.

- Select Option **2** – CICS Resources
- Change filter to CICSTXX*
- Enter **S** next to CICSTXX name
- Change 2nd filter (over type) to **File** and 3rd filter (over Group) to **Workshop** and hit enter



- Enter **S** next to file Tdrive and hit enter
- Within Tdrive file definition tab to RLSaccess attribute and change **NO** to **YES** and hit PF3 (we have now edited this resource and saved that change with PF3)
- Change 2nd filter to **Program** and hit enter

```

File  Menu  Settings  Checksum  Search  Show  Help
Resources          CICST10 CICS Resources          Row 1 to 5 of 5
Filter *          PROGRAM          + WORKSHOP          *
/      Name      Type      Group      Prompt      --- Changed ---
-----
EHDRIVER PROGRAM  WORKSHOP
EHSTARTP PROGRAM  WORKSHOP
EHWORPK  PROGRAM  WORKSHOP
EHWORKR  PROGRAM  WORKSHOP
WORKP    PROGRAM  WORKSHOP
***** Bottom of data *****
Command ==>
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom      F7=Backward
F8=Forward   F10=PrevPage F11=NextPage F12=Cancel
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```

- Select each program in list by entering **S** next to each and hit enter
- Within EHDRIVER program definition tab to Concurrency and hit PF4
- Enter **S** next to Threadsafe and hit enter then PF3
- Within EHSTARTP program definition tab to Concurrency and type a **T** over the Q (of Quasirent) and hit enter (notice it changed to Threadsafe) then hit PF3
- Within EHWORPK program definition on command line enter L Concurrency and hit enter
- Type a **T** over the Q and hit enter then hit PF3
- Within EHWORKR program definition tab to Concurrency and type a **T** over the Q and hit enter (notice it changed to Threadsafe) then hit PF3
- Within WORKP program definition tab to Concurrency and type a **T** over the Q and hit enter (notice it changed to Threadsafe) then hit PF3

- Next to program EHDRIVER enter an **H** (history) and hit enter (notice time and date stamp with who made change is listed as current)

```

File  Menu  Settings  Help
Resources          CICST10 CICS Resource History          Row 1 to 2 of 2
/
----- Name      Type          Group          ----- Changed ----- ID
EHDRIVER PROGRAM WORKSHOP *Current 2008/04/28 16:01:23 CICST10
EHDRIVER PROGRAM WORKSHOP          2008/04/25 16:53:36 Unknown
***** Bottom of data *****
Command ==>
F1=Help      F3=Exit      F4=Prompt      F5=Rlocate      F6=Zoom      F7=Backward
F8=Forward   F10=Actions  F12=Cancel
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```

- Enter cm on both lines next to each EWDRIVER entry definition and hit enter
- Tab to the Hilite tab at top of screen and hit enter
- Select option 4 (Red) and hit enter (notice changes are hilited in red from current (left hand entry) to previous definition (right hand entry))
- PF3 four times back to CM Primary Menu

Exercise 3 (self-paced) Package resources for migration

In this exercise you will prepare our edited definitions for migration by creating a package containing all of our changed resources. Once created, you will ready the change, select where you will migrate the changes and finally migrate the change. The migration of your file definition will execute a transformation rule which changes the dataset name on migration due to naming standards on our target system. You will then switch to our target CSD and view our new resources. Finally you will compare our file definition that was migrated from our original system with our target system to verify that the definition executed our migration scheme changing our dataset name. In this exercise we are only migrating (moving) the changes to the target CSD. We are not installing the changes.

