

# **Unicenter<sup>®</sup> CA-FAQS<sup>®</sup>** **Automated Systems Operation** **for VSE**

**Trial Guide**

**5.0**



Computer Associates<sup>®</sup>

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# Contents

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## Chapter 1: Introduction

|                                     |     |
|-------------------------------------|-----|
| Automated Operations Features ..... | 1-1 |
| Online Features .....               | 1-2 |
| REXX Support .....                  | 1-3 |
| Demonstration .....                 | 1-4 |
| Tutorial .....                      | 1-5 |

## Chapter 2: Using Unicenter CA-FAQS ASO Online

|                                                     |      |
|-----------------------------------------------------|------|
| Accessing Unicenter CA-FAQS ASO Online .....        | 2-2  |
| Interface Commands .....                            | 2-2  |
| Default Unicenter CA-FAQS ASO Display .....         | 2-3  |
| Accessing the Default Console Display .....         | 2-3  |
| Setting Up Security .....                           | 2-4  |
| SCTY (Security) Command .....                       | 2-4  |
| Task 1: Creating a User Security Definition .....   | 2-4  |
| Task 2: Initializing Security .....                 | 2-7  |
| Displaying the System Console .....                 | 2-9  |
| Task 1: Displaying the Current Console .....        | 2-10 |
| Task 2: Setting Console Timed Redisplay .....       | 2-13 |
| Displaying POWER Queue Information .....            | 2-14 |
| Task 1: Displaying Print Queue Members .....        | 2-15 |
| Task 2: Browsing Through a Print Queue Member ..... | 2-15 |
| Task 3: Displaying Reader Queue Members .....       | 2-17 |
| Task 4: Editing a Reader Queue Member .....         | 2-18 |
| Additional POWER Commands .....                     | 2-20 |
| Panels and Creating Online Commands .....           | 2-21 |
| Task 1: View Unicenter CA-FAQS ASO Menus .....      | 2-21 |
| Task 2: Create a New FAQs command .....             | 2-22 |

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|                                               |      |
|-----------------------------------------------|------|
| Opening a Temporary Command Line .....        | 2-27 |
| Task 1: Correcting JCL Errors .....           | 2-27 |
| Task 2: Displaying Message Explanations ..... | 2-29 |
| On Your Own .....                             | 2-30 |
| Additional Commands .....                     | 2-30 |

## Chapter 3: Managing Messages

|                                                      |      |
|------------------------------------------------------|------|
| Managing Actions and Action Files .....              | 3-2  |
| Task 1: Creating Your Own Initialization Files ..... | 3-2  |
| Task 2: Tailoring an Action File .....               | 3-6  |
| Task 3: Editing an Existing Action .....             | 3-7  |
| Task 4: Creating an Action .....                     | 3-8  |
| Replying To a Message .....                          | 3-10 |
| Task 1: Creating a Sample Jobstream .....            | 3-10 |
| Task 2: Creating an Automated Message Reply .....    | 3-11 |
| Defining Console Commands .....                      | 3-13 |
| Defining a Console Command, SHUTCICS .....           | 3-13 |

## Chapter 4: Creating and Executing IMODS

|                                                          |      |
|----------------------------------------------------------|------|
| What Is REXX? .....                                      | 4-1  |
| What is an IMOD? .....                                   | 4-2  |
| Examples .....                                           | 4-2  |
| IMOD Programming Guidelines .....                        | 4-2  |
| Displaying and Executing a Sample IMOD .....             | 4-2  |
| Task 1: Displaying \$JOBACCT .....                       | 4-3  |
| Task 2: Examining \$JOBACCT .....                        | 4-4  |
| Task 3: Executing \$JOBACCT from an Online Command ..... | 4-7  |
| Task 4: Executing \$JOBACCT from a Console Command ..... | 4-10 |
| Creating Your Own IMOD .....                             | 4-12 |
| Task 1: Creating an IMOD, SHUTCICS .....                 | 4-12 |
| Task 2: Executing SHUTCICS .....                         | 4-15 |

---

## Chapter 5: Console Filtering

|                                            |      |
|--------------------------------------------|------|
| Task 1: Creating a Filter Member .....     | 5-2  |
| Task 2: Defining a Console Action .....    | 5-5  |
| Task 3: Setting a Variable .....           | 5-8  |
| Task 4: Defining a Console Condition ..... | 5-12 |

## Index



# Introduction

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This chapter provides a general overview of Unicenter CA-FAQS Automated System Operations for VSE, hereafter called Unicenter CA-FAQS ASO, and introduces the tutorial.

## Automated Operations Features

The following is a summary of the automation features of Unicenter CA-FAQS ASO. These functions are initialized by GSFAQS at system startup or are provided by batch utility programs. For more information on the system automation features, see the Unicenter CA-FAQS ASO *User Guide*.

- Message management
  - Highlight or suppress messages
  - Automatically reply to messages
  - Issue console commands
  - Trigger IMODs
  - Send message to another system
- User-defined console commands
  - Simplify common commands
  - Run REXX IMODs
- End-of-job reporting
  - Job statistics by step
  - Phase load report
  - Phase load search chain report
  - Console listing
- Hardcopy file print utility

## Online Features

These features are provided by FAQSMAIN and one or more online interfaces running in one or more partitions. For more information on online functions, see the Unicenter CA-FAQS ASO *Online User Guide*.

- Online access available from CMS, CICS, VTAM, and ICCF
- System console support
  - Current console with optional system status areas
  - Enter console commands, reply to messages
  - Delete held lines
  - Redisplay with partition selection, search capabilities
  - Console filters to tailor individual user's consoles
  - Display message explanations
- POWER management
  - View POWER queues and issue POWER commands
  - View contents of members
  - Print members on CICS printers with CPR
  - Edit and submit members
  - Transfer to members to CMS
  - View POWER configuration and queue status information
- Monitor system activity
  - Displays of job and phase names, duration, CPU time, I/O usage, and task status
  - Total CPU utilization and paging activity
  - Outstanding replids
- View system configuration information
  - Display DASD VTOC information
  - View and alter DASD data
  - View maps of system, dynamic class, and partition storage
  - View partition library search chains
  - Display label area information
  - Display tape and DASD volume information
  - Display LISTIO information

- Problem determination aids
  - Debug panels show what tasks are doing
  - Display storage and dataspace
  - GETVIS utilization and mapping
  - Display locking information
- Extensive online HELP panels
- Access to other Computer Associates products, such as Unicenter CA-Explore Performance Management (hereafter called Unicenter CA-Explore), BrightStor CA-MASTERCAT VSAM Catalog Management for VSE (hereafter called BrightStor CA-MASTERCAT), AllFusion CA-FLEE, and Unicenter CA-Deliver Output Management for VSE (hereafter called Unicenter CA-Deliver)

## REXX Support

REXX is a feature of CA-GSS for VSE. CA-GSS provides support for compiling and executing REXX IMODs (Intelligent MODules) from a batch program (REXXBAT) or as a JCL PROC statement. Unicenter CA-FAQS ASO adds the ability to execute REXX IMODs from the online command line, from system console commands, or from message actions.

This support is provided by the program FAQSAO which must be executing in a partition. An additional program, FAQSVSPO, runs as a subtask in the same partition as FAQSAO and provides a REXX interface to VTAM.

In addition, Unicenter CA-FAQS ASO provides support for a number of REXX functions and address environments that can be useful for system automation. These functions are documented in the CA-GSS For VSE *REXX Guide*.

## Demonstration

To view an online demonstration of Unicenter CA-FAQS ASO, follow these steps:

1. From the online command line, enter  
MENU.
2. From the menu command line, enter **D** (this option does not appear on the menu itself).
3. After each step, press PF3 to continue. You can also use the PF keys listed at the bottom of the panels to view additional information.
4. When you return to the menu, press PF12 to return to the online command line. The commands you can enter are:

**D C**

Display current console without status information

**D S,S**

Display current console with status display

**D S,W**

Display current console with status window

**MSGOP**

Send a message to the system console

**ASO J**

Display partition and subtask information

**MAP**

Display the static partition map

**D RDR,0**

Display the POWER RDR queue entries for class 0

**D LST**

Display the POWER LST queue

**DISPLAY BG**

Display BG storage

**DEBUG**

Display DEBUG panel

**LIBLIST BG**

Display LIBLIST information for BG

**LSERV STD**

Display system standard label information

**VTOC DOSRES**

Display a VTOC listing of the DOSRES volume. If there is no DOSRES volume, you receive an error. In this case, issue the following command from the online command line after the demonstration program has finished:

```
VTOC volser
```

*volser* is any valid volume on your system.

**VOLUME**

Display DASD and TAPE volume summary

## Tutorial

This introductory tutorial covers a few basic features of Unicenter CA-FAQS ASO.

Before you can complete the tutorial, the following steps must be completed:

1. Install and initialize Unicenter CA-FAQS ASO using the sample startup file FAQSASO. For instructions, see the Unicenter CA-FAQS Automated Systems Operation for VSE and Unicenter CA-FAQS Production Control System for VSE *Getting Started*.
2. Ensure that FAQSMAIN is running in a partition with at least one online interface.

The tutorial covers four basic areas:

- Using Unicenter CA-FAQS ASO Online
- Message management and console commands
- Creating and executing IMODs
- Creating console filters



# Using Unicenter CA-FAQS ASO Online

---

This chapter shows you how to use Unicenter CA-FAQS ASO Online.

Unicenter CA-FAQS ASO Online provides an alternate console to your VSE system console. The following are just some of the many online features of Unicenter CA-FAQS ASO. You can:

- Monitor system and job status
- Access important system and job information
- Issue replies, POWER commands, and AR (Attention Routine) commands

In this chapter you will learn how to:

- Create a user security definition
- Display the system console
- Tailor the console display using security
- Display POWER queue information
- Create online commands
- Use the cursor command
- Use online help to access information about Unicenter CA-FAQS ASO commands

## Accessing Unicenter CA-FAQS ASO Online

You must access Unicenter CA-FAQS ASO Online before you can use any of its online features. This section gives you a brief review of accessing Unicenter CA-FAQS ASO, and presents the default displays you will encounter when you enter Unicenter CA-FAQS ASO for the first time.

### Interface Commands

You can use the following commands to access Unicenter CA-FAQS ASO Online:

From VM, to access Unicenter CA-FAQS ASO through CMS, enter:

```
FAQS machine
```

*machine* is your target VSE machine name.

From CICS, to access Unicenter CA-FAQS ASO from CICS, enter:

```
FAQS
```

From VTAM, to access the Unicenter CA-FAQS ASO VTAM application, enter:

```
LOGON APPLID(applid)
```

*applid* is the VTAM application ID you specified when you defined the VTAM *applid* in the VTAM VBUILD.

You will access the DCMTDRIV Main Menu. From this menu, choose option **2** to enter Unicenter CA-FAQS ASO Online.

## Default Unicenter CA-FAQS ASO Display

If you are accessing Unicenter CA-FAQS ASO for the first time, you will see a help menu:

```

Unicenter CA-FAQS ASO ON-LINE FACILITY
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D C ..... Display system console
D S <,S | ,W | J> ..... Display split <Screen | Window>
D F ..... Display forward on console log
D L ..... Display backward on console log
K E ..... Delete a line from system console
CURSOR cmd ..... Generate command line at cursor pos
SCROLL ..... Begin/end SCROLL feature.
SCROLLS ..... Suspend/restart screen scrolling.
D RDR/LST/PUN..... List of requested POWER que members
MAP ..... Map of partitions' space allocation
MAP GETVIS ..... Current GETVIS allocations
MAP idGETVIS ..... GETVIS hole report for partition id
PRTY J ..... System status / Job overview report
DEBUG <OLD|ALL>..... Display of system control blocks
MENU ..... Menu driven panel access
MSGOP msg..... Send a message (msg) to Operator
MSG xxxx ..... Display info for error message xxxx

ENTER FAQS COMMAND      (OPERATOR MODE)                (SCROLL) 21:19:42
HELP
    
```

## Accessing the Default Console Display

To access the current console display from the help menu, enter **D C. A** Unicenter CA-FAQS ASO console display like the following is displayed:

```

          DATE 04/02/2002, CLOCK 12/00/49, DURATION 00/00/07      12:00:49
BG 0001 1Q34I  BG WAITING FOR WORK                                12:00:49
F1 0001 1Q34I  LST WAITING FOR WORK ON FEE                       12:00:49
45 &evrload
N1 0045 GJJ245I RELOAD CURRENT EVENTS REQUESTED                 12:01:10
N1 0045 GJJ830I EVENTS SUCCESSFULLY LOADED                     12:01:13
N1 0045 GJJ206I JOB SCHEDULER ACTIVE                            12:01:13
N1-0045
F1 0001 1Q34I  RDR WAITING FOR WORK ON FEC                       12:01:25
BG 0001 1Q47I  BG DSNTTEST 19890 FROM DEADMIN4 , TIME=12:01:25 12:01:25
BG 0000 // JOB DSNTTEST ASO/PCS 5.0 ON LVL1COL6                 12:01:25
          DATE 04/02/2002, CLOCK 12/01/25                        12:01:25
N1 0045 GJJ209I FOLLOWING EVENT COMMANDS BEING SCHEDULED:      12:01:25
N1 0045 AKGSPDSU.JCL                                           12:01:25
N1 0045
BG 0000 CASD201I RCD IN          0,OUT          133             12:01:25
BG 0000 CASD202I RCD INSERT          133,DELETE          0      12:01:25
BG 0000 CASD212I CA-SORT END                                             12:01:25
BG-0000 // PAUSE CHECK IF EVENT TRIGGERED THEN CANCEL           12:01:25
N1 0045 GJJ209I FOLLOWING EVENT COMMANDS BEING SCHEDULED:      12:01:26
N1 0045 DSNOPEN.OAL                                             12:01:26
N1 0088 test dsn open                                             12:01:26
0
ENTER FAQS COMMAND      (OPERATOR MODE)                12:09:14
DEADMIN4 XCM ADMIN02
    
```

Once you have accessed Unicenter CA-FAQS ASO Online, you can initialize security and create your own user security definition.

## Setting Up Security

To use the Unicenter CA-FAQS ASO security feature, you must initialize it. In other words, you need to tell Unicenter CA-FAQS ASO that it should be checking individual security definitions, instead of the default security entry, PROFILE, when someone tries to sign on.

In addition, before you can access any of the automated operations features of Unicenter CA-FAQS ASO, or execute commands from Unicenter CA-FAQS ASO Online, you should create a user security definition for yourself and enable that definition.

### SCTY (Security) Command

The SCTY command takes you to a series of panels. From these panels, a security administrator can authorize users to issue certain commands (or limit the commands they can issue) and authorize users to access automated operations features.

In this section, you will perform the following tasks:

1. Create a user security definition.
2. Initialize security.

The functions described in this section are not supported on a Mod 5 terminal. If you are using a CMS interface, you can specify STD after the VSE machine name on the FAQS command. For the CICS and VTAM interfaces, your terminal must be defined as Mod2, 3 or 4.

### Task 1: Creating a User Security Definition

While you can always use the default security definition provided with Unicenter CA-FAQS ASO, most installations prefer that users have different security authorizations based on their different needs for system access.



- Three-character CICS operator ID or eight-character CICS userid.
- VTAM terminal ID

For demonstration purposes, create a user ID called CMSID.

Overtyping the SINON COMMAND entry, HELP, with **OPS**. Your panel should look like the following:

```

Unicenter CA-FAQS ASO SECURITY          EDIT
USER-ID      CMSID      PASSWORD      UNUSED      ADMIN ( X )
AUTO SINON   YES ( X )  NO ( )    ONLY ( )
INTERFACES   ALL ( X )  CICS ( )  ICCF ( )  CMS ( )  OTHER ( )
VM MACHINE   ALL  INCLUDE EXCLUDE  USER-ID  USER-ID  USER-ID  USER-ID
RESTRICTIONS ( X ) ( ) ( )
CICS TERMINAL ALL  INCLUDE EXCLUDE  TERM  TERM  TERM  TERM  TERM
RESTRICTIONS ( X ) ( ) ( )
RETURN PROGRAM _____ ALLOW RETURN TO ALTERNATE PROGRAM ON EXIT FOR CICS
SINON COMMAND D C          ENTER FAQS INITIAL ENTRY COMMAND
REDISPLAY TIME 004        ENTER DEFAULT TIMED RE-DISPLAY INTERVAL (SECONDS)
REDISPLAY MIN  002        ENTER MINIMUM TIMED RE-DISPLAY INTERVAL (SECONDS)
REDISPLAY IDLE 005        ENTER MAXIMUM TIMED RE-DISPLAY IDLE TIME (MINUTES)
FAQS SHU,Y OR N ( X ) ALLOW USER TO ISSUE IUCV/VMCF SHUTDOWN COMMANDS
PF01=HELP PF03=END PF05=UPD PF07=BWD PF08=FWD
    
```

It is important to note that this security definition will be an *administrator* definition. Notice the X in the ADMIN field. A Unicenter CA-FAQS ASO security administrator can create and tailor user definitions for all Unicenter CA-FAQS ASO users.

