



There is a new SPOC-like ISPF program to help manage IMS resources using the DRD commands

## Manage Resources Highlights

- This enhancement to the IMS Application portfolio extends its capabilities with direct support for Dynamic Resource Definition
  - ◆ Invoked from IMS Application Menu
  
- It includes a series of panels to let the user perform DRD functions against IMS MODBLKS resources and descriptors
  - ◆ Actions
    - Create, delete, update, query
  - ◆ Resource types supported are those supported by DRD
    - Databases, programs, transactions, routing codes
  - ◆ Primary technique is “fill in the blanks”
  - ◆ Panels and navigation similar to TSO SPOC panels
  
- Supports various skill levels
  - ◆ Graduated levels of help available
  - ◆ Fewer screens required for higher skill levels

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Manage Resources is invoked from the Application Menu. This is the menu that includes several other programs, including SPOC, KBLA, and the HALDB Partition Definition Utility.

Manage Resources presents a series of panels to simplify the task of creating, deleting, updating and querying the definitions used with DRD. The primary technique for creating a resource or descriptor is to present the user with a screen with a field for every attribute which the user can then fill in or let default. The defaults will be shown to the right of the field.

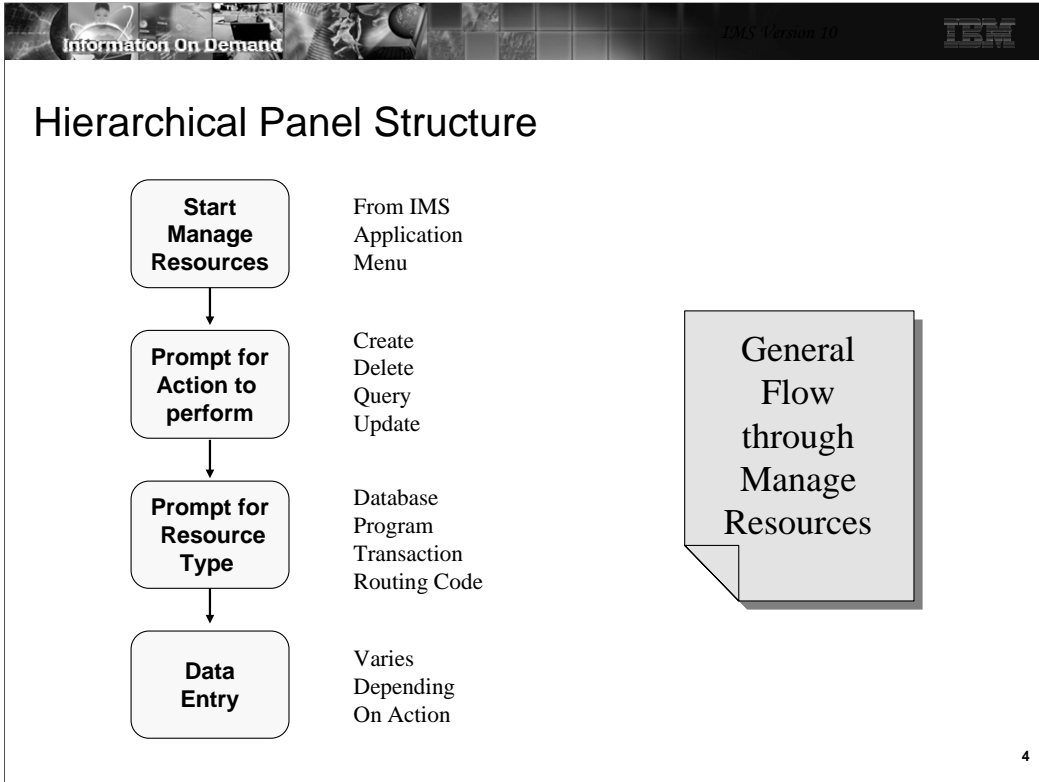
More skilled users can choose a different format that requires them to know the meaning and valid values for every field. This streamlines the process by presenting everything in a single screen.