- Select Option **3** – Package
- On command line type - def (define)
- Enter **CICSTXX** and hit enter
- Next to description type – Threadsafe package1
- Tab to command line and enter save and hit enter
- PF3 and change filter to **CICSTXX**
- Enter **S** next to your package (CICSTXX – if you don't see it, you forgot to save the package and will have to start at the top of this exercise again)
- Enter **1** where cursor resides (package) and hit enter
- Change filters 1-3 to *, change filter 4 to **CICSTXX** and filter 5 to TODAY and hit enter (Note – This is a quick way to identify resources that were changed today by you in CSD CICSTXX)
- Enter **P** next to all resources listed (this will package all of the resources in this group in preparation for migration to a target CSD) (see next page for screen shot)

```

File Menu Settings Help
-----
Package          Change Package CICST04          Row 1 to 6 of 6
Filter * _____ + * _____          CICST04 TODAY
/ Name Type Group Prompt Config --- Changed ---
p EHDRIVER PROGRAM WORKSHOP CICST04 2008/04/30 12:12
p EHSTARTP PROGRAM WORKSHOP CICST04 2008/04/30 12:13
p EHWORWP PROGRAM WORKSHOP CICST04 2008/04/30 12:14
p EHWORWR PROGRAM WORKSHOP CICST04 2008/04/30 12:14
p TDRIVE FILE WORKSHOP CICST04 2008/04/30 12:10
p WORKP PROGRAM WORKSHOP CICST04 2008/04/30 12:14
***** Bottom of data *****
Command ==>
F1=Help F3=Exit F4=Prompt F5=Rlocate F6=Zoom F7=Backward
F8=Forward F10=Actions F12=Cancel
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```

- Hit enter and each should show packaged below prompt field
- PF3 and select option 2, hit enter and view list and status of resources (Not ready is a status where the change cannot go forward. We will ready the resources next)

```

File Menu Settings Help
-----
List - All resources          Change Package CICST10          Row 1 to 6 of 6
To prepare Scheme views, enter a Scheme on the previous panel
Change Package resources
Filter * _____ + * _____          *
/ Name Type Group Status Config
EHDRIVER PROGRAM WORKSHOP Not ready, new object CICST10
EHSTARTP PROGRAM WORKSHOP Not ready, new object CICST10
EHWORWP PROGRAM WORKSHOP Not ready, new object CICST10
EHWORWR PROGRAM WORKSHOP Not ready, new object CICST10
TDRIVE FILE WORKSHOP Not ready, new object CICST10
WORKP PROGRAM WORKSHOP Not ready, new object CICST10
***** Bottom of data *****
Command ==>
F1=Help F3=Exit F4=Prompt F5=Rlocate F6=Zoom F7=Backward
F8=Forward F10=PrevPage F11=NextPage F12=Cancel
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```

- PF3 and move your cursor up under chose a processing command and select option 3 ready your package for migration. As your cursor moves to migration scheme hit pf4
- On command line type **L CICSTXX** and hit enter
- Enter **S** next to CICSTXX (migration scheme) and hit enter (The migration scheme defines a from and to CSD for the migration. In this case we are moving our resources from csd CICSTXX to csd CICSTXXA)
- Hit enter again and Select option **1** to ready and option **1** under execution mode for foreground
- Hit enter (notice command successful on upper right hand side and scheme status shows ready (these changes can now be migrated but if someone were to change one of the resources you identified in your package, that resource would return to not ready since it may be have been compromised)

```

File Menu Settings Help
Ready                               Change Package CICST10           Command successful
Name . . . . . : CICST10
Description . . : Threadsafe package
Scheme name . . : CICST10
Scheme status . : Ready, no approvals required

Choose a processing option and press Enter
1 1. Ready      Ready the change package
  2. UnReady   Remove ready status from the change package
  3. List      List the ready-candidate CICS resources

Execution mode          Enter "/" to select option
1 1. Foreground  _ Edit JCL before user submit
  2. Batch

Command ==>
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom     F7=Backward
F8=Forward   F10=Actions  F12=Cancel

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```

- Hit PF3 Twice
- Select option **2** and hit enter and view state of resources (all should show ready), PF3 to return
- Select option **5** – migrate and hit enter
- Select option **1** to migrate and option **1** to migrate in foreground
- Hit enter and see command successful (We have migrated and moved our program and file changes from CSD CICSTXX to CICSTXXA)
- PF3 three times back to CM primary menu
- Select option **2** – CICS resources
- Filter should be CICSXX* (if not change it and hit enter), enter **S** next to CICSTXXA (target CSD) and hit enter

- Change 3rd filter (above group) to **workshop** (all other filters should contain *) and hit enter
- Enter **h** (history) next to program EHDRIVER in the target CSD and hit enter
- View date, timestamp and userid of current entry (This change represents moving this program from a source csd to your target csd)