Only an administrator can access security using the SCTY command. As a result, if you want to return to the security panels (which you do), the definition you create must be authorized as an administrator definition.

By default, the PROFILE user definition is authorized as an administrator. Now that you have created your own administrator security definition, you will want to edit the PROFILE user definition and remove its administrator authorization.

Once you have disabled the PROFILE administrator authorization, access to the SCTY command and selected Unicenter CA-FAQS ASO features will be limited to security administrators.



Procedure

To initialize security, following the steps below.

1. From the initial security panel you just left in the previous procedure, enter **X** in the CONFIG input field. The following panel is displayed:

```

Unicenter CA-FAQS ASO SECURITY          CONFIG
USE SCTY ENTRY NOT ONLY PROFILE      (  )   POWER QUEUE  COLOR  ATTR
CLEAR KEY IS CLEAR NOT QUIT          (  )   ACTIVE    ( GREEN ) ( _ )
DISPLAY EXTENDED MESSAGE              (  )   FREE      ( YELLOW ) ( R )
ALLOW DUMP DASH FUNCTION              ( X )   HOLD      (  TURQ  ) ( _ )
ALLOW ALTER DASH FUNCTION             ( X )
UPPER CASE ALL DISPLAYS               (  )   MISC.     COLOR  ATTR
EXTENDED DUMP ON SUBTASK ABEND        (  )   HEADERS   ( WHITE  ) ( R )
USE XPCC ON POWER COMMANDS            ( X )   D S       (  TURQ  ) ( R )
SUPPORT IBM IESMSGs FILE              ( X )
(CLOSE NO LONGER SUPPORTED)           ( X )   PASSWORD MAX DURATN ( 000 )
DO NOT SUPPORT APL TEXT CHARACTERS    (  )

PF01=HELP PF03=END PF05=UPD PF07=BWD PF08=FWD
    
```

2. Enter **X** in the USE SCTY ENTRY NOT ONLY PROFILE field. This tells Unicenter CA-FAQS ASO to check the user ID of the user trying to enter the product and use any secured features.
3. Press PF05 (UPD) to update the new security configuration. You will return to the initial security panel.
4. Press PF03 (END) to exit security.
5. Reenter Unicenter CA-FAQS ASO.

The procedure you use to reenter Unicenter CA-FAQS ASO should be the same procedure you used to enter Unicenter CA-FAQS ASO at the beginning of this chapter.

If the user ID of the user trying to enter Unicenter CA-FAQS ASO matches a user ID defined in security, that user will go directly to the current console display in operator mode.

If the user ID of the user trying to enter Unicenter CA-FAQS ASO does not match a user ID defined in security, that user will see the following panel. This means that the user can still enter Unicenter CA-FAQS ASO by typing a user ID and optional password, or by pressing ENTER and using the default PROFILE security definition.

```

***** F A Q S *****

      // // //
      // // //

      CCCC  A   III
       C    A A   I
       C    AAAAA I
       C    A  A   I
      CCCC A  A   III

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ENTER USER ID
ENTER PASSWORD
NEW PASSWORD          VERIFY

```

## Displaying the System Console

You can use Unicenter CA-FAQS ASO to display your system console and automatically redisplay it at selected intervals. You can also tailor Unicenter CA-FAQS ASO to route messages and highlight messages, and you can change the colors of system messages or partition messages.

In this section, you will perform the following tasks:

1. Set the console display mode. Use the following commands to display the current console:

### D C

Display the current console.

### D S,S

Display the current console in a split panel. Job statistics are displayed at the top; the current console is displayed at the bottom. The SCROLL feature outlined below can be used with D S,S.

### D S,W

Display the current console in a window format with task status information in the upper right-hand corner.

### D S,J

Display ASO J statistics at the top and the current console at the bottom of the display.

There is insufficient space on split panel displays to display all task information. As a result, only the highest priority partitions are displayed. To circumvent the restriction, use the SCROLL feature to allow all partitions to scroll through the window. This feature can be set by default in the security panels or you can enter SCROLL from the FAQs command line.

Through the Unicenter CA-FAQS ASO extensive security, all of these displays can be tailored to individual users. For example, you could limit a user ID to see only the console display for the BG partition.

2. Set console timed redisplay. Set Unicenter CA-FAQS ASO to redisplay the current console at any interval from 1 to 99 seconds, using the OP command.

## Task 1: Displaying the Current Console

This section will take you through samples of all of the console displays.

### Standard Console Display (D C)

The D C command displays the current system console.

From the FAQS command line, enter **D C**. A panel like the following is displayed:

```

N1-0045 GJJ206I JOB SCHEDULER ACTIVE                                12:01:13
BG 0000 EOJ DSNTTEST  MAX.RETURN CODE=0000                        12:01:29
      DATE 04/02/2002, CLOCK 12/01/29, DURATION  00/00/04        12:01:29
F1 0001 1Q34I  LST WAITING FOR WORK ON FEE                       12:01:29
BG 0001 1Q47I  BG ANALYZE 19891 FROM DEADADMIN4(R000) , TIME=12:01:29 12:01:29
BG 0000 // JOB ANALYZE SYSS$XXX                                   12:01:29
      DATE 04/02/2002, CLOCK 12/01/29                            12:01:29
BG 0000 PDS INTEGRITY PROCESSOR PARAM: PDS=SYSS$MON,ANALYZE     12:01:29
BG 0000 BLOCKS MAPPED = 05943                                     12:01:30
BG 0000 BLOCKS DELETED = 00054                                   12:01:30
BG 0000 BLOCKS IN FILE = 00330                                   12:01:30
BG 0000 ACTIVE MEMBERS = 00228                                  12:01:30
BG 0000 DIRECTORY BLKS = 00003                                  12:01:30
BG 0000 HIFILE BLOCKS = 05559                                   12:01:30
BG 0000 HIFILE ACTUAL = 05562                                   12:01:30
BG 0000 EOJ ANALYZE  MAX.RETURN CODE=0000                        12:01:30
      DATE 04/02/2002, CLOCK 12/01/30, DURATION  00/00/01        12:01:30
BG 0001 1Q34I  BG WAITING FOR WORK                               12:01:30
F1 0001 1Q34I  LST WAITING FOR WORK ON FEE                       12:01:30
F6 0006 GFX004I ADMIN02 SESSION ESTABLISHED                      12:09:02
F6 0085 GFX101I INITIATED FAQXASUB 5.0-0203 03/21/02            12:09:02
F6 0084 GFX101I INITIATED FAQXCSUB 5.0-0203 03/21/02            12:09:02
F6 0081 GFT261I NO ONLINE COMMAND FILE FOUND                    12:09:02

ENTER FAQS COMMAND                                              12:12:53

DEADMIN4 XCM ADMIN02

Split Panel Console (D S,S)
    
```

The D S commands allow you to access more job information than the D C command. You can use the D S,S command to display the current console in a split panel with job statistics displayed in the top half of the panel and current job information displayed in the bottom half of the panel.

From the FAQs command line, enter **D S,S**. A panel like the following is displayed:

```

      JOBNAME  PHASE    DURATION  CPU SEC.  SIO CNT  TASK STATUS
F1     POWSTART E25POWER  02.51.55  001.53    8256     82 82
F5     FAQSVMX  FAQSVMX   02.44.43  001.67     75     82
F6(0)  FAQSMAIN  FAQSMAIN  00.16.16  001.03    1905    82 82 82 83 83 82 83
F3     VTAMSTRT ISTINCVT  02.45.01  002.19    1944    82 82 82 82 82 82
N1     JCLSCHED JCLSCHED  02.44.35  003.76    6624    82 82 82 82
CPU :   0.25%    PAGING  IN :    0/SEC    OUT :    0/SEC
REPLY -> N1-0045
-----
N1-0045 GJJ206I JOB SCHEDULER ACTIVE                                12:01:13
F1 0001 1Q34I  RDR WAITING FOR WORK ON FEC                        12:15:31
BG 0001 1Q47I  BG LIBRP 19893 FROM DEADMIN4 , TIME=12:15:31    12:15:31
BG 0000 // JOB LIBRV PROCESS LIBRARIAN COMMANDS                  12:15:31
      DATE 04/02/2002, CLOCK 12/15/31                            12:15:31
BG 0000 EOJ LIBRV      MAX.RETURN CODE=0000                      12:15:32
      DATE 04/02/2002, CLOCK 12/15/32, DURATION 00/00/00        12:15:32
BG 0001 1Q34I  BG WAITING FOR WORK                                12:15:32
F1 0001 1Q34I  LST WAITING FOR WORK ON FEE                       12:15:32
F1 0001 1RA0I  OUTPUT LIBRP 19893 TRANSMITTED TO USILDAVC O-TR1  12:15:38
F1 0001 FROM USILDAVC: SENT FILE 0322 (0000) ON LINK USILDAVC TO  12:15:38
      USILDAVC(DEADMIN4)                                          12:15:38
F6 0006 GFX005I ADMIN02 SESSION TERMINATED                       12:15:48
F6 0006 GFX004I ADMIN02 SESSION ESTABLISHED                      12:15:52

ENTER FAQs COMMAND                                              12:15:58

DEADMIN4 XCM ADMIN02

Console with Task Status and CPU Usage (D S,W)

```

The D S,W command displays the current system console with task status and CPU usage statistics in the upper right-hand corner of the display.

From the FAQs command line, enter **D S,W**. A panel like the following is displayed:

```

N1-0045 GJJ206I JOB SCHEDULER ACTIVE                                CPU:  0.46%
F1 0001 1RA0I  OUTPUT GSLJCLUF 19884 TRANSMITTED TO USILDAVV FOR F6(0) FAQSMAN
O-TR1                                                                83  FAQXASUB
F1 0001 FROM USILDAVV: SENT FILE 0318 (0000) ON LINK USILDAVC TO 83  FAQXCSUB
USILDAVC(DEADMIN4)                                                83  FAQSMAN
F1 0001 1Q34I  RDR WAITING FOR WORK ON FEC                          12:15:31
BG 0001 1Q47I  BG LIBRP 19893 FROM DEADMIN4 , TIME=12:15:31      12:15:31
BG 0000 // JOB LIBRV PROCESS LIBRARIAN COMMANDS                    12:15:31
DATE 04/02/2002, CLOCK 12/15/31                                    12:15:31
BG 0000 EOJ LIBRV MAX.RETURN CODE=0000                             12:15:32
DATE 04/02/2002, CLOCK 12/15/32, DURATION 00/00/00               12:15:32
BG 0001 1Q34I  BG WAITING FOR WORK                                  12:15:32
F1 0001 1Q34I  LST WAITING FOR WORK ON FEE                          12:15:32
F1 0001 1RA0I  OUTPUT LIBRP 19893 TRANSMITTED TO USILDAVV FOR USILDAVC O-TR1
F1 0001 FROM USILDAVV: SENT FILE 0322 (0000) ON LINK USILDAVC TO 12:15:38
USILDAVC(DEADMIN4)                                                12:15:38
F6 0006 GFX005I ADMIN02 SESSION TERMINATED                        12:15:48
F6 0006 GFX004I ADMIN02 SESSION ESTABLISHED                       12:15:52
F6 0006 GFX005I ADMIN02 SESSION TERMINATED                        12:18:24
F6 0006 GFX004I ADMIN02 SESSION ESTABLISHED                       12:18:29
REPLY -> N1-0045
ENTER FAQs COMMAND                                                12:19:07

DEADMIN4 XCM ADMIN02

Console with Automatic Scrolling (D S,J)
    
```

The D S,J command displays the current system console in a split panel with PRTY J statistics at the top and the current system console at the bottom.

From the FAQs command line, enter **D S,J**. A panel like the following is displayed:

```

F1      JOBNAME  DURATION  PHASE  DURATION  CPU SEC.  TASK STATUS  SIO CNT
F1      POWSTART 02.56.52  E25POWER 02.56.51  001.58    82 - W-I/O   8341
F5      FAQSMVMX 02.49.40  FAQSMVMX 02.49.39  001.85    82 - W-I/O    75
F6(0)   FAQSMAN  00.21.13  FAQSMAN  00.21.11  001.39    83 - READY   1924
F3      VTAMSTRT 02.49.58  ISTINCVT 02.49.57  002.23    82 - W-I/O   1944
N1      JCLSCHED 02.49.32  JCLSCHED 02.49.31  003.83    82 - W-I/O   6723

*** SUBTASKS ***
F1      IPW$$LS  82 - W-I/O
F6      DCMOTDRV 82 - W-I/O      DCMOTDRV 82 - W-I/O      FAQSAO  82 - W-I/O
        FAQXASUB 83 - READY      FAQXCSUB 83 - READY      FAQSTSKG 82 - W-I/O
F3      VTAMRP  82 - W-I/O      ISTPDCLU 82 - W-I/O      ISTMTINV 82 - W-I/O
        ISTINMLS 82 - W-I/O      VIMTRACE 82 - W-I/O
N1      PCSSRV  82 - W-I/O      PCSLOG   82 - W-I/O      JCLTASK  82 - W-I/O
CPU :    0.32%      PAGING  IN :    0/SEC      OUT :    0/SEC
REPLY -> N1-0045

-----
N1-0045 GJJ206I JOB SCHEDULER ACTIVE                                12:01:13
F6 0006 GFX004I ADMIN02 SESSION ESTABLISHED                       12:15:52
F6 0006 GFX005I ADMIN02 SESSION TERMINATED                        12:18:24
F6 0006 GFX004I ADMIN02 SESSION ESTABLISHED                       12:18:29
ENTER FAQs COMMAND                                                12:20:53

DEADMIN4 XCM ADMIN02
    
```

## Task 2: Setting Console Timed Redisplay

With Unicenter CA-FAQS ASO, you can set your console display to update automatically at an interval you specify.

TIMED RE-DISPLAY disappears from the bottom of the console display when the maximum idle time, specified in the user's security profile, is exceeded.

### OP (Operator) Command

The OP command puts Unicenter CA-FAQS ASO in operator mode. In operator mode, Unicenter CA-FAQS ASO updates the current console display every  $n$  seconds, where  $n$  is the interval you specify. The default value can be set from the security panels. By default, the console display is updated according to the value set in the REDISPLAY TIME field in security.

From operator mode, you can also enter operator commands directly to the console. You will have the opportunity to do this later in this chapter when you tailor your console display.

### D C Display

The D C console display updates every  $n$  seconds, where  $n$  is the redisplay interval specified in security.

### Entering Timed Redisplay Mode

From the FAQS command line, enter **OP**. Since the default value set in security is four seconds, the panel is automatically updated every four seconds.

For example, if you entered OP mode from the D S,S display, a panel like the following is displayed. The words adjacent to the FAQS command line -- (*OPERATOR MODE*) and (*TIMED RE-DISPLAY*) -- indicate that the console display is in operator mode and timed redisplay mode.