## Manage Resources Highlights

- Manage Resources panels prompt for input
  - ◆ Select from menu
    - Action
    - Resource Type
  - ◆ Data entry
    - Default values shown where appropriate
    - List View or Command Syntax View
  
- User Preference panel enhanced to include ...
  - ◆ Select view
    - List view – fields listed with descriptive text – requires more screens
    - Command syntax view – looks like command – no descriptive text
  - ◆ Select confirmation option before submitting command – Yes or No

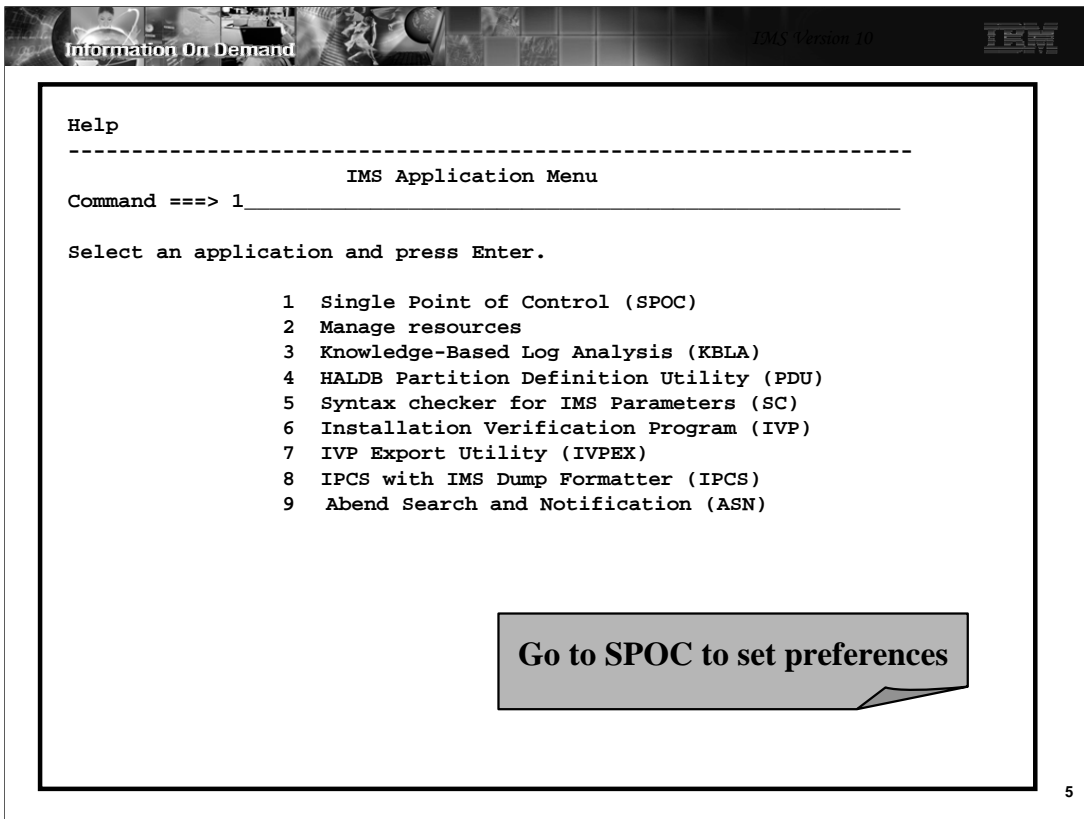
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Manage Resources will always prompt the user for the next input. It will, for example, ask you what action you want to perform against what resource or descriptor. The SPOC Preference screen lets you select a default for the view. You may select either List View which is designed for the less skilled user and the Command System View which is intended for the more skilled user. You can tell the program that you do not want to confirm every entry that would update a resource or descriptor.