```

File Menu Settings Help
Resources          CICST10A CICS Resource History          Row 1 to 2 of 2
/
Name      Type      Group      Changed      ID
-----
EHDRIVER PROGRAM  WORKSHOP *Current  2008/04/28 16:43:02 CICST10
EHDRIVER PROGRAM  WORKSHOP          2008/04/25 16:53:36 Unknown
***** Bottom of data *****
Command ==>
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate    F6=Zoom      F7=Backward
F8=Forward   F10=Actions  F12=Cancel
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```

- PF3 and change filter 4 to **today** and hit enter
- Notice that this displays all resources changed in this group (target CSD) for today
- Enter **S** next to program EHDRIVER and confirm Concurrency = Threadsafe on the definition
- PF3 3 times back to CM Primary Menu
- Select Option **4** (Reports) and hit enter
- Select Option **1** (multiple configurations) and hit enter (we will be looking at both your source and target csd)
- Change filter to **CICSTXX*** and hit enter
- Enter **S** next to both configurations (CICSTXX and CICSTXXA) and hit enter
- Change 2nd filter to **file** and 3rd filter to **Workshop** and hit enter
- Enter **cm** next to each file entry (notice config name on right shows both original and target configuration (CSD) and hit enter

```

File  Menu  Settings  Checksum  Search  Show  Help
Resources                               Multiple Configuration Resources          Row 1 to 2 of 2
Filter * _____ FILE _____ + WORKSHOP
/      Name      Type      Group  Prompt      Config
CM     TDRIVE    FILE     WORKSHOP  WORKSHOP    CICST10
CM     TDRIVE    FILE     WORKSHOP  WORKSHOP    CICST10A
***** Bottom of data *****

Command ==>
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom      F7=Backward
F8=Forward   F10=PrevPage F11=NextPage F12=Cancel

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```

- Notice – Dataset name has been transformed from executing a transformation rule (viewed earlier) on migration which changes our file name middle node and RLSaccess is now YES for both entries

```

File  Menu  Settings  Hilite  Help
Compare                               File
File . . . . : TDRIVE                      TDRIVE
ResGroup . . : WORKSHOP                    WORKSHOP
=> Location . . : CICSTSS.CICST10.DFHCSDD  CICSTSS.CICST10.DFHCSDD1
=> Change Date . . : 2008/04/28 15:56:37  2008/04/28 16:43:02
Description . . :
More: +
VSAM Parameters
=> DSname . . . : CICS.TEST.FILE           CICS.PROD.FILE
Password . . . :
RLSaccess . . . : YES                     YES
LSRpoolID . . . : 1                       1
ReadInteg . . . : UNCOMMITTED             UNCOMMITTED
DSNsharing . . . : ALLREQS                 ALLREQS
Strings . . . . : 3                       3
NSRgroup . . . :
Remote Attributes
RemoteSystem :
RemoteName . :
Remote and CFdataTable Parameters
RecordSize . . : 80                       80
KeyLength . . . : 6                       6
Initial Status
Command ==>
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom      F7=Backward
F8=Forward   F10=Actions  F12=Cancel