You can enter OPC, OPS, or OPW in the first SCTY panel to make timed redisplay the initial command, as shown on the following panel.

|         | JOBNAME      | PHASE                                               | DURATION            | CPU SEC. | SIO CNT     | TASK STATUS          |
|---------|--------------|-----------------------------------------------------|---------------------|----------|-------------|----------------------|
| F1      | POWSTART     | POWER2H                                             | 20.02.32            | 028.16   | 35847       | 82 82                |
| W2      | FAQSIUX      | FAQSIUX                                             | 20.02.23            | 003.27   | 51          | 82                   |
| W1      | DCMTDRIV     | DCMTDRIV                                            | 20.02.22            | 002.41   | 478         | 82                   |
| F7(0)   | DCMTASK      | FAQSMAN                                             | 20.02.23            | 019.33   | 4503        | 82 82 82 82 83 83 82 |
| F2      | CICS410      | DFHSIP                                              | 19.25.29            | 086.87   | 34986       | 82 82 82 82 82 82 82 |
| F3      | VTAM         | ISTINCVT                                            | 20.02.29            | 013.53   | 2059        | 82 82 82 82 82       |
| FB      | FB           | TSSMNGR                                             | 20.02.53            | 002.19   | 1113        | 82 82 82 82 82 82 82 |
| CPU :   | 0.96%        | PAGING                                              | IN :                | 0/SEC    | OUT :       | 0/SEC                |
| REPLY   | ->           |                                                     |                     |          |             |                      |
| -----   |              |                                                     |                     |          |             |                      |
| F3 0003 | IST1051I     | EVENT CODE = 0202                                   |                     |          |             | 11:18:39             |
| F3 0003 | IST1062I     | EVENT ID = 00000023000100000001000102020F3100000007 |                     |          |             | 11:18:39             |
| F3 0003 | IST314I      | END                                                 |                     |          |             | 11:18:39             |
| F7 0007 | GFX004I      | ADMIN02                                             | SESSION ESTABLISHED |          |             | 11:24:16             |
| F7 0007 | GFX005I      | ADMIN02                                             | SESSION TERMINATED  |          |             | 11:28:18             |
| F7 0007 | GFX004I      | ADMIN02                                             | SESSION ESTABLISHED |          |             | 11:28:20             |
| F7 0007 | GFX005I      | ADMIN02                                             | SESSION TERMINATED  |          |             | 11:28:31             |
| F7 0007 | GFX004I      | ADMIN02                                             | SESSION ESTABLISHED |          |             | 11:28:36             |
| F3 0003 | IST530I      | AM GBIND PENDING FROM A35X03 TO A01X03 FOR A01X03   |                     |          |             | 11:28:39             |
| F3 0003 | IST1051I     | EVENT CODE = 0202                                   |                     |          |             | 11:28:39             |
| F3 0003 | IST1062I     | EVENT ID = 00000023000100000001000102020F3100000007 |                     |          |             | 11:28:39             |
| F3 0003 | IST314I      | END                                                 |                     |          |             | 11:28:39             |
| ENTER   | FAQS COMMAND | (OPERATOR MODE)                                     | (TIMED RE-DISPLAY)  |          |             | 11:29:33             |
|         |              |                                                     |                     | DEADMIN4 | XCM ADMIN02 |                      |

For information about console filtering, see the chapter, "Console Filtering."

## Displaying POWER Queue Information

With Unicenter CA-FAQS ASO, you can access information about the following POWER queues:

- RDR (reader)
- LST (print)
- PUN (punch)
- XMT (transmit)

In this section, you will perform the following tasks:

1. Display print queue members
2. Browse through a print queue member display
3. Display reader queue members
4. Edit a reader queue member

For more information about POWER queue commands, enter **HELP POWER** from the FAQS command line. This takes you to the Unicenter CA-FAQS ASO POWER help facility.

## Task 1: Displaying Print Queue Members

You can use the D LST command to list POWER print queue members.

### Procedure

Enter **D LST**. All of the POWER print queue members are displayed.

```

=====
LIST QUEUE  SUF P D C S  PAGES  CC FORM  DATE    TIME    USER INFO
- JCLSCHED 27334 5 H A      2 1      01/22/02 11:07:24
- NICK     30748 5 H A      4 1      01/25/02 16:37:29 TO NICK2
- NICK     30759 5 H A      2 1      01/25/02 16:46:23 TO NICK2
- NICK     26176 4 H A      5 1      01/14/02 17:36:10 TO NICK2
- NICK     26320 4 H A      4 1      01/18/02 09:51:10 TO NICK2
- CATALR   24051 3 H A      2 1      12/18/02 13:23:33
- CATALR   24053 3 H A      2 1      12/18/02 13:35:04
- EXPRPT   24526 3 H A      5 1      12/29/02 10:23:18
- BP07YB2  26418 3 L A      2 1      01/19/02 11:55:21 TO BOBSM
- MSHP     25651 3 L A      4 1 STD   01/12/02 14:49:48
- MSHP     25653 3 L A      3 1 STD   01/12/02 14:56:50
- MSHP     25657 3 L A      1 1 STD   01/12/02 15:01:56
- MSHP     25659 3 L A      2 1 STD   01/12/02 15:04:13
- JCLSCHED 27336 0 H A      2 1      01/22/02 11:07:42
- AMPRUSER 23275 3 D K      12 2 PETE 12/07/02 12:05:03 HI@MA
- JCLTRACE 26294 4 L K      2 1 SP00 01/16/02 15:18:16
- JCLTRACE 26298 4 L K      2 53 SP00 01/16/02 15:51:14
- LIBRLIST 26288 3 L K 1    4 1      01/16/02 14:56:58 DGARRET
- NICK     26168 0 H Q      4 1      01/14/02 17:19:10 TO NICK2
- XDBGLASM 25717 3 D R      8 1      01/12/02 18:45:43 903242X003CT
- DITTO    22591 3 D S 1    1 1      12/01/02 14:45:19 DGARRET
D=DISPLAY A=ALT H=HLD R=REL L=DELETE - PF3=QUIT PF4=REFRESH PF7=BWD
L=00001

```

### Securing POWER Queue Displays

Recall that you can secure all the POWER queue displays from the security panels. You can also tailor these displays.

## Task 2: Browsing Through a Print Queue Member

From the print queue, you can choose an individual member to display. Once you have displayed a print queue member, you can use a variety of commands to browse through that member, or search for a particular character string.

### Procedure

To become familiar with some of the POWER editing commands available through Unicenter CA-FAQS ASO, browse through a print queue member. Choose a print queue member to display and take the following steps:

1. Type **D** in the input field to the left of the print queue member you want to display and press **ENTER**. The member is displayed.
2. Page through your member display and find a string of data to search for. Use this data to practice on.

3. Return to the top of the display (TOP command), and enter /scandata[/] on the command line. scandata is the string of data you chose in step 2.
4. Set this data as a reference point. Enter SET .11 on the member display command line. This sets a reference point of .11 to the line your scandata data resides on.
5. From the member display command line (====>), enter PAGE LAST. This command will take you to the beginning of the last page in the member.
6. Enter .11. The line where scandata appears becomes the first line in the display.
7. Repeat steps 4-7 if desired, using reference points .22, .33, .44, etc. We're using these reference points for convenience. A period followed by anything will work as a reference point. You could just as easily specify .PSW, .REGS, and .ERRS.

Now, press PF01 (Help) and look through all the available POWER editing commands online. This comprehensive online help is available from any POWER member display. A sample online help panel is shown on the following page.

8. Press PF01 from any POWER queue member display and you will see the Unicenter CA-FAQS ASO POWER help display. Take a moment to page forward to see all the available commands.

```

====>
HPWRMEM:  FAQS POWER HELP DISPLAY

          Backward      Page backward one screen.
          Forward      Page forward one screen.
          TOP           Go to the top of the member.
          BOTtom       Go to the bottom of the member.
          Next nn      Display the member starting nn lines after
                     current line.
          Up nn        Display the member starting nn lines
                     previous to current line.
          (+)(-)nn     Display the member relative from current
                     line.
          LINE nn / :nn Display the member starting at line nn.
          PAGE nn      Display the member starting at PAGE nn
                     (list queue only).
          PAGE (+/-)nn Display page nn pages (after/before)
                     current page, default= +1.
          Q PF         Query the POWER member display PFKEYS.

PF08=FWD PF07=BCK
    
```

Unicenter CA-FAQS ASO allows you easy access to POWER queue displays and provides you with powerful editing tools and a comprehensive online help facility.

Now that you have displayed the POWER print queue and browsed through a print queue member, we'll show you how to display the POWER reader queue.

### Task 3: Displaying Reader Queue Members

You can use the D RDR command to list POWER reader queue members.

#### Procedure

You should be looking at a console display. From the FAQS command line, enter **D RDR**. All of the POWER reader queue members are displayed.

```

====>
READER QUEUE  P D C S  CARDS  DATE  DESTINATION NODE(USER)
- CICSICCT 60277 3 * 2      80  FEC      F=(R000)
- CICSICCF 13804 3 L 2      71 05/16/02 F=(R000)
- VIAMSTRT 56109 3 * 3      14  FEC      F=(SYSA)
- FAQSMAIN 37452 3 * 5      11  FEC      F=(R000)
- FAQSMAIN 37464 3 K 5        9 05/16/02 F=(R000)
- JCLSCHED 59694 3 * 6      11  FEC      F=(R000)
- JCLSCHED 59726 3 K 6        9 05/16/02 F=(R000)
- CONTEST  00078 3 L 7        5 05/16/02
- EXPDCICS 00079 3 L 7      16 05/16/02
- DCMTRV   00080 3 * 9        5  FEC
- AODTCRIT 56405 4 * A      64  FEC      F=(R000)
- DITTO    00081 3 L A        5 05/16/02
- EDPDUMPB 00082 3 L A        9 05/16/02
- AXPI1    00084 3 L A        6 05/16/02
- AXPAP3   00085 3 L A      14 05/16/02
- GSFAQSF  00086 3 L A        6 05/16/02
- TESTKJM  00087 3 L A        5 05/16/02
- CICSA    06469 5 * 4 1    117 01/08/02 F=(R000)
- CICSB    06470 3 X 5        67 01/18/02
- CICSICCF 06471 3 * 6 1    121 08/26/02 F=(R000)

D=DSP A=ALT H=HLD R=REL L=DEL P=PRT - PF3=QUIT PF4=REFRESH PF7=BWD PF8=FWD
L=00001

```

#### Securing POWER Queue Displays

Earlier, we mentioned that you can secure access to various console displays using Unicenter CA-FAQS ASO security. You can do the same thing with POWER queue displays. By altering a user's security definition, you have virtually unlimited ability to allow or restrict access to the POWER queues.

## Task 4: Editing a Reader Queue Member

With Unicenter CA-FAQS ASO, you can edit POWER reader queue members online. You can secure this feature for a particular user definition by turning off the edit feature for the reader queue from the appropriate security panel.

### Procedure

You should be looking at the POWER reader queue you displayed in the previous procedure. (If you have moved from the POWER reader queue display, enter **D RDR** from the FAQS command line in a console display to access the POWER reader queue again.)

To edit a reader queue member, take the following steps:

1. From the POWER reader queue display, type **X** in the input field to the left of a member name. We are going to edit a member called CICSB from the display in the previous task.

**Note:** You are not editing the original member. You are editing a copy loaded into storage.

You see a display like the following:

```

=>                                     MEM= LINE=0
1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75.
* * * * B E G I N F I L E * * * *
* $$ JOB JNM=CICSB,DISP=K,PRI=3,CLASS=5          =====
* $$ LST CLASS=A,RBS=500,DISP=D                =====
// JOB CICSB                                     =====
/* ID STATEMENT SUPPRESSED */                   =====
/*          CICSB  FOR TECHVSE                   =====
// OPTION CQON                                   =====
// OPTION LOG,PARTDUMP                           =====
// LIBDEF *,SEARCH=(DCMLIB.SYSVC,DCMLIB.EVSEB)   =====
* // EXEC GSFPSOFF                               =====
/*                                               =====
// DLBL IJSYSUC,'VSESP.USER.CATALOG',,VSAM       =====
// DLBL DFHRSD,'CICSB.DFHRSD',,VSAM              =====
// DLBL DFHCSD,'CICS.CSD',,VSAM                  =====
// DLBL DFHTEMP,'CICSB.DFHTEMP',,VSAM           =====
// DLBL DFHNTRA,'CICSB.DFHNTRA',,VSAM           =====
// EXEC IDCAMS,SIZE=AUTO                         =====
VFY FILE(DFHRSD)                                =====
VFY FILE(DFHCSD)                                =====
VFY FILE(DFHTEMP)                               =====
VFY FILE(DFHNTRA)                               =====
/*

```

2. Make selected changes to the member by overtyping an existing line, adding new lines, or deleting lines.

The editor is similar to CMS XEDIT. To add a line, tab to the prefix area (=====) and type **a**. Press ENTER, and a line is added. Similarly, to delete a line, tab to the prefix area and type **d**. Press ENTER, and the line you selected is deleted.

For example, add a new *lib.sublib* to the LIBDEF search chain. We added DCMLIB.TEST:

```

=>
1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75.
MEM= LINE=0
* * * * B E G I N F I L E * * * *
* $$ JOB JNM=CICSB,DISP=K,PRI=3,CLASS=5
* $$ LST CLASS=A,RBS=500,DISP=H
// JOB CICSB
/* ID STATEMENT SUPPRESSED */
/*          CICSB FOR TECHVSE
// OPTION CQON
// OPTION LOG,PARTDUMP
// LIBDEF *,SEARCH=(DCMLIB.SYSVC,DCMLIB.EVSEB,DCMLIB.TEST)
* // EXEC GSFPSOFF
/*
// DLBL IJSYSUC,'VSESP.USER.CATALOG',,VSAM
// DLBL DFHRSD,'CICSB.DFHRSD',,VSAM
// DLBL DFHCSD,'CICSB.DFHCSD',,VSAM
// DLBL DFHTEMP,'CICSB.DFHTEMP',,VSAM
// DLBL DFHNTRA,'CICSB.DFHNTRA',,VSAM
// EXEC IDCAMS,SIZE=AUTO
VFY FILE(DFHRSD)
VFY FILE(DFHCSD)
VFY FILE(DFHTEMP)
VFY FILE(DFHNTRA)
/*

```

3. From the command line (====>), enter **SUBMIT**. This command submits the edited member to the POWER reader queue.
4. Press PF3 (QUIT) twice to return to the Unicenter CA-FAQS ASO console display, and enter **D RDR** again. You will see a new entry with the same name but a different job number added to the reader queue member list.

Compare this updated reader queue with the reader queue display on page 17. There are now two CICSB entries. The newer entry, identified by a new job number, is the edited member we submitted to POWER.

```

====>
READER QUEUE  P D C S  CARDS  DATE  DESTINATION NODE(USER)
- CICSI CCT 60277 3 * 2      80  FEC      F=(R000)
- CICSI CCF 13804 3 L 2      71 05/16/02 F=(R000)
- VIAMSTRT 56109 3 * 3      14  FEC      F=(SYSA)
- FAQSMAIN 37452 3 * 5      11  FEC      F=(R000)
- FAQSMAIN 37464 3 K 5       9 05/16/02 F=(R000)
- JCLSCHED 59694 3 * 6      11  FEC      F=(R000)
- JCLSCHED 59726 3 K 6       9 05/16/02 F=(R000)
- CONTEST  00078 3 L 7       5 05/16/02
- EXPDCICS 00079 3 L 7      16 05/16/02
- DCMTDRV  00080 3 * 9       5  FEC
- AODTCRIT 56405 4 * A      64  FEC      F=(R000)
- DITTO    00081 3 L A       5 05/16/02
- EDPDUMPB 00082 3 L A       9 05/16/02
- AXPI1    00084 3 L A       6 05/16/02
- AXPAP3   00085 3 L A      14 05/16/02
- GSFAQSF  00086 3 L A       6 05/16/02
- TESTKJM  00087 3 L A       5 05/16/02
- CICSA    06469 5 * 4 1    117 01/08/02 F=(R000)
- CICSB    29010 3 * 5 1     74 09/25/02
- CICSB    06470 3 X 5      67 01/18/02
- CICSICCF 06471 3 * 6 1    121 08/26/02 F=(R000)

D=DSP A=ALT H=HLD R=REL L=DEL P=PRT - PF3=QUIT PF4=REFRESH PF7=BWD PF8=FWD

```

## Additional POWER Commands

There are many POWER commands you can enter from the POWER queue displays or from the FAQs command line. Many POWER commands have selection criteria to help you narrow the search for queue members. These criteria are the same as standard VSE/POWER commands.

A complete discussion of all the Unicenter CA-FAQS ASO POWER commands is contained in the Unicenter CA-FAQS ASO *Online User Guide*.

### Commands

The following table lists all of the POWER commands available from POWER queue displays. The abbreviated form of the command is contained in parentheses.

**PALTER (A)**

Alters the POWER members in the specified queue that meet the selection criteria.

**PHOLD (H)**

Changes the disposition to H of POWER members in the specified queue that meet the selection criteria.

**PRELEASE (R)**

Releases POWER members in the specified queue that meet the selection criteria.

**PDELETE (L)**

Deletes POWER members in the specified queue that meet the selection criteria.

The following additional POWER commands are available from Unicenter CA-FAQS ASO:

**D ACT,*pid***

Displays an active POWER member for the specified partition ID. This useful command allows you to see the output from jobs as it is written to SYSLST (POWER).

**D A**

Displays a full-panel representation of the POWER D A (Display Active) command.

## Panels and Creating Online Commands

A powerful feature of Unicenter CA-FAQS ASO is the ability to assign an existing console command to a new command which you create. You can create your own command names to help you access system information quickly and easily. In this section, you will perform the following tasks:

1. View FAQS ASO menu options.
2. Create a new console command to access a panel from the FAQS command line.

### Task 1: View Unicenter CA-FAQS ASO Menus

In this section, we will look at some FAQS/ASO panels.