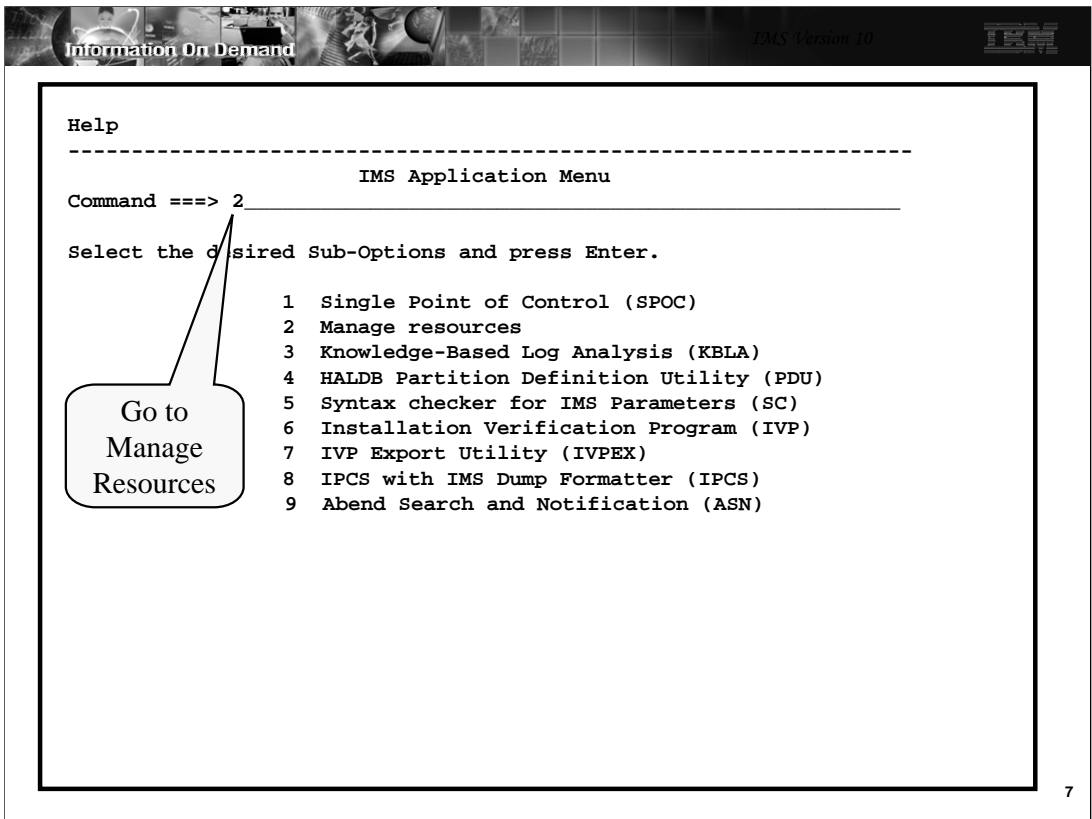
The basic flow is:

- Start Manage Resources from the IMS Application Menu
- Select the action you want to perform (e.g., create a definition)
- Select the resource type (e.g., create a DATABASE)
- Enter the data (e.g., enter the database name and attributes)