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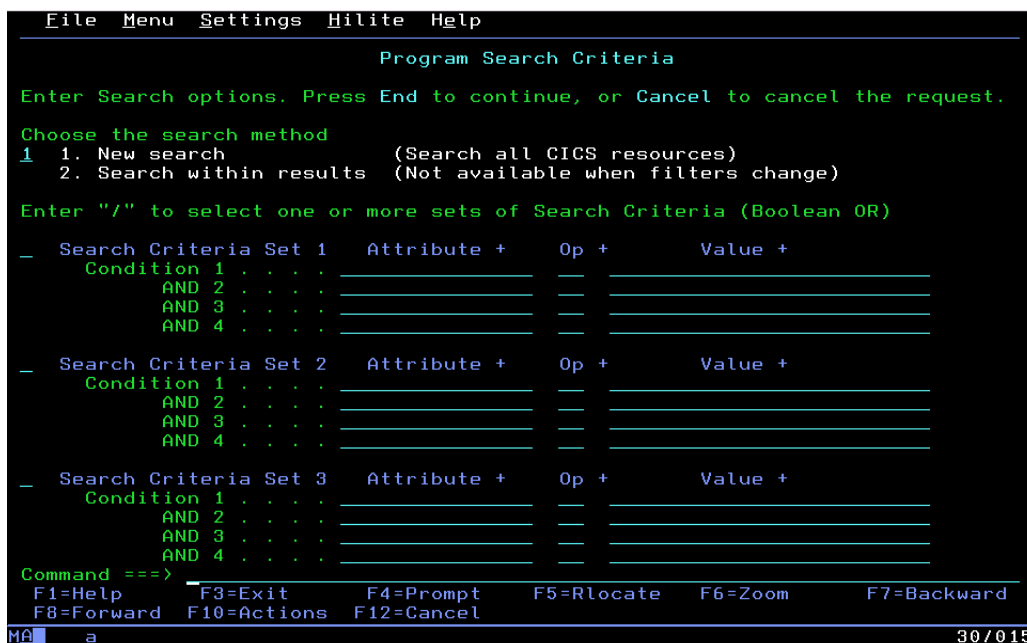
```

- PF3 4 times back to CM Primary Menu

Exercise 4 (self-paced) Search command

In this exercise you will search within a configuration (CSD or Data Repository) which programs are shown to be defined as threadsafe.

- From CM Primary Menu – select option **2** – CICS resources, hit enter
- Change filter to **CICSTXXA** and hit enter
- Enter **S** next to CICSTXXA and hit enter
- Change 2nd filter to **program** and change all other filters to *, tab to the command line and type **Search** and hit enter
- Select option **1** – new search and put a / in the field next to search criteria set 1 (notice you can have multiple attributes if you want which are logical ands as well as multiple search criteria sets which are logical or's anded together



- With cursor on top attribute line, hit pf4 and type s next to concurrency and hit enter
- Tab to OP and hit pf4 again, type s next to EQ and hit enter
- Tab to value and hit pf4, type s next to threadsafe (see next page)



- PF3 to start search and view results
- Change 3rd filter to **Workshop** and hit enter (Notice your 5 programs are listed which were changed to threadsafe in the target csd)
- PF3 twice back to CM primary menu

Exercise 5 (optional) Create report documenting changes within a CSD

In this exercise you will look at all the changes within a CSD over a period of time.

- Select option **4** from primary menu – reports and hit enter
- Select option **3** CICS changes and hit enter
- Under time criteria, change from date/time to **2008/01/01** and time to **00:00**
- Change to date/time to **today's date** and time to **23:59**

- Tab to configuration and enter **CICSTXXA** (reminder - the screenshot below has a 4/28 date so it must be changed to today's date)

```

File  Menu  Settings  Help
-----
CICS Changes Selection

Specify report search criteria and press Enter to process

Time criteria
From date/time . . . . 2003/01/01 00:00  Format YYYY/MM/DD HH:MM
To date/time . . . . . 2008/04/28 23:59  Format YYYY/MM/DD HH:MM