#### Procedure

Unicenter CA-FAQS ASO makes many functions available from easy to use panels. From the command line, enter **MENU**. Something like the following panel is displayed:

```

FAQMENU0.0      ** Unicenter CA-FAQS ASO Online 5.0-0203**   ID=ADMINH.ADMIN2
==>

                *** Unicenter  Main Menu ***

1  HELP          Display help information
2  CA-FAQS ASO   Unicenter CA-FAQS ASO Online menu driver
3  TERMINATE     Terminate FAQS session
4  AO           Automated System Operation Menu Panels
5  Unicenter CA-FAQS PCS      CA-FAQS Production Control System
6  FLEE         FLEE Online Library Maintenance
7  EXPLORE for VSE  EXPLORE for VSE Online
8  EXPLORE for CICS EXPLORE for CICS Online
9  VSAMAID      VSAMAID for VSE Online
A  MASTERCAT    MASTERCAT for VSE Online
B  HYPER-BUF    HYPER-BUF for VSE Online
C  CPR         CICS PRINT FACILITY Menu Panels
E  EXTEND/DASD  EXTEND/DASD for VSE Online
O  EPIC        EPIC For VSE
N  COPYRIGHT    Copyright Notice ....

*** Copyright (c) 2002 Computer Associates Intl., Inc. ***

PF01=Help PF03=Return PF12=Exit

```

Select option 2, to get to the Unicenter CA-FAQS ASO command menu, which follows:

```

FAQMENU2.*      ** Unicenter CA-FAQS ASO Online 5.0-0203**   ID=ADMINH.ADMIN
===>
                ** Unicenter CA-FAQS ASO -- Online Menu **

C - Current Console Display      1 - HELP
L - Display Console Log          3 - Return
P - Power                        4 - Display IBM or CAI Message
J - ASO J                        5 - Display Current Console
G - MAP GETVIS                  6 - Display/Alter Security
M - Extended MAP/DEBUG Menu     7 - DISPLAY Storage
O - MSGOP                       8 - DUMP DASD
K - PFKEY Definition            N - PRTY/PRTY SHARE
R - POWER PFKEY Definition      S - Extended Security menu
V - LVTOC
I - LISTIO
B - LIBLIST
Z - LSERV
Q - QSEEK
F - FTL MON
T - FTL RDL
W - VOLUME
D - DEBUG

PF01=Help PF03=Return PF05=D C PF12=Exit

```

Take some time to explore some of the different options available from this panel. PF12 will take you back to the command line. You can access this panel directly from the command line by entering **MENU 2**. Some of these panels can be accessed directly from the command line by entering the appropriate command. In the next section, we will create a new FAQs command.

## Task 2: Create a New FAQs command

This section will show you how you can create your own console commands to make the online functions easier to use.

The **P** option on the Unicenter CA-FAQS ASO Online Menu can be reached directly from the command line by entering **MENU 2 P**. That may be hard to remember, so we will create a new command that will be easier to remember.

### Procedure

Unicenter CA-FAQS ASO provides an easy-to-use panel to define online commands. To create a new command, take the following steps.

1. From the FAQs command line, enter **AO**. The Unicenter CA-FAQS ASO Main Menu is displayed.

**Note:** To enter AO, you must have authority defined in your Unicenter CA-FAQS ASO security profile to allow access to the AO menu panels.

```

FAOMENU0.*      ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMIN.AMOANN
===>

                *** FAQS ASO -- Main Menu ***
I      Initialization and Configuration

R      REXX      - REXX IMOD member/directory Maintenance
D      LOCK     - Online Lock file display
S      SYSOUT   - Sysout member/directory Maintenance
L      GSFAQSHC - Online Job Generation for Hardcopy File Maintenance

                                GSS Utilities
V      MSHP     - Online MSHP History Display
U      GSPDSU   - Online Job Generation for Partitioned Data Sets
A      PDS      - Display Partitioned Data Set Statistics

PF01=Help PF03=Return PF12=Exit

```

2. From the Unicenter CA-FAQS ASO Main Menu, enter **I**. The Initialization and Configuration menu is displayed:

```

FAOMENU0.I     ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINJ.AMJJSJ
===>

                ** FAQS ASO -- Initialization and Configuration

G      GSFAQS  Startup Definitions
P      Console PFKEY Definitions
M      Message Definitions
C      Command Definitions

R      REXX Imod Initialization and Tailoring
E      Event Definitions
O      FAQS Online Command Definition and Maintenance
A      CICS Auto Print Initialization
B      AutomationPoint Definition and Maintenance

PF01=Help PF03=Return PF12=Exit

```

3. From the Initialization and Configuration menu, enter **O**. The Online Command File Directory List is displayed:

```

FAOMENU0.O     ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMIN.S.RRISSA
===>
** FAQS ASO -- Online Command File Directory List **      Key ==> *      <==

  CPUID:          RECORDS   UPDATE TIMESTAMP          LOAD TIMESTAMP
_ *                10      01/21/02 16.06.43          01/25/02 15.03.55

X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def

```

In this case, \* is the name of the supplied online command file. This online command file will be loaded if there's no match on a CPU-specific online command file.

4. Enter C in the input field to the left of \*. The cursor will automatically tab to another input field. Enter the CPU ID of your VSE machine. To determine this ID, see the ID= value in the upper right-hand corner of the panel. For example, we'll use TECHVSE for our new filename. This will become the online command file filename.

Press ENTER to display the following panel:

```

FAOMENUO.0      ** Unicenter CA-FAQS ASO Online 5.0-0203**   ID=ADMINR.OREY
===>
** FAQS ASO -- Online Command File Directory List **   Key ==> *           <==
CPUID:          RECORDS   UPDATE TIMESTAMP      LOAD TIMESTAMP
_ *             **** COPIED TO TECHVSE ****

```

X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def

5. Press PF4 (Refresh) and a panel like the following is displayed. Notice the new entry for *TECHVSE*.

```

FAOMENUO.4      ** Unicenter CA-FAQS ASO Online 5.0-0203**   ID=ADMINL.GIBBIG
===>
** FAQS ASO -- Online Command File Directory List **   Key ==> *           <==
CPUID:          RECORDS   UPDATE TIMESTAMP      LOAD TIMESTAMP
_ *             10        01/21/02 16.06.43         01/25/02 15.03.55
_ TECHVSE       10        02/01/02 15.19.31         00/00/00 00.00.00

```

X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def

6. Enter X in the input field to the left of *TECHVSE*, the file you just created by copying the supplied online command file called \*. This takes you to the Online Commands Directory List:

```

FAOMENUO.3      ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMIN.D.S222
===>
  ** FAQS ASO -- Online Commands Directory List **      FILE ==> TECHVSE  <==
                                                    Key ==> *      <=
Online Cmd:  Description                               New command
_ C          current file                             PCS C
_ GSFAQSHC   generate gsfaqshc job                    AO L
_ JOBNAME    run IMOD                                 IMOD $JOBNAME @
_ MSHP      Display MSHP Information                  AO V
_ PHASE      Display phase information                 IMOD $PHASE @
_ REPLID    Display REPLID Information                IMOD $REPLID
_ REXX      run IMOD                                 IMOD @ @ @ @ @ @
_ U         Edit a PDS member                          .U=@ @ @
_ X         Edit an IMOD                              .U=@.OAL

X=Edit L=Delete A=Add

PF1=Help PF3=Return PF4=Refresh PF5=IMOD Menu PF6=Load

```

7. Enter **A** in the first online command's input field. The following panel is displayed:

```

FAOMENUO.M      ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMIN.T.MONTM1
===>
  ** FAQS ASO -- Online Command Definition **      FILE ==> TECHVSE  <==

New Command: ==>                                     <== Online command to intercept
Description: ==>                                     <==

Replacement Command to issue:

Display command and description in help screen          YES  NO
                                                         ( ) ( )
Allow arguments to be passed as variables to the new command ( ) ( )
  Also pass COMMAND as the first variable              ( ) ( )
(substitution occurs at '@' symbols)

PF1=Help PF3=Return PF5=Save

```

8. Enter **PWRQ** in the *COMMAND:=>* input field.
9. Tab to the *Description:=>* input field and enter **Display POWER Queues**.
10. Tab to the *New command:* input field and enter **MENU 2 P**.
11. For *Display command and description in help screen*, select **YES**.
12. For *Allow arguments to be passed as variables to the new command*, select **NO**.
13. For *Also pass COMMAND as the first variable*, select **NO**.

Your panel should look like this:

```

FAOMENUO.A          ** Unicenter CA-FAQS ASO Online V5.0.x **  ID=ADMINF.MONTM1
==>
    ** FAQS ASO -- Online Command Definition **      FILE ==> TECHVSE  <==

COMMAND:    ==> PWRQ          <== Online command to intercept
Description: ==> Display POWER Queues                <==

New command:
MENU 2 P

Display command and description in help screen          YES  NO
                                                         ( x ) ( )

Allow arguments to be passed as variables to the new command ( ) ( x )
Also pass COMMAND as the first variable                ( ) ( x )

(substitution occurs at '@' symbols)

PF1=Help PF3=Return PF5=Save

```

14. Press PF5 (Save) to save the new PWRQ online command in the current online command file.
15. Press PF3 (Return) to return to the Online Commands Directory List.
16. Press PF6 (Load) to load the TECHVSE online command file. This makes TECHVSE the current online command file. You will see the following message:
 

```
GFT260I ONLINE COMMAND FILE TECHVSE LOADED
```

 Press PF3 (Return) until you return to a console display.
17. Enter **PWRQ** on the FAQS command line. You will see a display like the following.

```

FAQMENUP.*          ** Unicenter CA-FAQS ASO Online 5.0-0203**      ID=ADMINI.MONTM1
===>

      ** Unicenter CA-FAQS ASO POWER display Menu **

Display queue => LST          RDR LST PUN XMT
Jobname       =>              ABC, *ABC, or A+C
Job number    =>              1-99999 (jobname must be specified)
Class         =>              0-9 and A-Z
Disposition   =>              H,L,D,K,FREE or HOLD
Forms id      =>              forms-id if LST Queue
Priority       =>              1-9
Sysid         =>              1-9

DATE          =>              Creation date mm/dd/yy or dd/mm/yy
DATE operator =>              where operator is < <= = ^= >= >

From User     =>              8 character from user
Target User   =>              8 character target user
From node     =>              8 character from user
Target node   =>              8 character target user

PF01=Help PF03=Return PF05=D C PF11=POWER Commands PF12=Exit

```

On this panel, you can enter various selection criteria for displaying the POWER queues without having to remember the details of the POWER PDISPLAY command. Press enter to see the queue display. PF3 or PF12 will return you to the FAQS command line.

## Opening a Temporary Command Line

You can use the CURSOR command to open a temporary command line anywhere on the console display. This allows you to correct mistakes or use console data in commands without having to retype everything. In this section, you will perform the following tasks:

- Use the CURSOR command to correct a JCL error
- Use the CURSOR MSG command to look up an explanation for a console message

Both the CURSOR and CURSOR MSG commands can be entered on the command line, but they are easier to use if you assign them to PF keys.

### Task 1: Correcting JCL Errors

The following procedure shows how to use the CURSOR command to correct a JCL error without having to retype the entire statement. Follow these steps:

1. Move the cursor to the replid at the start of the line with the error.
2. Press PF13. (By default, PF13 invokes the CURSOR command.)

A greater than symbol (>) appears before the cursor position. An attribute byte appears in the next position, and the rest of the line becomes an input area.

```

F1 0001 1Q41I MISMATCHING PRINTER TYPE FOR TEST 03127 ON 00E,          12:08:45
          SPOOL-TYPE=X'43'(FEE), REAL-TYPE=X'40'(00E)                    12:08:45
F4 0001 1Q34I F4 WAITING FOR WORK                                     12:08:45
F1 0001 1Q34I LST WAITING FOR WORK ON 00E                             12:08:45
C1 0046 It's almost ten past twelve.                                  12:08:45
F1 0001 1Q34I RDR WAITING FOR WORK ON 00C                             12:09:27
F4 0001 1Q47I F4 TEST 03129 FROM VSELVL2H , TIME=12:09:27           12:09:27
F4 0004 TSS7054I Security Bypass Active for Job=NO NAME ACID=*BYPASS* 12:09:27
F4 0004 // JOB TEST                                                  12:09:27
          DATE 06/05/2002, CLOCK 12/09/27                               12:09:27
F4 0004 TSS7000I ADMIN02 Last-Used 05 Jun 02 12:08 System=VSEA Facility=BATCH 12:09:28
F4 0004 TSS7001I Count=01200 Mode=Warn Locktime=None Name=DEADMIN4    12:09:28
F> 0004 / DLBL INFILE, 'TEST.INPUT.FILE', ,VSAM,CAT=VSESPUC          12:09:28
F4-0004 1S01D INVALID STATEMENT.                                     12:09:28
C1 0046 TEST                                                         12:09:28
C1 0046 This is the start of job number 5 since 5 Jun 2002 08:57:03 12:09:28
F7 0007 GFX004I ADMIN02 SESSION ESTABLISHED                          12:09:30
F7 0007 GFX005I ADMIN02 SESSION TERMINATED                           12:09:33
F7 0007 GFX004I ADMIN02 SESSION ESTABLISHED                          12:09:35

ENTER FAQs COMMAND (OPERATOR MODE) (TIMED RE-DISPLAY)              12:10:01
DEADMIN4 XCM ADMIN02

```

3. Use the terminal keys to edit the line to correct the error.
4. Move the cursor to the end of the JCL statement and press Erase EOF to clear the rest of the line.
5. Press enter to submit the corrected JCL statement. The corrected line will be displayed followed by another prompt for input, just as if you had typed the replid and the entire JCL statement. Reply with the replid to continue the job.

```

F4 0001 1Q34I F4 WAITING FOR WORK                                     12:08:45
F1 0001 1Q34I LST WAITING FOR WORK ON 00E                             12:08:45
C1 0046 It's almost ten past twelve.                                  12:08:45
F1 0001 1Q34I RDR WAITING FOR WORK ON 00C                             12:09:27
F4 0001 1Q47I F4 TEST 03129 FROM VSELVL2H , TIME=12:09:27           12:09:27
F4 0004 TSS7054I Security Bypass Active for Job=NO NAME ACID=*BYPASS* 12:09:27
F4 0004 // JOB TEST                                                  12:09:27
          DATE 06/05/2002, CLOCK 12/09/27                               12:09:27
F4 0004 TSS7000I ADMIN02 Last-Used 05 Jun 02 12:08 System=VSEA Facility=BATCH 12:09:28
F4 0004 TSS7001I Count=01200 Mode=Warn Locktime=None Name=RANDY DEADMIN4 12:09:28
12:09:28
F4 0004 / DLBL INFILE, 'TEST.INPUT.FILE', ,VSAM,CAT=VSESPUC          12:09:28
F4 0004 1S01D INVALID STATEMENT.                                     12:09:28
C1 0046 TEST                                                         12:09:28
C1 0046 This is the start of job number 5 since 5 Jun 2002 08:57:03 12:09:28
F7 0007 GFX004I ADMIN02 SESSION ESTABLISHED                          12:09:30
F7 0007 GFX005I ADMIN02 SESSION TERMINATED                           12:09:33
F7 0007 GFX004I ADMIN02 SESSION ESTABLISHED                          12:09:35
0004 // DLBL INFILE, 'TEST.INPUT.FILE', ,VSAM,CAT=VSESPUC          12:13:48
          ADMIN02                                                       12:13:48
F4-0004                                                                12:13:49

ENTER FAQs COMMAND (OPERATOR MODE) (TIMED RE-DISPLAY)              12:14:28
DEADMIN4 XCM ADMIN02

```

## Task 2: Displaying Message Explanations

You can use the `CURSOR MSG` command to easily access message explanations. The `CURSOR MSG` command opens a temporary command line on the console display.

You can use `CURSOR MSG` to access any message in the IBM message file `IESMSGS`. Also, the `CURSOR MSG` command is very useful when you want to display message text for a message that currently appears on your console display.

In the following procedure, we'll display a message explanation for the 0V16I message using the `CURSOR MSG` command. You should select your own message for this demonstration.

Any command prefixed with `CURSOR` can be used to open a temporary command line anywhere on the Unicenter CA-FAQS ASO console-related displays.