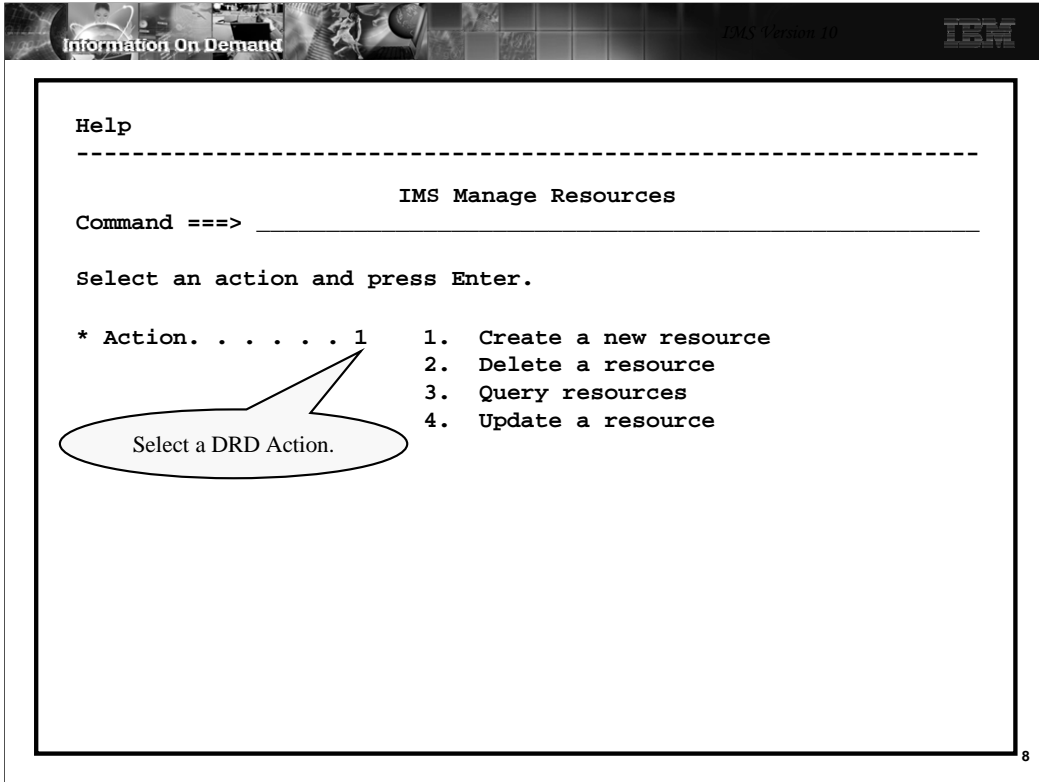


Start the IMS Application Menu and select Option 1 – SPOC. You should go to SPOC first to set your preferences for Manage Resources.





Go back to Application Menu and select Manage Resources



Tell Manage Resources what action you want to perform.

Here we say we want to Create a new resource. On this screen, “resource” means either resource or descriptor.