CICS system criteria
CICS Configuration  CICST10A  +
Context . . . . . _____ +
CSD file . . . . . _____ +

General criteria
API command . . . . . _____ +
Change Package . . . . _____ +
Scheme . . . . . _____ +
User ID . . . . . _____ +

Command ==> _____
F1=Help    F3=Exit    F4=Prompt  F5=Rlocate  F6=Zoom    F7=Backward
F8=Forward F10=Actions F12=Cancel

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```

- Hit enter three times (confirm action warning due to * filters and possible large amounts of data)

```

File  Menu  Settings  Help
-----
CICS changes          CICS Resources          Row 1 to 6 of 6
Filter * _____ * _____ + * _____

/   Name      Type      Group   Command   --- Changed --- ID
-----
EHDRIVER PROGRAM  WORKSHOP MIGRATE  2008/04/28 16:43 CICST10
EHSTARTP PROGRAM  WORKSHOP MIGRATE  2008/04/28 16:43 CICST10
EWHWORKP PROGRAM  WORKSHOP MIGRATE  2008/04/28 16:43 CICST10
EWHWORKR PROGRAM  WORKSHOP MIGRATE  2008/04/28 16:43 CICST10
TDRIVE  FILE      WORKSHOP MIGRATE  2008/04/28 16:43 CICST10
WORKP   PROGRAM   WORKSHOP MIGRATE  2008/04/28 16:43 CICST10
***** Bottom of data *****

Command ==> _____ Scroll ==> PAGE
F1=Help    F3=Exit    F4=Prompt  F5=Rlocate  F6=Zoom    F7=Backward
F8=Forward F10=PrevPage F11=NextPage F12=Cancel

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```

- Notice – this shows resource, group, the command executed as well as date and time stamps and the userid of who made the change within our timeframes specified
- PF3 twice back to reporting menu

Exercise 6 (optional) Find Orphan groups/resources

In this exercise you will find groups which are in a CSD that are not part of a list. Once identified, these are candidates to be removed and can help cleanse your CSDs of obsolete data.

- If you are on the main menu enter option **4** and hit enter, if not proceed to next step
- Enter option **4**, Orphan Groups and hit enter
- Enter **L CICSTXX** on command line and hit enter
- Enter **S** next to CICSTXX and hit enter
- Change filter to ***** and hit enter

```

File  Menu  Settings  C_checksum  Help
Orphan Groups          CICST10 CICS Resources          Row 1 to 21 of 76
Filter *_____
/   Group      Prompt                                     --- Changed ---
-----
----- DEMOGRP                                     2008/04/25 16:53
----- DFH$ACCT                                     2008/04/25 16:53
----- DFH$BABR                                     2008/04/25 16:53
----- DFH$BARF                                     2008/04/25 16:53
----- DFH$BAT                                       2008/04/25 16:53
----- DFH$BMSP                                     2008/04/25 16:53
----- DFH$BRLK                                     2008/04/25 16:53
----- DFH$CBTS                                     2008/04/25 16:53
----- DFH$CCI                                       2008/04/25 16:53
----- DFH$CFCS                                     2008/04/25 16:53
----- DFH$CTXT                                     2008/04/25 16:53
----- DFH$DB2                                       2008/04/25 16:53
----- DFH$EJB                                       2008/04/25 16:53
----- DFH$EJB2                                     2008/04/25 16:53
----- DFH$EXBS                                     2008/04/25 16:53
----- DFH$EXWS                                     2008/04/25 16:53
----- DFH$FCB                                       2008/04/25 16:53
----- DFH$GNIT                                     2008/04/25 16:53
----- DFH$ICOM                                     2008/04/25 16:53
----- DFH$IIOP                                     2008/04/25 16:53
----- DFH$JVM                                       2008/04/25 16:53

Command ==> _____ Scroll ==> PAGE
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom      F7=Backward
F8=Forward   F10=Actions  F12=Cancel

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```

- Note – These are all groups that do not belong to a list within this CSD
- PF3 three times back to CM Primary Menu

Exercise 7 (optional) Create simple Transformation rule

Transformation rules allow you to build intelligence into a change process or migration which can transform resource attributes as the resource is migrated to fit the target CSDs standards. This exercise will take you step by step through the process of creating a rule.