To display message explanations, follow these steps:

1. Select a message on the system console. We've selected 0V16I. You may need to page backward on the log (enter `D L`) to find a suitable message.
2. Place the cursor on the first letter/number of the message. In our example, place the cursor on the `0` in 0V16I.
3. Press PF14. PF14 is defined as `CURSOR MSG` in your security definition. A panel like the following is displayed. Notice that a temporary command line has opened at the line beginning with `BG>MSG`:

```

T1 0076 This is the start of job number 11 since 13 Jul 2002 06:07:3513:55:52
BG 0000 EOJ DATASTAT                                     13:55:52
          DATE 07/13/02,CLOCK 13/55/52,DURATION 00/00/00 13:55:52
T1 0076 It's just gone five to two.                       13:55:52
BG 0001 IQ34I  BG WAITING FOR WORK                        13:55:52
F1 0001 IQ34I  LST WAITING FOR WORK ON FEE               13:55:52
U1 0082 looking for aux member EVT:00000074.THU         13:56:16
T1 0046 GJJ842W EVENT DATASTAT IS LATE                 13:56:34
T1 0046 GJJ209I FOLLOWING EVENT COMMANDS BEING SCHEDULED: 13:56:35
T1 0046 DATASTAT                                       DATASTAT 13:56:35
BG> MSG 0V16I  JOB JCLEVENT CANCELED. REQUEST FROM VSE/POWER 13:56:53
BG 0000 // JOB DATASTAT                                 13:56:35
          DATE 07/13/02,CLOCK 13/56/35                  13:56:35
BG 0000 * LOCAL VAR1=&VAR1                              13:56:35
BG 0000 * LOCAL VAR2=&VAR2                              13:56:35
BG 0000 * GLOBL VAR3=C3                                 13:56:35
BG 0000 * GLOBL VAR4=D3                                 13:56:35
T1 0076 This is the start of job number 12 since 13 Jul 2002 06:07:3513:56:35
BG 0000 EOJ DATASTAT                                     13:56:35
          DATE 07/13/02,CLOCK 13/56/35,DURATION 00/00/00 13:56:35
*** MESSAGE REDISPLAY *** 07/13/02 13:55:52
ENTER FAQS COMMAND (OPERATOR MODE)                      6:35:46
D L

```

4. Press ENTER. An explanation of message 0V161 is displayed:

```
*** Unicenter - CA-FAQS ASO MESSAGE DISPLAY ***
0V16I      JOB name CANCELED. REQUEST FROM VSE/POWER

Explanation: Either a PFLUSH command was entered for the
applicable partition or POWER detected an error in the partition.

System Action: The indicated job is canceled.

Programmer Response: None.

Operator Response: None.

ENTER FAQS COMMAND                                13:28:02
MSG 0V16I
PF07=BACKWARD PF08=FORWARD
```

5. To return to the console display, clear the command line with Erase EOF.

## On Your Own

Try some or all of the additional Unicenter CA-FAQS ASO online commands from the

- FAQS command line
- Unicenter CA-FAQS ASO Online menu system

Trial users may want to use the menu system to execute online commands. Enter **MENU** from the FAQS command line in a console display to access menus for all of the commands listed above. Be sure to take advantage of the online help available from every menu panel by pressing PF01 (Help).

## Additional Commands

Also, you can use the following commands to access important system and job information from Unicenter CA-FAQS ASO. Enter **HELP** from the FAQS command line to see a complete list of the commands available from Unicenter CA-FAQS ASO Online.

### DEBUG

Accesses a report of all tasks active in the system. The report provides easy access to all the major partition- and task-related control blocks to assist in problem determination

### DISPLAY

Accesses Virtual storage in any partition or supervisor area. With proper authorization, you can alter storage by overtyping current hexadecimal data.

**LISTIO**

Accesses a list of logical unit assignments. Can be specific partition, device, or logical unit assignments or specific system or programmer logical unit assignments.

**LSERV**

Accesses a list of partition and system standard labels in DLBL/EXTENT format.

**LVTOC**

Accesses the Online VTOC (Volume Table of Contents). Display used and free space extents sorted by file name or starting track address.

**MAP GETVIS**

Accesses the real-time snapshot of the current GETVIS and problem program area for each partition. The whole report shows how GETVIS is allocated.

**PRTY**

Displays and updates the static partition and dynamic class priority sequence and the SHARE values for balanced partitions with Turbo Dispatcher.



# Managing Messages

---

This chapter shows you how to manage your console messages with Unicenter CA-FAQS ASO. With Unicenter CA-FAQS ASO, you can automatically manage console messages. For example, you can direct Unicenter CA-FAQS ASO to suppress unwanted messages, automatically reply to any message that requires a reply.

This chapter covers the following topics:

- Managing actions and action files
- Creating your own initialization files
- Tailoring an action file
- Editing an existing action
- Creating an action
- Replying to a message
- Creating a sample jobstream
- Creating an automated message reply
- Defining console commands

## Managing Actions and Action Files

This section will show you how to create your own action file and edit a sample action. You will also rename the default console command and PF-key files.

### Definitions

An *action* is an automated procedure you can create by using an action definition panel. You can access an action definition panel from the Console Action File Directory List.

For example, you could create an action specifying that Unicenter CA-FAQS ASO should hold and highlight a particular message on the system console. Unicenter CA-FAQS ASO would automatically intercept the specified message, highlight it, and hold it on the console.

An *action file* is a file containing all your user-defined actions. The Console Action File Directory List displays all the action files you have defined. You will access this panel in the procedures that follow.

In this section, you will perform the following tasks:

1. Create your own initialization files
2. Tailor an action file
3. Edit an existing action
4. Create an action

### Task 1: Creating Your Own Initialization Files

All the default initialization files installed with Unicenter CA-FAQS ASO are named *FAQSASO*. To avoid overlaying these files, you should rename them to create your own set of initialization files.

### Procedure

To create your own initialization files, take the following steps:

1. From the FAQs command line, enter **AO**. The Unicenter CA-FAQS ASO Main Menu is displayed.

**Note:** To enter AO, you must have authority defined in your Unicenter CA-FAQS ASO security profile to allow access to the AO menu panels.

```

FAOMENU0.*          ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>

                *** FAQS ASO -- Main Menu ***
I   Initialization and Configuration

R   REXX      - REXX IMOD member/directory Maintenance
D   LOCK     - Online Lock file display
S   SYSOUT   - Sysout member/directory Maintenance
L   GSFAQSHC - Online Job Generation for Hardcopy File Maintenance

                        GSS Utilities
V   MSHP     - Online MSHP History Display
U   GSPDSU   - Online Job Generation for Partitioned Data Sets
A   PDS      - Display Partitioned Data Set Statistics

PF01=Help PF03=Return PF12=Exit
    
```

2. From the Unicenter CA-FAQS ASO Main Menu, enter **I**. This takes you to the Initialization and Configuration menu:

```

FAOMENUI.I          ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>

                ** FAQS ASO -- Initialization and Configuration

G   GSFAQS Startup Definitions
P   Console PFKEY Definitions
M   Message Definitions
C   Command Definitions

R   REXX IMOD Initialization and Tailoring
E   Event Definitions
O   FAQS Online Command Definition and Maintenance
A   CICS Auto Print Initialization
B   Unicenter Automation Point Definition and Maintenance

PF01=Help PF03=Return PF12=Exit
    
```

3. From the Initialization and Configuration menu, enter **G**. The GSFAQS Startup File Directory List is displayed:

```

FAOMENUG.*          ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>
    ** FAQS ASO -- GSFAQS Startup File Directory List **  Key ==> * <==

STARTUP FILE      RECORDS  UPDATE TIMESTAMP      LOAD TIMESTAMP
_ FAQSASO          9       01/20/02 16.13.24     01/21/02 18.49.14

X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add
    
```

- Enter X in the input field to the left of FAQSASO. The Online GSFAQS Startup Definition panel is displayed:

```

FAOME2UG.F      ** Unicenter CA-FAQS ASO Online 5.0-0203**      ID=ADMINH.ADMIN2
====>
**Unicenter CA-FAQS ASO--Online GSFAQS Startup Definition**FILE==> FAQSASO <==

Enable AR Hook          ( X )      Auto pause on abend      ( _ )
Enable SMSG Hook        ( X )
Allow SMSG OP commands  ( X )
Enable Console Management ( X )
Automation buffers (0-999) ( 2 )
                                Edit Dir
Pfkey file ==>          <=== ( _ )( _ )
Message file ==> FAQSASO <=== ( _ )( _ )
Command file ==> FAQSASO <=== ( _ )( _ )

Eoj Console Summary BG F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB AR
                   X _ A L _ _ _ _ _ _ _ _ X
                   C D E G H I J K L M N O P Q R S T U V W X Y Z

                   Place (X) all jobs (L) option log (A) forabend jobs

Sysout Archival      BG F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB AR
                   C D E G H I J K L M N O P Q R S T U V W X Y Z

                   Place (X) all jobs (L) option log (A) forabend jobs

PF1=Field Help PF3=Return PF5=Update PF8=Forward
    
```

- Return to the Startup File Directory List.

```

FAOMENUG.*      ** Unicenter CA-FAQS ASO Online 5.0-0203**      ID=ADMINH.ADMIN2
====>
** FAQS ASO -- GSFAQS Startup File Directory List ** Key ==> * <==

STARTUP FILE      RECORDS  UPDATE TIMESTAMP      LOAD TIMESTAMP
_ FAQSASO          9        01/20/02 16.13.24      01/21/02 18.49.14
X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def
    
```

- Enter C in the input field to the left of FAQSASO. Type the new filename (we will use TECHVSE), press Erase EOF, and then press ENTER.
- Press PF4 (Refresh) to refresh the display. You should see a display like the following:

```

FAOMENUG.*      ** Unicenter CA-FAQS ASO Online 5.0-0203**      ID=ADMINH.ADMIN2
====>
** FAQS ASO -- GSFAQS Startup File Directory List ** Key ==> * <==

STARTUP FILE      RECORDS  UPDATE TIMESTAMP      LOAD TIMESTAMP
_ FAQSASO          9        02/18/02 14.24.48      02/22/02 09.02.14
_ TECHVSE          9        02/22/02 09.52.39      00/00/00 00.00.00
X=Edit L=Delete R=Rename C=Copy

PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def
    
```

- Repeat steps 5-7 for the FAQSASO message and command files.

9. Return to the Online GSFAQS Startup Definition panel, type an X to the left of the TECHVSE entry and press enter. From this panel, overtype the message, and command filenames with TECHVSE.
10. Overtyping FAQSASO in the FILE==> field with TECHVSE. The resulting panel looks like the following:

```

FAOME2UG.F      ** Unicenter CA-FAQS ASO Online 5.0-0203**      ID=VSELVL2H.ADMIN02
==>
**Unicenter CA-FAQS ASO--Online GSFAQS Startup Definition**FILE ==> TECHVSE <==

Enable AR Hook          ( X )      Auto pause on abend      ( _ )
Enable SMSG Hook        ( X )
Allow SMSG OP commands  ( X )
Enable Console Management ( X )
Automation buffers (0-999) ( 2 )
                                Edit Dir
Pfkey file ==>          <=== ( _ )( _ )
Message file ==> FAQSASO <=== ( _ )( _ )
Command file ==> FAQSASO <=== ( _ )( _ )

Eoj Console Summary BG F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB AR
                   X _ A L _ _ _ _ _ _ _ _ _ _ X
                   C D E G H I J K L M N O P Q R S T U V W X Y Z
                   Place (X) _ all _ jobs _ (L) _ option _ log _ (A) _ for _ abend _ jobs

Sysout Archival      BG F1 F2 F3 F4 F5 F6 F7 F8 F9 FA FB AR
                   C D E G H I J K L M N O P Q R S T U V W X Y Z
                   Place (X) _ all _ jobs _ (L) _ option _ log _ (A) _ for _ abend _ jobs

PF1=Field Help PF3=Return PF5=Update PF8=Forward
    
```

11. Press PF5 (Update) to update your changes.
12. Press PF3 (Return) to return to the Initialization and Configuration menu.
13. Since you created a new STARTUP file, be sure to update your startup JCL so that GSFAQS loads the new file you created instead of FAQSASO.

## Task 2: Tailoring an Action File

The message file you just renamed contains a set of *actions*. From now on, we will refer to this file as an *action file*. In the procedure below, we will have you access the action file you copied in the previous task and tailor it by deleting an action.

### Procedure

To tailor an action file, take the following steps:

1. From the Initialization and Configuration menu, enter **M**. This takes you to the Console Action File Directory List:

```

FAOMENUM.*          ** Unicenter CA-FAQS ASO Online 5.0-0203 ** ID=ADMINH.ADMIN2
===>
  ** FAQS ASO -- Console Action File Directory List ** Key ==> * <==

ACTION FILE      RECORDS   UPDATE TIMESTAMP      LOAD TIMESTAMP
_  FAQSASO        14      02/16/02 13.28.55     02/16/02 13.08.10
_  TECHVSE        14      02/18/02 09.05.21     02/18/02 09.05.21

X=Edit L=Delete R=Rename C=Copy A=Add P=Print
PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current Def
    
```

2. Type **X** in the input field to the left of **TECHVSE** and press **ENTER**. The Console Action Directory List is displayed:

```

FAOMENUM.F          ** Unicenter CA-FAQS ASO Online 5.0-0203** ID=VSELVL2H.ADMIN02
===>
**Unicenter CA-FAQS ASO--Console Action Directory List** FILE ==> TECHVSE <==
                                     Key ==> * <=

Action Name      Function:
_  EOJ            High,IMOD M=(EOJ)
_  HIIBM         High M=(0<==<)
_  JOB           High,IMOD M=(// JOB)
_  LIBR-SHAREDV  Reply M=(L2828)
_  POWERFORMS    CMD M=(1Q40A)
_  REPLYDEL      Reply M=(4444D) M2^(PROD)
_  REPLYDL1      Reply M=(4444D) M2^(PROD)
_  SYSOUTMSG     IMOD M=(GFF390)
_  SYSOUTMSG2    CMD M=(GFF390) M2=(09=)
_  IST105I       CMD M=(IST105I)
_  IST1133I      CMD M=(IST1133I)
_  1S78I        CMD M=(1S78I)

X=Edit L=Delete A=add
PF1=Help PF3=Return PF4=Refresh PF5=PRINT PF6=Load File
    
```

3. Tab to the input field to the left of LIBR-SHAREDV. Type **L** and press ENTER to delete this action. LIBR-SHAREDV is only a simulated reply to a message; it does no real work for your system. (Feel free to enter **X** and browse through the action before you delete it!)
4. Press PF4 (Refresh) to refresh the display. Notice that LIBR-SHAREDV is no longer listed in the action list.
5. Press PF6 (Load File) to load TECHVSE into the SVA. This makes TECHVSE the current action file.

### Task 3: Editing an Existing Action

The EOJ action is designed to highlight and trigger the \$EOJ IMOD. This IMOD was loaded into your system when you installed Unicenter CA-FAQS ASO. Every time a job goes to EOJ, the \$EOJ IMOD echoes the time. The EOJ action highlights the EOJ *jobname* MAX RETURN CODE=xxxx message written to the system console to make it more visible.

For your trial, we will have you disable executing this IMOD. Don't worry about changing the action. It's easy to restore the action to its original specifications.

#### Procedure

To edit the EOJ action, take the following steps:

1. From the Console Action Directory List, enter **X** in the input field next to EOJ. The following panel is displayed:

```

FAOMENUM.3      ** Unicenter CA-FAQS ASO Online 5.0-0203 **  ID=ADMINH.ADMIN2
===>
                                                    File: TECHVSE

Console Action Definition
Action Name ==> EOJ          Eoj cards
Message = ==> EOJ          Scan ( 01 , 01 )      MTWRFSS
Message2 = ==>             Scan (      ,      )
Occurrences ==>           Phase ==>
Frequency ==> ( 00 : 00 : 00 ) Jobname ==>
Time Range ==> ( 00 : 00 , 00 : 00 ) CPUID ==> *
_ Pid =

ACTION Enabled
Highlight ( X )          Disable Generics ( _ )
Hold ( )                Simulate Action ( _ )
Unhold ( )              Stop After Match ( _ )
Suppress ( )            Old Style Args ( _ )
Delete ( )              Command Delay ( 00 : 00 ) MM:SS
_ REXX IMOD ( X ) ==> $EOJ
_ Reply ( ) ==>
_ Command ( ) ==>
_ Mask ( ) Mask=        Length=      Offset=
_ Notify ( ) Type=      User=        Node=          RSCS=

PF1=Field Help PF3=Return PF4=MSG exp PF5=Save PF6=Easy Scan PF9=MSG lookup
    
```

2. Delete the X in the REXX IMOD field. This means that when EOJ appears on the console, the \$EOJ IMOD will *not* trigger.
3. Press PF5 (Save) to save the updated file.
4. Press PF3 (Return) to return to the Console Action Directory List.
5. Repeat steps 1-4 to disable the JOB action. The JOB action runs an IMOD, \$JOB. \$JOB is a sample of using REXX global variables.
6. Press PF6 (Load File) to load TECHVSE into the SVA. Make this updated file the current action file so that the JOB and EOJ actions will be disabled.

### Task 4: Creating an Action

In this section, you will learn how to create an action to highlight and hold the OS and OV messages.