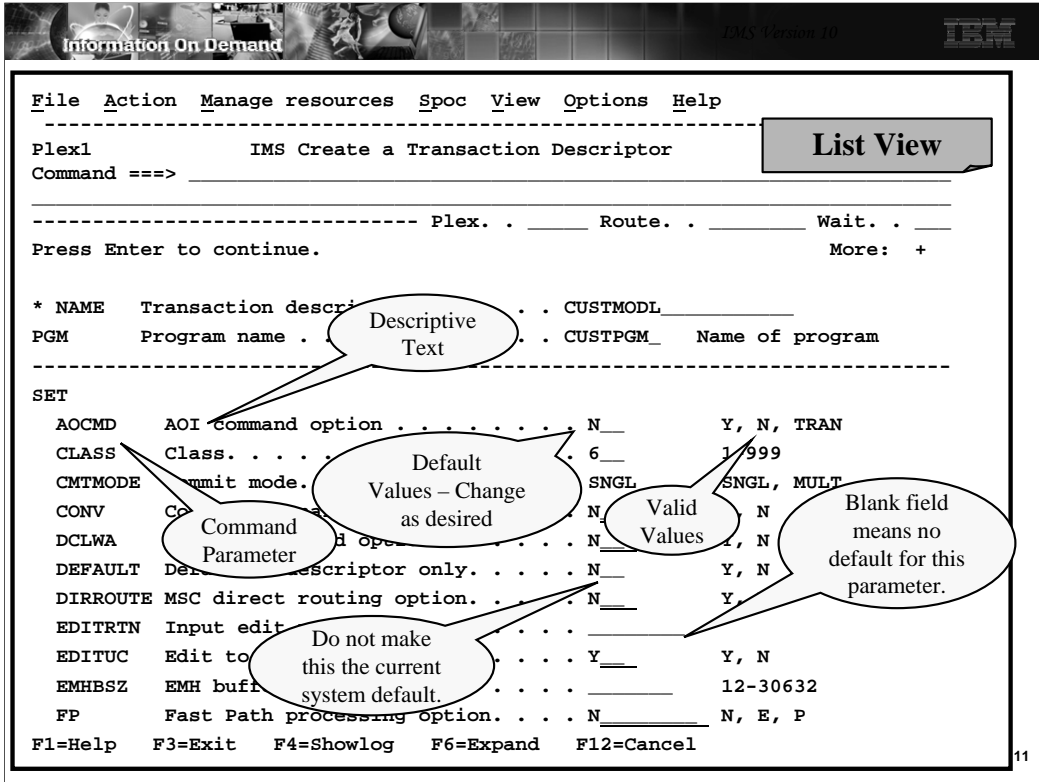


## Create Resources

- The following screens show an example of creating a transaction descriptor and two transactions
  - ◆ Multiple resources of the same type can be created with a single command
  - ◆ Separate resource names by commas
  
- The first set of screens uses the “List View”
  - ◆ Each parameter on a separate line with a short description
  
- The second set of screens shows the same CREATE action using the “Command Syntax View”
  - ◆ Fewer screens
  - ◆ Requires higher skill level

The next few screens are an example of creating a transaction descriptor then using that descriptor to create two transactions. Both the List View and Command Syntax View are shown.





Manage Resources sends us screens (List View – that was our preference) with all the possible attributes for transaction descriptors. There will be multiple screens since there are more attributes than will fit on one screen in List View.


At the top of the screen, enter the name or names of the descriptors you want to create and the name of the program.

Since we opted to use the system default transaction descriptor, the third column will have these defaults already filled in. If the field is blank, there is no default. You can change those you want to change and leave the rest as they are. The far right column shows the valid values for the field.

Press F8 to scroll forward and F7 to scroll backward through all the screens.

After entering all the data, pressing Enter will either send a CREATE TRANDESC command to IMS or will ask you to confirm.



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File Action Manage resources Spec View Options Help

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Plex1 IMS Create a Transaction List View

Command ==>> \_\_\_\_\_

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Flex. . \_\_\_\_ Route. . \_\_\_\_ Wait. . \_\_\_\_

Press Enter to continue. More: +

Based on definition template . . . : CUSTMODL

\* NAME Transaction name . . . . . CUSTADD,CUSTUPD \_\_\_\_\_

PGM Program name . . . . . CUSTPGM\_ Name of program

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SET

AOCMD	AOI comm	. . . . .	N__	Y, N, TRAN
CLASS	Class. . . . .		12_	1-999
CMTMODE	Commit mode. . . . .		SNGL	SNGL, MULT
CONV	Conversational . . . . .		N__	Y, N
DCLWA	Log write-ab . . . . .		N__	Y, N
DEFAULT	Default . . . . .		N__	Y, N
DIRROUTE	MSC di . . . . .		N__	Y, N
EDITRTN	Input edi . . . . .		_____	
EDITUC	Edit to uppercase . . . . .		Y__	Y, N
EMHBSZ	EMH buffer size. . . . .		_____	12-30632
FP	Fast Path processing option. . . . .		N_____	N, E, P

F1=Help F3=Exit F4=Showlog F6=Expand F12=Cancel

Using descriptor just created as Model.

Change class from 6 to 12. Make other changes as desired.

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Change any attributes that should be different from the descriptor. In this example, we are changing the class from 6 to 12.