- Select **1** – Administration and hit enter
- Select **5** – Transformation rules and hit enter
- Type in **Def** on the command line (define) and hit enter
- Type in **CICSTXX** on the name field and hit enter (this will be the name of our transformation rule). Leave Model blank.
- Type in **‘Transform DB2 Plan Name’** in description and hit enter
- Tab down and type in **I** (under slash for insert) and hit enter

```

File Menu Settings Help
View Transform Rule Set Row 1 to 1 of 1
Name . . . . : CICST32
Description . . Transform DB2 plan name
Define transformation rules
/ Scheme Source Target Resource Resource
  Config Config Group Type Name
i
***** Bottom of data *****
    
```

- Tab down to Scheme and enter the following data next to each field:
 - Scheme = **CICSTXX**
 - Source Configuration = **CICSTXX**
 - Target Configuration = **CICSTXXA**
 - Group = *
 - Resource Type = **DB2ENTRY**
 - Resource Name = *
 - The next 3 fields should be blank (check field, check operator and check value)
 - Note: This transformation rule will apply to your migration scheme for any group with a resource type of DB2ENTRY and any name. You could also create a rule for any migration scheme (*)

- Tab and Select option **1** (Transform and continue) under Choose a Processing Option

```

File  Menu  Settings  Help

View                                     Transform Rule

Name . . . . . : CICST32
Description . . . . . _____

Qualification criteria
Scheme . . . . . : CICST32      +
Source Config . . : CICST32    +
Target Config . . : CICST32A   +
Group . . . . . : *
Resource Type . . : DB2ENTRY   +
Resource Name . . : _____
Check Field . . . : _____   +
Check Operator . . : _ +
Check Value . . . : _____   +

Choose a Processing Option
1 1. Transform and continue
    2. Transform and lock field
    3. Transform and lock record
    4. Stop migration of this resource

Transform Field and Values
Change Field . . : _____   +
Change From . . . : _____   +
Change To . . . . : _____   +

Command ==> _____
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom      F7=Backward
F8=Forward   F10=Actions  F12=Cancel

```

- Tab to Change Field and hit PF4
- Enter **S** next to plan and hit enter
- Next to Change from, type in *
- Next to Change to, type in **prodplan**

- Note: This rule will change the plan name, regardless of value to PRODPLAN for DB2ENTRYS as they migrate to production from test. You can create other rules to enforce standards as in all programs should run above the line in production, etc.

```

File  Menu  Settings  Help
-----
View                                     Transform Rule
Name . . . . . : CICST32
Description . . . . . _____

Qualification criteria
Scheme . . . . . : CICST32      +
Source Config . . : CICST32      +
Target Config . . : CICST32A     +
Group . . . . . : *
Resource Type . . : DB2ENTRY     +
Resource Name . . : _____
Check Field . . . : _____    +
Check Operator . . : _____      +
Check Value . . . : _____    +

Choose a Processing Option
1 1. Transform and continue
    2. Transform and lock field
    3. Transform and lock record
    4. Stop migration of this resource

Transform Field and Values
Change Field . . : PLAN          +
Change From . . . : *
Change To . . . . : prodplan    +

Command ==> _____
F1=Help      F3=Exit      F4=Prompt    F5=Rlocate   F6=Zoom      F7=Backward
F8=Forward   F10=Actions  F12=Cancel
    
```

- PF3 back to transform rule set page
- Type in save on the command line and hit enter (Note - that your transformation rule has been saved)
- PF3 twice back to the main menu and congratulations on completion