#### Procedure

You should be looking at the Console Action Directory List after loading TECHVSE into the SVA. Take the following steps to create your own action:

1. In the input field next to EOJ, enter A to add a new action. The following panel is displayed:

```

FAOMENUM.3      ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=DEVTSYS3.AMORRIS
====>

                                     File: TECHVSE
                          Console Action Definition
Action Name ==>
Message      = ==>
Message2     = ==>
Occurrences  ==>
Frequency    ==> ( 00 : 00 : 00 )
Time Range   ==> ( 00 : 00 , 00 : 00 )
_ Pid        =

ACTION      Enabled
Highlight   ( )
Hold        ( )
Unhold     ( )
Suppress    ( )
Delete      ( )
_ REXX IMOD ( ) ==>
_ Reply     ( ) ==>
_ Command   ( ) ==>
_ Mask      ( ) Mask=
_ Notify    ( ) Type=

Scan ( 01 , 01 )      MTWRFSS
Scan (      ,      )
Phase ==>
Jobname ==>
CPUID ==> *

Disable Generics ( _ )
Simulate Action ( _ )
Stop After Match ( _ )
Old Style Args ( _ )
Command Delay ( 00 : 00 ) MM:SS

Length=      Offset=
User=        Node=      RSCS=

PF1=Field Help PF3=Return PF4=MSG exp PF5=Save PF6=Easy Scan PF9=MSG lookup
    
```

2. Enter the following:

- **0SMSG** in the Action Name ==> field
- **ABEND messages** in the description field across from the Action Name ==> field
- **0S==<** in the Message ==> field
- **X** in the Highlight Enabled field

Your display should look like the following:

```

FAOMENUM.3      ** Unicenter CA-FAQS ASO Online 5.0-0203 ** ID=DEVTSYS3.AMORRIS
====>
                                                    File: TECHVSE

Console Action Definition
Action Name ==> 0SMSG      ABEND messages
Message = ==> OS==<      Scan ( 01 , 01 )      MTWRFSS
Message2 = ==>           Scan ( , )
Occurrences ==>         Phase ==>
Frequency ==> ( 00 : 00 : 00 ) Jobname ==>
Time Range ==> ( 00 : 00 , 00 : 00 ) CPUID ==> *
_ Pid =

ACTION Enabled
Highlight ( X )
Hold ( )
Unhold ( )
Suppress ( )
Delete ( )
_ REXX IMOD ( ) ==>
_ Reply ( ) ==>
_ Command ( ) ==>
_ Mask ( ) Mask=
_ Notify ( ) Type=

Disable Generics ( _ )
Simulate Action ( _ )
Stop After Match ( _ )
Old Style Args ( _ )
Command Delay ( 00 : 00 ) MM:SS

Length=      Offset=
User=        Node=
RSCS=

PF1=Field Help PF3=Return PF4=MSG exp PF5=Save PF6=Easy Scan PF9=MSG lookup
    
```

3. Press PF5 (Save) to save the new action, 0SMSG. You will see the following message:

```
GAO664 ACTION 0SMSG ADDED.
```

4. Overtyping the action name 0SMSG with **0VMSG**. Overtyping the message OS==< with **0V==<**.

5. Press PF5 (Save) to save the new action, 0VMSG. You will see the following message:

```
GAO664 ACTION 0VMSG ADDED.
```

6. Press PF4 (MSG exp) to see an English explanation for the new message actions.

7. Press PF3 (Return) to return to the Console Action Directory List.

8. Press PF6 (Load) to load the current message action file.

9. Press PF3 (Return) until you return to a console display. Watch the console for messages beginning with 0S and 0V. Notice the difference.

## Replying To a Message

We will develop a scenario in the procedures below to demonstrate the power of Unicenter CA-FAQS ASO's automated message reply feature. The jobstream you will run generates a message, which Unicenter CA-FAQS ASO will reply to automatically.

In this section, you will perform the following tasks:

1. Create a sample jobstream
2. Create an automated message reply

### Task 1: Creating a Sample Jobstream

You can use Unicenter CA-FAQS ASO to reply automatically to a console message. This feature can eliminate wasted time replying to nuisance messages, while ensuring that important messages get a timely reply.

Sample Jobstream

Create the sample jobstream below:

```
* $$ JOB JNM=REXXBAT,CLASS=0,DISP=K,LDEST=( ,user)
* $$ LST CLASS=A
// JOB REXXBAT (user,ECHO=YES)
// EXEC REXXBAT
$READCON
/*
/&
* $$ EOJ REXXBAT
```

After we have shown you how to define an automated message reply action, you will be asked to submit this batch job and watch the console display.

You created the sample jobstream above to run after you create an action to automatically reply to a message.

## Task 2: Creating an Automated Message Reply

In the procedure below, you will create an action to reply automatically to the message produced by the jobstream created in the previous section.

### Procedure

You should now be looking at a console display. To create a sample automated message reply action, follow these steps:

1. From the current console, you can use fast-path commands to enter the AO menu system. Recall that, previously, you went from panel to panel entering single commands. To use a fast-path command, chain together the panel options with periods.

Now enter the fast-path command, **AO I.M**, to access the Console Action File Directory List.

2. From the Console Action File Directory List, enter **X** next to TECHVSE (or whatever filename is shown). The Console Action Directory List is displayed.
3. Enter **A** in the input field next to EOJ to add a new action. A blank action definition panel is displayed.

4. Enter:

- **TEST** in the *Action Name ==>* field.
- **Enter** in the *Message ==>* field. This field is case-sensitive.
- **data**, in the *Message2 ==>* field. This field is case-sensitive.
- **01 , 01** in the *Scan* field.
- **12 , 01** in the *Scan* field.
- **X** in the *Reply Enabled* field.
- **ANYDATA** in the input field to the right of *Reply*.

**Note:** If you are running CICS and you have uppercase translation turned on, CICS will force all of this data into uppercase.

Your panel should look like the following:

```

FAOMENUM.3      ** Unicenter CA-FAQS ASO Online 5.0-0203 ** ID=DEVTSYS3.AMORRIS
===>
                                                    File: TECHVSE

      Console Action Definition
Action Name ==> TEST          test console message actions_____
Message   = ==> Enter          Lowercase Scan ( 01 , 01 )      MIWRFSS
Message2  = ==> data,          Lowercase Scan ( 12 , 01 )      _____
Occurrences ==>                Phase ==>
Frequency ==> ( 00 : 00 : 00 )   Jobname ==>
Time Range ==> ( 00 : 00 , 00 : 00 ) CPUID ==> *
_ Pid     =

ACTION      Enabled
Highlight   ( )
Hold        ( )
Unhold      ( )
Suppress    ( )
Delete      ( )
_ REXX IMOD ( ) ==>
_ Reply     ( X ) ==> ANYDATA
_ Command   ( ) ==>
_ Mask      ( ) Mask=          Length=          Offset=
_ Notify    ( ) Type=          User=          Node=          RSCS=

Disable Generics ( _ )
Simulate Action ( _ )
Stop After Match ( _ )
Old Style Args ( _ )
Command Delay ( 00 : 00 ) MM:SS

PF1=Field Help PF3=Return PF4=MSG exp PF5=Save PF6=Easy Scan PF9=MSG lookup
    
```

5. Press PF5 (Save) to save your new action.
6. Press PF3 (Return) to return to the Console Action Directory List for TECHVSE.
7. Press PF6 (Load File) to reload TECHVSE into the SVA with the new action.
8. Submit the jobstream in the previous task to your VSE machine and watch the console display. You should see a display like the following:

```

F7 0109 GAO648I ACTION FILE TECHVSE LOADED 16:04:02
F7 0007 GFX005I ADMIN02 SESSION TERMINATED 16:04:06
F1 0001 1Q34I RDR WAITING FOR WORK ON 00C 16:04:11
BG 0001 1Q47I BG REXX 59176 FROM VSELVL2H , TIME=16:04:11 16:04:11
BG 0000 TSS7054I Security Bypass Active for Job=NO NAME ACID=*BYPASS* 16:04:11
BG 0000 // JOB REXXBAT 16:04:11
DATE 04/02/2002, CLOCK 16/04/11 16:04:11
BG 0000 TSS7000I ADMIN02 Last-Used 02 Apr 02 16:03 System=VSEA Facility=BATCH
BG 0000 TSS7001I Count=07495 Mode=Warn Locktime=None Name=DEADMIN4 16:04:11
F7 0102 REXX 16:04:11
F7 0102 This is the start of job number 28 since 1 Apr 2002 15:27:12 16:04:11
BG 0000 READCONS - Tuesday - 2 Apr 2002 - 16:04:11 16:04:11
BG-0000 Enter some data, it will be echoed to the console 16:04:11
0000 ANYDATA 16:04:11
BG 0000 Data entered was - ANYDATA 16:04:11
BG 0000 EOJ REXXBAT MAX.RETURN CODE=0000 16:04:11
DATE 04/02/2002, CLOCK 16/04/11, DURATION 00/00/00 16:04:11
F1 0001 1Q41I MISMATCHING PRINTER TYPE FOR REXX 59176 ON 00E, 16:04:11
SPOOL-TYPE=X'43'(FEE), REAL-TYPE=X'40'(00E) 16:04:11
BG 0001 1Q34I BG WAITING FOR WORK 16:04:11
F1 0001 1Q34I LST WAITING FOR WORK ON 00E 16:04:11
F7 0102 It's almost five past four. 16:04:11
F7 0007 GFX004I ADMIN02 SESSION ESTABLISHED 16:04:17

ENTER FAQS COMMAND 16:04:17

DEADMIN4 XCM ADMIN02
    
```

Unicenter CA-FAQS ASO automatically issues the reply, *0000 ANYDATA*. Unicenter CA-FAQS ASO automatically generates a four-character reply ID for easy detection.

## Defining Console Commands

You can define your own console commands using Unicenter CA-FAQS ASO. This powerful Unicenter CA-FAQS ASO feature allows you to create simple commands to replace potentially complicated command syntax. You can also give the command a name with far greater mnemonic value than the command it is supposed to replace.

In this section, you will define a console command called SHUTCICS. You will use this console command in a demonstration in the chapter, “[Console Filtering](#).”

### Defining a Console Command, SHUTCICS

In the procedure that follows, we will show you how to define a console command that you will use to trigger an IMOD in the chapter, “[Console Filtering](#).”

#### Procedure

To define a console command, take the following steps:

1. From the console display, enter the fast-path command, **AO I.C.** This takes you to the Console Command File Directory List:

```

FAOMENUC.*          ** Unicenter CA-FAQS ASO Online 5.0-0203 ** ID=ADMINH.ADMIN2
===>
** FAQS ASO -- Console Command File Directory List **      Key ==> *      <==

  COMMAND FILE      RECORDS  UPDATE TIMESTAMP      LOAD TIMESTAMP
_  FAQSASO           50      02/08/02 10.39.20      02/24/02 17.52.14
_  TECHVSE           51      02/24/02 17.44.31      02/24/02 17.44.36

X=Edit L=Delete R=Rename C=Copy A=Add
PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def

```

- From the Console Command File Directory List, enter **X** in the input field to the left of TECHVSE. The Console Commands Directory List is displayed:

```

FAOMENUC.F      ** Unicenter CA-FAQS ASO Online 5.0-0203 ** ID=ADMINH.ADMIN2
===>
** FAQS ASO -- Console Commands Directory List ** FILE ==> TECHVSE <==
Key ==> * <==
Console Command LOG Function: GOAL IMOD or Command
- $ARG          N IMOD=$ARG
- $BEEPER       N IMOD=$BEEPER
- $GETVIS       N IMOD=$GETVIS
- $JOBACCT      N IMOD=$JOBACCT
- $MSG          N IMOD=$MSG
- $REPLID       N IMOD=$REPLID
- $STATUS       N IMOD=$STATUS
- $VTAM         N IMOD=$VTAM
- >            N IMOD=$TO
- ADDRESS       N IMOD=$ADDRESS
- BEEPER        N IMOD=$BEEPASO
- BG            N IMOD=$REPLY
- CICS          N IMOD=$CICSREP
- CONSOLE       N IMOD=$CONSOLE
- CP            N IMOD=$CP
- CPR           N IMOD=$CPRCMD
X=Edit L=Delete A=Add

PF1=Help PF3=Return PF4=Refresh PF5=IMOD Menu PF6=Load PF8=Fwd
    
```

- Enter **A** (Add) next to any filename. The Console Command Definition panel is displayed:

```

FAOMENUC.M      ** Unicenter CA-FAQS ASO Online 5.0-0203 ** ID=ADMINH.ADMIN2
===>
** FAQS ASO -- Console Command Definition ** FILE ==> TECHVSE <==
COMMAND ==> <== Console command to intercept

LOG Command ( ) ( )
YES NO
Run an REXX IMOD for the COMMAND
EDIT
- IMOD ==> <== REXX EXEC to Execute
  Args ==> Old Style Args

Replace COMMAND with the CMD below
==> <==

PF1=Help PF3=Return PF5=Save PF6=IMOD DIRECTORY
    
```

4 Enter the following:

- **SHUTCICS** in the *COMMAND* ==> field
- **X** in the *NO* field for *LOG command*
- **SHUTCICS** in the *IMOD* ==> field

Your panel should look like the following:

```

FAOMENUC.M          ** Unicenter CA-FAQS ASO Online V5.0.x **  ID=ADMINH.ADMIN2
====>
      ** FAQS ASO -- Console Command Definition **      FILE ==> TECHVSE  <==

COMMAND  ==> SHUTCICS          <== Console command to intercept
                YES   NO
LOG Command (   ) ( X )

                Run an REXX IMOD for the COMMAND
EDIT
_ IMOD ==> SHUTCICS          <==      REXX EXEC to Execute
  Args ==>                   Old Style Args

                Replace COMMAND with the CMD below
==>                                     <==

PF1=Help PF3=Return PF5=Save PF6=IMOD DIRECTORY

```

5. Press PF5 to save your work, and press PF3 (Return) until you return to a console display. Then, press PF6 to load the file on the next screen.



# Creating and Executing IMODS

---

This chapter contains a sample IMOD, instructions for executing that IMOD from Unicenter CA-FAQS ASO, and instructions for creating and triggering an IMOD. While REXX is easy to use, programming in REXX requires a far better understanding of the REXX language than we can present here. This chapter discusses the following topics:

- What Is REXX?
- Displaying and executing a sample IMOD, \$JOBACCT:
  - Accessing \$JOBACCT
  - Examining \$JOBACCT
  - Executing \$JOBACCT from an online command
  - Executing \$JOBACCT from a console command
- Creating your own IMOD:
  - Creating your own IMOD, SHUTCICS
  - Executing SHUTCICS

## What Is REXX?

REXX is a structured programming language that allows you to write programs easily and efficiently.

For an introduction to the REXX language, see M.F. Cowlishaw, *The REXX Language: A Practical Approach to Programming*, Second Edition (Prentice-Hall, 1990).

### Computer Associates REXX

CA REXX is the Computer Associates implementation of the REXX language. Computer Associates treats REXX as an OAL (Operations Automation Language). In other words, the Computer Associates version of REXX is designed to help you automate your VSE data center quickly and efficiently.

For a complete discussion of CA REXX, see the CA-GSS for VSE *REXX User Guide*.

## What is an IMOD?

IMOD means “Intelligent Module.” The concept behind the IMOD is: You can use CA REXX to create a procedure that executes automatically under conditions you specify. This kind of REXX procedure is an IMOD.

Various CA-supplied IMODs are shipped with the Unicenter CA-FAQS ASO tape. Once you have initialized Unicenter CA-FAQS ASO, you can execute any of these IMODs, or you can use the Unicenter CA-FAQS ASO IMOD editing facility to create your own.

## Examples

For example, some of the IMODs shipped with Unicenter CA-FAQS ASO include:

- \$CP, which issues CP commands and returns the data back to the console
- \$CICSREP, which replies to CICS by partition or jobname
- \$CYCLE, which cycles terminals in CICS and VTAM
- \$GETVIS, which displays partition GETVIS-related information

## IMOD Programming Guidelines

The only restrictions or limits to creating or executing IMODs are the restrictions or limits imposed by the REXX language and Computer Associates. For the purposes of your trial, these are unimportant. However, if you desire more information about REXX programming guidelines or CA's implementation of REXX, see the CA-GSS for VSE *REXX User's Guide*.

## Displaying and Executing a Sample IMOD

In this section, you will access and execute a sample IMOD, \$JOBACCT.