## Create Resource

- Scroll through the screens using ISPF function key assignments
  - ◆ PF8 – scroll forward
  - ◆ PF7 – scroll back
  
- Make changes to defaults on the screen and press Enter to submit
  
- A confirmation screen will be presented if elected in Preferences
  
- Press enter again and Manage Resources will submit command to IMS(s)
  - ◆ Manage Resources will edit input for valid field values
    - Does not cross check multiple fields
  - ◆ IMS edits input and returns success or failure

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If your preference is to confirm all updates, a confirmation screen will be displayed. Check the definitions and press Enter again. Manage Resources will submit a CREATE TRAN command for you.

Note that Manage Resources will edit fields for valid values but will not cross-check to be sure definitions are consistent. For example, Manage Resources will not verify that a RTC is assigned to an FPE program, or that a FP transaction is not conversational. This is done only by IMS.

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Plex1 IMS Create a Transaction

Command ==> \_\_\_\_\_

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----- Plex. . \_\_\_\_\_ Route. . \_\_\_\_\_ Wait. . \_\_\_\_\_

You are about to create the following transaction on your system.  
 Press Enter to continue or Cancel to go back.

Based on definition template . . . : CUSTMODL

NAME Transaction name . . . . . : CUSTADD, CUSTUPD

PGM Program name . . . . . : CUSTPGM

---

SET

AOCMD AOI command option . . . . . : N

CLASS Class . . . . . : 12

CMTMODE Commit mode . . . . . : SNGL


CONV Conversational . . . . . : N

DCLWA Log write-ahead option . . . . . : N

DEFAULT Default - descriptor only . . . . . : N

DIRROUTE MSC direct routing option . . . . . : N

EDITRTN Input edit routine . . . . . :



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F1=Help F3=Exit F4=Showlog F6=Expand F12=Cancel

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If you asked to confirm, you will be presented with a confirmation screen. Check it out and press enter again.

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**It's done.**

Plex1 IMS Create a Transaction

Command ==> \_\_\_\_\_

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----- Plex. . \_\_\_\_\_ Route. . \_\_\_\_\_ Wait. . \_\_\_\_\_

CSLM0xxI Transaction CUSTADD and CUSTUPD created successfully.

Press Enter to continue. More: +

Based on definition template . . . CUSTMODL

NAME Transaction name . . . . . CUSTADD,CUSTUPD

PGM Program name . . . . . CUSTPGM\_ Name of program

---

SET

AOCMD	AOI command option . . . . .	N__	Y, N, TRAN
CLASS	Class . . . . .	12_	1-999
CMTMODE	Commit mode . . . . .	SNGL	SNGL, MULT
CONV	Conversational . . . . .	N__	Y, N
DCLWA	Log write-ahead option . . . . .	N__	Y, N
DEFAULT	Default - descriptor only . . . . .	N__	Y, N
DIRROUTE	MSC direct routing option. . . . .	N__	Y, N
EDITRTN	Input edit routine . . . . .	_____	
EDITUC	Edit to uppercase . . . . .	Y__	Y, N

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F1=Help F3=Exit F4=Showlog F6=Expand F12=Cancel

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If everything went well, you will get a message indicating success. If the command failed, you will get an error message.

With this command we are creating two transactions with exactly the same attributes.



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Help  
-----  
**IMS Single Point of Control Preferences**  
 Command ==> \_\_\_\_\_

Select your options and press the Enter key.

**Manage Resources Preferences**

Resource definition  
 dialog layout . . . . . 2

1. List view.
2. Command syntax view.

Confirm resource  
 changes . . . . .

1. Confirm changes
2. Do not confirm changes

**Storage Management Preferences**

Maximum number of commands . . . . . in status list  
 Delete command responses after . . . . . minutes

F1=Help F12=Cancel

Change View  
to Command Syntax.

Alternatively, you can use Command Syntax View. You may return to the SPOC screen which was shown earlier to change this selection.

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Plex1 IMS Create a Transaction

Command ==> \_\_\_\_\_

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----- Plex. . \_\_\_\_\_ Route. . \_\_\_\_\_

Press Enter to continue.