In this section, you will perform the following tasks:

1. Display the \$JOBACCT IMOD
2. Examine the \$JOBACCT IMOD
3. Execute the \$JOBACCT IMOD from an online command
4. Execute the \$JOBACCT IMOD from a console command

## Task 1: Displaying \$JOBACCT

You can access IMODs in the following two ways:

- From the FAQs command line, if you know the name of the IMOD you want to edit or execute
- From the REXX IMOD File Directory List

### Command-Line Access

From the FAQs command line, enter

```
.U=imodname.OAL PDS=MON
```

For example, to access an IMOD called \$JOBACCT, you'd enter

```
.U=$JOBACCT.OAL PDS=MON
```

Unicenter CA-FAQS ASO IMODs have the .OAL file extension. OAL stands for *Operations Automation Language*. All Unicenter CA-FAQS ASO IMODs are contained in the SYS\$MON PDS.

### Menu Access

To access IMODs from the REXX IMOD File Directory List, follow these steps:

1. From the FAQs command line, enter **AO**. The Unicenter CA-FAQS ASO Main Menu is displayed:

```

FAOMENU0.*          ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>

                *** FAQS ASO -- Main Menu ***
I      Initialization and Configuration

R      REXX      - REXX IMOD member/directory Maintenance
D      LOCK     - Online Lock file display
S      SYSOUT   - Sysout member/directory Maintenance
L      GSFAQSHC - Online Job Generation for Hardcopy File Maintenance

                GSS Utilities
V      MSHP     - Online MSHP History Display
U      GSPDSU   - Online Job Generation for Partitioned Data Sets
A      PDS      - Display Partitioned Data Set Statistics

PF01=Help PF03=Return PF12=Exit
    
```

2. From the Unicenter CA-FAQS ASO Main Menu, enter **R** to access a list of IMODs. The REXX IMOD File Directory List is displayed:

```

FAOMENUR.0      ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>
** FAQS ASO -- REXX IMOD File Directory List **           Key ==> *      <==
                                                         PDS ==> MON    <==

  IMOD NAME      RECORDS  UPDATE TIMESTAMP      COMPILE TIMESTAMP  Compiled
- $LVARGT        44      12/31/02 11.15.29     12/31/02 11.15.31  *
- $LVARSV        67      12/28/02 09.46.33     12/28/02 09.46.33  *
- $AAALC         100     07/06/02 14.04.01     07/06/02 14.04.01  *
- $ADDRESS       26      10/27/02 12.39.05     10/27/02 12.39.05  *
- $ADPSCR        77      04/03/02 15.39.04     04/03/02 15.39.05  *
- $ANY           16      03/05/02 15.41.12     06/12/02 10.31.23  *
- $AOSCHED       23      03/26/02 16.02.59     03/26/02 16.03.02  *
- $APOWER       118     03/11/02 19.01.31     03/11/02 19.01.32  *
- $ARG           40      10/27/02 12.38.49     10/27/02 12.38.50  *
- $ARGS          47      04/07/02 13.59.17     04/07/02 13.59.18  *
- $BEEPASO      128     10/27/02 12.38.51     10/27/02 12.38.51  *
- $BEEPDBGT     244     10/27/02 12.38.55     10/27/02 12.38.55  *
- $BEEPPRR       58      10/27/02 12.38.52     10/27/02 12.38.53  *
E=Execute X=Edit L=Delete R=Rename C=Copy P=Print

PF1=Help PF3=Return PF4=Refresh PF5=Add PF8=Fwd
    
```

- 3 Access an IMOD called \$JOBACCT. We will examine this IMOD in the next section. Since you know the name of the IMOD, you can either:
  - Press PF8 (Fwd) to get to it
  - Enter \$JOBACCT in the KEY==> field

**Note:** You can also use a wildcard character in the KEY==> field. For example, the default display is KEY==>\*, so all the CA-supplied IMODs are displayed. You can use the \* wildcard character to selectively display a subset of all the IMODs from the REXX IMOD File Directory List.

For example, if you knew that you wanted to edit an IMOD that contains *JOB* in the name, you could specify \***JOB**\* in the KEY==> field. This would display only the IMODs containing the three letters *JOB*.

- 4 Enter **X** in the input field (    ) next to \$JOBACCT. The text of the IMOD is displayed. In the next section, we will discuss the text of this IMOD.

## Task 2: Examining \$JOBACCT

Let's take a look at \$JOBACCT. As with most IMODs, \$JOBACCT consists of a number of REXX instructions, all designed to make programming easier and less time-consuming.

However, it also contains extensive comments detailing the environment-dependent command formats for executing the IMOD, as well as information about what each instruction does.

While adding comments to an IMOD is strictly optional, it is always good practice to include any information that a user may need to execute the IMOD.

The following sections explain the REXX instructions that make up \$JOBACCT, and discuss its command format.

```

/*****/ =====
/* $JOBACCT REXX PROCEDURE: CREATED 10/16/02 BY BOB SMITH */ =====
/* updated 02/20/02 support new asoenv call */ =====
/* */ =====
/* This IMOD is designed to issue and display job accounting info. */ =====
/* Unicenter CA-FAQS ASO is shipped with a A/R command "$JOBACCT" in */ =====
/* the FAQSASO command file. To use this exec type $JOBACCT on */ =====
/* the system or in op mode from a FAQS online interface or issue */ =====
/* an SMSG from CMS to display the JOBACCT information from the */ =====
/* target VSE */ =====
/* */ =====
/* VSE */ =====
/* FORMAT: $JOBACCT pid */ =====
/* */ =====
/* CMS */ =====
/* FORMAT: SMSG machine ASO $JOBACCT pid */ =====
/* ASO machine JOBACCT pid */ =====
/* */ =====
/* machine is the VSE machine name */ =====
/* ASO is an identifier for Unicenter CA-FAQS ASO to */ =====
/* trigger and IMOD the next blank delimited */ =====
/* parm */ =====
/* $JOBACCT The IMOD to executed. */ =====
/* pid command to display jobacct information */ =====
/*****/ =====

```

Text and Explanation

**VSE**

**FORMAT: \$JOBACCT pid**

Command format from Unicenter CA-FAQS ASO online. Enter \$JOBACCT from the Unicenter CA-FAQS ASO command line. If you do not specify a partition ID, information for all partitions is displayed.

**CMS**

**FORMAT: SMSG machine ASO \$JOBACCT pid  
ASO machine JOBACCT pid ...**

Command format from CMS. See the supplied ASO EXEC. You may need prior authorization for SMSGs. If you do not specify a partition ID, information about all the partitions is displayed.

The body of the IMOD contains the executable instructions.

As you go through this explanation, place your cursor on the first letter of each instruction being discussed, and press PF01 (Help). This takes you to the online help that is available for each REXX instruction.

```

/*****/ =====
arg pid /* get pid */ =====
pid = substr(strip(pid),1,2) /* parse partition id */ =====
say '$JOBACCT' '-' date(w) '-' date() '-' time() =====
say ' Job Phase Job Step Cpu SIO' =====
say ' Name Name Duration Duration Seconds Count' =====
if pid="" then do /* user specified a PID */ =====
    x=jobacct(pid) /* get JOBACCT for specified pid */ =====
    if rc=0 then do /* echo pid and jobacct */ =====
        y=pid
        say y x
        end
    else say 'JOBACCT failed rc='||rc 'pid='||pid /* else echo error */ =====
end /* end user specified pid */ =====
else do /* user did not specify pid */ =====
    pid=pidlist('B') /* set possible pids */ =====
    j=length(pid)%2 /* calculate # of Pids in string */ =====
    do i = 0 to j-1 /* loop for number of pids-1 */ =====
        y=substr(pid,i*2+1,2) /* calculate index to pid string*/ =====
        x=jobacct(y) /* get JOBACCT for pid y */ =====
        if rc=0 then do /* echo pid and jobacct */ =====
            say y x
            end
        else say 'JOBACCT failed rc='||rc 'pid='||y /* else echo error */ =====
    end /* end user did not specify pid */ =====
end
exit
/*****/ =====

```

**\$JOBACCT Instruction and Function**

**arg pid**

Gets the partition ID (if any).

**pid = substr(strip(pid),1,2)**

Parses the partition ID

**say ...say ...say ...**

Set up column headings

**if ... then ... else**

Decides whether the user specified a partition ID and, if not, determines all possible partition IDs and information and displays them all.

**exit**

Exits all executable instructions

### Task 3: Executing \$JOBACCT from an Online Command

You can create your own online command to execute any IMOD. In the procedure that follows, you will learn how to create an online command to execute \$JOBACCT.

Often, creating your own online command to execute an IMOD is much easier than entering **IMOD *imodname***, the standard command you would use to execute an IMOD online.

#### Procedure

To create an online command to execute \$JOBACCT, do the following:

1. From the FAQs command line, enter the fast-path command, **AO I.O.** This command takes you to the Online Command File Directory List:

```

FAOMENUO.O          ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>
** FAQS ASO -- Online Command File Directory List **      Key ==> *          <==
TECHVSE:           RECORDS  UPDATE TIMESTAMP      LOAD TIMESTAMP
_ *                9       02/01/02 16.13.06      01/21/02 00.04.50
_ TECHVSE          10       02/01/02 15.19.31      01/21/02 10.23.11

X=Edit L=Delete R=Rename C=Copy
PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def
    
```

2. Enter **X** in the input field to the left of **TECHVSE**, the online command file you created in the chapter, "Using Unicenter CA-FAQS ASO Online." The cursor tabs to the first input field for the first command in the **TECHVSE** file.

3. Enter **A** in this input field. The following panel is displayed:

```

FAOMENUO.M          ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>
      ** FAQS ASO -- Online Command Definition **      FILE ==> TECHVSE  <==

COMMAND:    ==>                <== Online command to intercept
Description: ==>                <==

New command:

Display command and description in help screen              YES  NO
                                                           (  ) (  )

Allow arguments to be passed as variables to the new command (  ) (  )
Also pass COMMAND as the first variable                    (  ) (  )

(substitution occurs at '@' symbols)

PF1=Help PF3=Return PF5=Save
    
```

4. Enter **JOBACCT** in the *COMMAND:==>* input field.
5. Enter **Display job statistics** in the *Description:==>* input field.
6. Enter **IMOD \$JOBACCT** in the *New command:* field.
7. For *Display command and description in help screen*, select **YES**.
8. For *Allow arguments to be passed as variables to the new command*, select **NO**.
9. For *Also pass COMMAND as the first variable*, select **NO**. Your panel should look like the following:

```

FAOMENUO.M          ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>
      ** FAQS ASO -- Online Command Definition **      FILE ==> *      <==

COMMAND:    ==> jobacct          <== Online command to intercept
Description: ==> Display job statistics          <==

New command:
imod $jobacct

Display command and description in help screen              YES  NO
                                                           (  x ) (  )

Allow arguments to be passed as variables to the new command (  ) (  x )
Also pass COMMAND as the first variable                    (  ) (  x )

(substitution occurs at '@' symbols)

PF1=Help PF3=Return PF5=Save
    
```

10. Press PF5 (Save) to save TECHVSE with the new online command, JOBACCT.
11. Press PF3 (Return) to return to the Online Commands Directory List for TECHVSE.
12. Press PF6 (Load) to load TECHVSE into the SVA. This makes TECHVSE the current online command file.

You will see the following message:

```
GFT260I ONLINE COMMAND FILE TECHVSE LOADED
```

13. Press PF3 (Return) to return to the console display.
14. From the FAQs command line, enter **JOBACCT** to test your new command. You will see a panel like the following:

```

** Unicenter - ASO IMOD Interface ** ID=ADMINH.ADMIN2
IMOD $JOBACCT
$JOBACCT - Thursday - 13 Jun 2002 - 13:26:40
  Job      Phase      Job      Step      Cpu      SIO
  Name     Name        Duration Duration Seconds  Count
F1 IPWPOWER AXPL9      38.59.39 14.59.38 070.97   118538
F3 VTAMSTRT ISTINCVT   38.58.33 14.58.18 013.89    3771
F5 EVSEIBAT EVSESBAT   39.01.42 15.01.41 008.03    6561
F7 JCLSCHED JCLSCHED   02.06.16 02.06.10 024.95   10716
F6 NO NAME  NO NAME
F4 NO NAME  NO NAME
F2 CICS MROA DFHSIP     38.57.55 14.55.01 027.15   12605
FB SQL310   ARISQLDS   38.57.44 14.57.43 002.62   15957
F8 EXPCDEV  ECDIGEN    38.57.32 14.57.31 016.91    745
F9 NO NAME  NO NAME
FA NO NAME  NO NAME
BG NO NAME  NO NAME

PF01=Help PF03=Return PF07=Backward PF08=Forward

```

Now that you have learned how to execute \$JOBACCT from an online command, you will learn how to execute \$JOBACCT from a console command.

## Task 4: Executing \$JOBACCT from a Console Command

Using Unicenter CA-FAQS ASO, you can also create a console command to execute \$JOBACCT. Unicenter CA-FAQS ASO not only provides you with the flexibility to create your own console commands, but it enables you to create a console command online, from a user-friendly screen.

### Procedure

To execute \$JOBACCT from a console command, take the following steps:

1. From the FAQS command line, enter the fast-path command, **AO I.C.** This command takes you to the Console Command File Directory List:

```

FAOMENUC.*          ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>
** FAQS ASO -- Console Command File Directory List **      Key ==> *      <==
COMMAND FILE      RECORDS  UPDATE TIMESTAMP      LOAD TIMESTAMP
_  FAQSASO          50    01/20/02 16.13.19     01/21/02 18.49.07
_  TECHVSE          50    01/20/02 18.18.39     01/22/02 09.12.37

X=Edit L=Delete R=Rename C=Copy A=Add
PF1=Help PF3=Return PF4=Refresh PF5=Add PF6=Current def
    
```

2. Enter **X** in the input field to the left of **TECHVSE**. This takes you to the Console Commands Directory List:

```

FAOMENUC.3          ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>
** FAQS ASO -- Console Commands Directory List **      FILE ==> TECHVSE  <==
** Key ==> *      <==
Console Command LOG Function:  GOAL IMOD or Command
_  $ARG              N IMOD=$ARG
_  $BEEPER           N IMOD=$BEEPER
_  $GETVIS           N IMOD=$GETVIS
_  $JOBACCT          N IMOD=$JOBACCT
_  $MSG              N IMOD=$MSG
_  $REPLID           N IMOD=$REPLID
_  $STATUS           N IMOD=$STATUS
_  $VTAM             N IMOD=$VTAM
_  ADDRESS           N IMOD=$ADDRESS
X=Edit L=Delete A=Add
PF1=Help PF3=Return PF4=Refresh PF5=IMOD Menu PF6=Load PF8=Fwd
    
```

3. \$JOBACCT already exists as a console command in the TECHVSE console command file. Enter **X** in the input field to the left of \$JOBACCT.

The Console Command Definition panel for \$JOBACCT is displayed. This panel defines the console command \$JOBACCT, which runs the \$JOBACCT IMOD.

```

FAOMENUC.M          ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>
** FAQS ASO -- Console Command Definition **      FILE ==> TECHVSE  <==

COMMAND  ==> $JOBACCT      <== Console command to intercept

                YES  NO
LOG Command (  ) ( X )

                Run an REXX IMOD for the COMMAND

EDIT
_ IMOD ==> $JOBACCT <==      REXX EXEC to Execute
Args ==> _                  Old Style Args

                Replace COMMAND with the CMD below

==>                                                    <==

PF1=Help PF3=Return PF5=Save PF6=IMOD DIRECTORY
    
```

4. Press PF3 (Return) to return to the Console Commands Directory List for TECHVSE.
5. Press PF6 (Load) to load TECHVSE into the SVA. This makes TECHVSE the current console command file.

You will see the following message:

```
GAO647 COMMAND FILE TECHVSE LOADED
```

6. Press PF3 (Return) to return to the console display. The GAO647 message will be displayed on the console, too.
7. To execute \$JOBACCT from the FAQS command line, enter \$JOBACCT.