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CREATE TRAN NAME(CUSTADD,CUSTUPD) LIKE(DESC(CUSTMODL))
SET( AOCMD(N) CLASS(12) CMTMODE(SNGL) CONV(N) DCLWA(N)
DIRROUTE(N) EDITRTN(_____) EDITUC(Y) EMHBSZ(____) FP(E)
INQ(N) LCT(65535) LPRI(1) MAXRGN(0) MSGTYPE(SNGLSEG)
MSNAME(_____) NPRI(1) PARLIM(65535) PGM(APOLWEB )
PLCT(65535) PLCTIME(6553500) RECOVER(Y) REMOTE(N) RESP(Y) SEGNO(0)
SEGSZ(0) SERIAL(N) SIDL(____) SIDR(____) SPASZ(____) SPATRUNC(____)
TRANSTAT(N) WFI(N) )

```

LIKE included only if a template was specified.

**Command Syntax View**

- ❖ Fits on one screen
- ❖ Requires more skill

F1=Help F3=Exit F4=Showlog F6=Expand F12=Cancel

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This is the same input as the previous CREATE TRAN but this shows the exact syntax of the command without all the help (field descriptions and valid values).

## Querying Resources

- Support for the QUERY command has been enhanced
  - ◆ Short cut to displaying ALL attributes of a resource
    - QRY xxxx SHOW(ALL)
  - ◆ Short cut to displaying resources with “exceptional” status
    - QRY xxxx <user-default filters>
  - ◆ Build customized queries
    - QRY xxxx <customized filters>
  - ◆ Field level help on all displayed fields
    - Put cursor on column heading and press F1

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Manage Resources also supports a QRY capability. This capability has a shortcut for displaying all attributes of a resource. You can choose to display only resources with exceptional status. You decide what is exceptional. You can also build custom queries which show only a subset of the attributes.

The QRY results screen has a column where you can enter line commands.

Help is available for individual fields on each screen.

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File  Action  Manage resources  Spoc  View  Options  Help
-----
Plex1                                IMS Query Resources
Command ==> _____
----- Flex. . _____ Route. . _____ Wait. . _____

Select a resource type. Press Enter to continue.

* Resource. . . . . 4  1. Database
                       2. Program
                       3. Routing Code
                       4. Transaction

Resource name . . . . . A*
Resource type . . . . . 1  1. Resource
                               2. Descriptor

* Query type. . . . . 1  1. Show all
                               2. Exceptions
                               3. Custom

F1=Help  F3=Exit  F4=Showlog  F6=Expand  F12=Cancel

```

Show ALL attributes of all transactions beginning with "A"

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From this screen you can enter the resource or descriptor type and the its name or names, select either resource or descriptor, and choose the query type. In this case, we have chosen to query all transaction resources beginning with A and to show all of the attributes.

## Manage Resources Summary

- An ISPF program
  - ◆ Screens have same look and feel as TSO SPOC
- Greatly reduces users need to
  - ◆ Format of CREATE, DELETE, UPDATE, and QUERY commands
  - ◆ Need to know names and valid values for attribute
- Provides two views
  - ◆ List view for less skilled operators
    - Requires more screens (in most cases)
  - ◆ Command syntax view for more skilled operators
    - Generally requires a single screen
- Manage Resources is especially valuable for test systems

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Manage Resources greatly reduces the need for the user to know the names of all the attributes and their valid values. It also eliminates the need to know the exact format of the commands. For those that do know the names and values for the attributes, a Command Syntax View is available to reduce the number of screens required for some commands – especially those related to transactions which have lots of attributes.

Some installations will find Manage Resources to be especially valuable for test systems. With production systems they may prefer the use of standard commands for DRD. This may be more easily audited. For test systems Manage Resources provides a convenient and flexible interface for quickly changing resource definitions.