A display like the following will appear on the console:

```

Y1-0046 GJJ206I JOB SCHEDULER ACTIVE                      12:52:14
F3 0003 IST314I END                                      09:37:05
F7 0159 GFX004I ADMIN02  SESSION ESTABLISHED              09:38:33
$JOBACCT                                               XCM ADMIN02      09:38:45
Y1 0171 $JOBACCT - Wednesday - 3 Apr 2002 - 09:38:45    09:38:45
Y1 0171      Job      Phase      Job      Step      Cpu      SIO      09:38:45
Y1 0171      Name      Name      Duration  Duration  Seconds  Count    09:38:45
Y1 0171 F1 POWSTART  AXPL9    88.47.04  20.47.03  097.90   103121  09:38:45
Y1 0171 F3 VTAMSTRT  ISTINCVT 88.46.48  20.46.48  240.97   6801   09:38:45
Y1 0171 F7 FAQS      FAQSMX    88.46.48  20.46.47  116.19   4282   09:38:45
Y1 0171 F2 CICSICCF  DFHSIP    88.46.47  20.46.41  382.03   47042  09:38:45
Y1 0171 F4 EXPLVTAM  EXPVMAIN 12.50.58  12.50.58  024.64   562    09:38:45
Y1 0171 F5 NO NAME    NO NAME                                09:38:45
Y1 0171 F6 NO NAME    NO NAME                                09:38:45
Y1 0171 F8 EXPDCICS  ECDIGEN  88.46.44  20.46.41  106.47   1054   09:38:45
Y1 0171 F9 NO NAME    NO NAME                                09:38:45
Y1 0171 FA NO NAME    NO NAME                                09:38:45
Y1 0171 FB NO NAME    NO NAME                                09:38:45
Y1 0171 BG NO NAME    NO NAME                                09:38:45
Y1 0171 E1 EVSEINIT  EVSESBAT 88.46.38  20.46.38  151.82   8977   09:38:45
Y1 0171 Y1 JCLSCHED  JCLSCHED 88.46.36  20.46.35  119.19   44115  09:38:45

ENTER FAQS COMMAND      (OPERATOR MODE)      (TIMED RE-DISPLAY)      09:39:05

COAVSE22 XCM ADMIN02
    
```

## Creating Your Own IMOD

Although Unicenter CA-FAQS ASO is shipped with many useful IMODs, you will want to create your own IMODs to meet your particular needs. In this section, you will perform the following tasks:

1. Create an IMOD called SHUTCICS
2. Execute SHUTCICS

### IMODs in PDSs

You can search for IMODs in more than one PDS (partitioned dataset). All CA-supplied IMODs reside in the SYS\$MON PDS, with a data type of OAL. However, you can search this PDS as well as a user-defined PDS when you are looking for an IMOD to execute or edit.

The AO STARTUP (Unicenter CA-FAQS ASO startup and initialization) procedure produces an informational message displaying the PDSs to search for REXX IMODs.

With CA-GSS for VSE 5.0, you can configure GSS to search an additional PDS for IMODs. This support allows IMODs in a user-defined PDS to call routines that reside in SYS\$MON. The additional PDS defined to GSS can be different from the PDS defined in the CA-FAQS/ AO IMOD Initialization panel.

### Task 1: Creating an IMOD, SHUTCICS

In this section, we will show you how to create your own IMOD. The IMOD you create will reflect a "real-world" application.

The IMOD you create will be called SHUTCICS. The IMOD will check all active partitions for any that are running DFHSIP, issue a MSG to that partition, and issue a CEMT P SHUT command as a reply to the partition.

## Procedure

To create an IMOD, follow these steps:

1. From the FAQs command line, enter **AO R**. This takes you to the REXX IMOD File Directory List:

```

FAOMENUR.0      ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>
** FAQs ASO -- REXX IMOD File Directory List **           Key ==> *           <==
                                                         PDS ==> VIO         <==

  IMOD NAME      RECORDS  UPDATE TIMESTAMP      COMPILE TIMESTAMP  Compiled
- $LVARGT         44      12/31/02 11.15.29      12/31/02 11.15.31  *
- $LVARSV         67      12/28/02 09.46.33      12/28/02 09.46.33  *
- $AAALC          100      07/06/02 14.04.01      07/06/02 14.04.01  *
- $ADDRESS        26      10/27/02 12.39.05      10/27/02 12.39.05  *
- $ADPSCR         77      04/03/02 15.39.04      04/03/02 15.39.05  *
- $ANY            16      03/05/02 15.41.12      06/12/02 10.31.23  *
- $AOSCHED        23      03/26/02 16.02.59      03/26/02 16.03.02  *
- $APOWER        118      03/11/02 19.01.31      03/11/02 19.01.32  *
- $ARG            40      10/27/02 12.38.49      10/27/02 12.38.50  *
- $ARGS           47      04/07/02 13.59.17      04/07/02 13.59.18  *
- $BEEPASO       128      10/27/02 12.38.51      10/27/02 12.38.51  *
- $BEEP DGT      244      10/27/02 12.38.55      10/27/02 12.38.55  *
- $BEEPDRR        58      10/27/02 12.38.52      10/27/02 12.38.53  *
- $BEEP DSC     236      10/27/02 12.38.54      10/27/02 12.38.54  *
- $BEEP D1        75      10/27/02 12.38.52      10/27/02 12.38.52  *
E=Execute X=Edit L=Delete R=Rename C=Copy P=Print

PF1=Help PF3=Return PF4=Refresh PF5=Add PF8=Fwd

```

2. Press PF5 (Add) to add a new IMOD. The following panel is displayed:

```

FAOMENUR.5      ** Unicenter CA-FAQS ASO Online 5.0-0203**  ID=ADMINH.ADMIN2
===>

** FAQs ASO IMOD ADD **

Enter IMOD name to add.

==>

PF3=Return

```

3. Type **SHUTCICS** as the IMOD name to add.

4. Press ENTER to enter the REXX editor. The following panel is displayed:

```
=> MEM=SHUTCICS LINE=0
1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75.
*** BEGIN FILE ***
*** END FILE ***
```

5. From the line containing BEGIN FILE, tab to the prefix area (====) and enter **a15** to add fifteen lines. The IMOD you're going to create is fifteen lines long.
6. Create the following IMOD. Enter each line *exactly* as it appears here:

```
=> MEM=SHUTCICS LINE=0
1...5...10...15...20...25...30...35...40...45...50...55...60...65...70...75
*** BEGIN FILE ***
/* Procedure to shutdown all CICS systems */
pidstr=pidlist('B') /* Get list of partition ids */
do i=1 to length(pidstr)/2 /* Loop through the list */
  pid=substr(pidstr,(i-1)*2+1,2) /* Extract 1 id */
  phase=phase(pid) /* Get name of phase */
  if phase='DFHSIP' then do /* Check for CICS */
    address console 'MSG' pid /* MSG the CICS partition */
    x=wait(2) /* Wait for a response */
    repstr=replid(pid) /* Get the replid */
    if repstr<>' ' then do /* If there is one */
      replid=substr(repstr,4,4) /* ... extract it */
      address console replid 'CEMT P SHUT' /* Issue reply */
    end /* if repstr */
  end /* if phase */
end /* do i */
*** END FILE ***
```

To access online help from this panel, either

- Press PF1 (Help) if your cursor is in the command area (==>)
  - Place your cursor on any REXX instruction and press PF1
7. Enter **FILE** to save and compile your IMOD.
8. Press PF3 (Return) until you return to a console display.

## Task 2: Executing SHUTCICS

SHUTCICS will be automatically triggered when you enter the SHUTCICS command on the console. It can be used to simplify your system shutdown procedures. You can write other IMODs to shutdown the rest of your system. Just remember that FAQSAO is needed to run the IMODs, so it has to be shut down last!

### Procedure

You should have created the SHUTCICS command and reloaded the console command file at the end of the last chapter. If you have not done this, you can go back and do it now. When you are ready to shutdown your CICS systems, just enter SHUTCICS on the console. It will find all the partitions running DFHSIP and issue a CEMT P SHUT to each.



# Console Filtering

---

This chapter explains how to use the Unicenter CA-FAQS ASO extended security feature, console filtering.

Unicenter CA-FAQS ASO contains enhanced security features for user access to Unicenter CA-FAQS ASO displays and data. Using Extended Security, you can set up console filters to specify or limit access to console data.

Console filtering is a new feature of Unicenter CA-FAQS ASO for VSE/ESA 2.1.

In this chapter, you will perform the following tasks:

1. Create a console filter member
2. Define a console action
3. Define a variable
4. Define a console condition

For more reference-oriented information about console filtering, see the chapter, "Security and User Configuration," in the *Unicenter CA-FAQS ASO User Guide*. But before consulting that, take a look at the online help accessible via PF1 (Help) from all the console filtering panels. There is full panel help as well as field-sensitive help keyed to terms within the full-panel help.

## Task 1: Creating a Filter Member

A console filter is a set of user-defined rules for controlling the appearance and functionality of the Unicenter CA-FAQS ASO console.

Each “rule” in a console filter is a console filter entry. It is an equation consisting of one or two conditions that have to be satisfied in order for a console line to have its characteristics changed, or for a variable to be set.

### Access

You can access console filtering in either of the following ways:

Select the Extended Security menu option (option S off the Unicenter CA-FAQS ASO *Online Menu*).

Enter **FILTER** from a Unicenter CA-FAQS ASO command line. This takes you directly to the Console Filter Member List. Or, if you know the name of the filter you want to work on, enter **FILTER** *filtername*, where *filtername* is the name of a user-defined filter. Only the *filtername* filter will appear in the Console Filter Member List.

### Procedure

To create a console filter member, take the following steps:

1. From the Unicenter CA-FAQS ASO Online Menu, select option S, the Extended Security menu option. The Online Security panel is displayed:

```
FAQMENSCL.S          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
                    ** Unicenter CA-FAQS ASO -- Online Security **

T - Terminal filters maintenance

PF01=Help PF03=Return PF12=Exit
```

2. From the Online Security panel, enter **T** to access the Console Filter Member List panel:

```

FAQMENST.0          ** Unicenter CA-FAQS ASO Online V5.0.x **          ID=DEVTSYS3.KJM
===>
      ** Unicenter CA-FAQS ASO -- Console Filter Member List **

Search for FILTER:          CPU id:

FILTER  CPUID      DESCRIPTION          DATE      TIME  RECS
_ AMORRIS          Filter data for Tony Morrison  04/12/02  10.37.02  9
_ BENS             Filter data for user bteague   02/02/02  11.06.55  9
_ FAQSASO         Example of filter use         04/24/02  16.40.22  10
_ KJM             Filter data for user kjm       06/22/02  15.46.31  12
_ NICK           Filter data for user nick      11/08/02  14.24.00  4
_ SAMPLE         Example of filter use         06/29/02  14.57.56  10
_ TESTFIL2       Test Console filtering.       04/20/02  10.57.12  11
_ TESTITZZ       Test Console filtering.       09/01/02  12.06.13  11

A=Alter C=Copy L=Delete R=Rename PF5=Add name= _____
PF1=Help PF2=Srch PF3=Retn PF4=Refresh PF7=Bwd

```

3. To create a console filter of your own, you are going to copy a sample member (supplied with Unicenter CA-FAQS ASO) called FAQSASO.

Move the cursor to the input field to the left of FAQSASO, in the FILTER column. Type **C** (Copy) in the field. Then type a name for your filter over FAQSASO. We will use the name **USER1**. Press **ENTER**. Your panel should look like the following:

```

FAQMENST.0          ** Unicenter CA-FAQS ASO Online V5.0.x **          ID=DEVTSYS3.KJM
===>
      ** Unicenter CA-FAQS ASO -- Console Filter Member List **

Search for FILTER:          CPU id:

FILTER  CPUID      DESCRIPTION          DATE      TIME  RECS
_ AMORRIS          Filter data for Tony Morrison  04/12/02  10.37.02  9
_ BENS             Filter data for user bteague   02/02/02  11.06.55  9
_ FAQSASO         Example of filter use         04/24/02  16.40.22  10
_ KJM             Filter data for user kjm       06/22/02  15.46.31  12
_ NICK           Filter data for user nick      11/08/02  14.24.00  4
_ SAMPLE         Example of filter use         06/29/02  14.57.56  10
_ TESTFIL2       Test Console filtering.       04/20/02  10.57.12  11
_ TESTITZZ       Test Console filtering.       09/01/02  12.06.13  11
_ USER1         Example of filter use         07/13/02  18.49.10  10

A=Alter C=Copy L=Delete R=Rename PF5=Add name= _____
PF1=Help PF2=Srch PF3=Retn PF4=Refresh PF7=Bwd

```

- To see the contents of console filter USER1, move your cursor to the input field to the left of it and press ENTER. The Console Filter Member Maintenance panel for USER1 is displayed:

```

FAQMNTA.A          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO -- Console Filter Member Maintenance **
Alter = 0

Filter name: USER1          CPU ID:          Delete= 0
Description: Example of filter use          Stack = 0

0001 SET ACT=HLT(,RED,,HIG) IF MES(1,1)=='ASO>' OR N/A
0002 SET ACT=HLT(,BLU,,) IF PAR==S* OR N/A
0003 SET ACT=HLT(,RED,BLI,):END IF MES(1,5)==@@447E OR MES(1,5)==@@715+
0004 SET ACT=HLH(,YEL,REV,) IF PAR=='F1' OR N/A
0005 SET ACT=UNH IF PAR=='F1' OR N/A
0006 SET ACT=HLT(,BLU,,NML) IF PAR=='F4' OR N/A
0007 SET ACT=HLT(,TUR,,NML) IF PAR==T* OR N/A
0008 SET ACT=HLT(,WHI,,NML) IF ROU=(5,10,12,17-20,34,35,37,38) OR N/A
0009 SET ACT=HLT(,,HIG) IF LEV=(W,M,C,E) OR N/A

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add PF6=File PF10=Shift
    
```

Filter USER1 contains nine filter entries, each of which defines an action to be performed on the Unicenter CA-FAQS ASO console when a condition or conditions is met. (A filter entry can also define a variable, which can then be used to help define another entry's condition.) Each entry is like an equation that reads, "Do *this* if that is (or is not) true." For example, filter entry 0005 reads:

```
SET ACT=UNH IF PAR=='F1' OR N/A
```

This means, "Unhold any console line belonging to partition ID F1."

## Task 2: Defining a Console Action

One of the basic tasks you can perform with console filtering is to set an action for a console condition. An action is any change to be made to a console's characteristics. For example, you want a particular message to display in red on the console. The action to be set in this case is color red. With console filtering, setting this action is easy.

### Procedure

To define an action, take the following steps:

1. On the Console Filter Member Maintenance panel for filter USER1, move your cursor to column 1 of the numbered prefix field for entry 0006, and press ENTER. The Console Filter Add/Copy panel for entry 0006 is displayed:

```

FAQMENTB.B          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
====>
** Unicenter CA-FAQS ASO -- CONSOLE Filter Add/Copy panel **      0006

Variable
Action   ( X )   Display control:   Highlight control:   Color only ( _ )
          ( _ )   Suppress ( _ )     _ Highlight         NORMAL
          ( _ )   Hold ( _ )       _ Color             BLUE
          ( _ )   Unhold ( _ )    _ Extended attr    _____
          ( _ )   Beep ( _ )
          ( _ )   End scan ( _ )

IF NOT( _ )   _ PAR          (Partition id)          Exactly Equal ( X )
              _ 'F4'

              AND/OR ( X )          Or condition if on

NOT ( _ )   _ N/A          (None)          Exactly Equal ( _ )
          _

SET ACT=HLT(,BLU,,NML) IF PAR=='F4' OR N/A

PF1=Help  PF3=Return with line  PF12=Cancel line update

```

Notice that in the lower left-hand corner of this panel, the text of entry 0006 appears as it did on the Member Maintenance panel. Parts of that text also appear in the various fields of the Add/Copy panel. The relationship between these fields and the lower-left-hand display is soon apparent: As you use the fields to change parts of the entry, those changes are reflected in the entry's display at the bottom (once you press ENTER to update the display).

2. The first step to take in defining an action is to select action as the thing being defined. (We will see later how to define the other possible choice, a variable.). Entry 0006 already defines an action, as indicated by the X in the Action field. We keep the action setting but change the action types.

Move your cursor to the input field to the left of Highlight and press ENTER. The following panel is displayed:

```
FAQMENTB.i          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
                   ** Unicenter CA-FAQS ASO INTENSITY Selection **
NORMAL              ( X )
HIGH                ( _ )

PF3=Return
```

Remove the X from the NORMAL field and type an X in the HIGH field. Then press PF3 (Return). Back on the Add/Copy panel, move the cursor to the command line and press ENTER.

3. Move the cursor to the input field next to Color and press ENTER. You now see a display that shows the following choices for color:

- BLUE
- RED
- PINK
- GREEN
- TURQUOISE
- YELLOW
- WHITE

Repeat the process that you went through for selecting intensity, changing the selection for color from BLUE to RED. Once you have finished, your panel should look like the following:

```

FAQMENTB.B          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO -- CONSOLE Filter Add/Copy panel **      0006

Variable           _
Action             ( X )  Display control:  Highlight control: Color only ( _ )
                    Suppress ( _ )  _ Highlight      HIGH
                    Hold      ( _ )  _ Color          RED
                    Unhold    ( _ )  _ Extended attr  _____
                    Beep      ( _ )
                    End scan  ( _ )

IF NOT( _ )  _ PAR      (Partition id)      Exactly Equal ( X )
            _ 'F4'

                    AND/OR ( X )      Or condition if on

NOT ( _ )  _ N/A      (None)      Exactly Equal ( _ )
            _

SET ACT=HLT(,RED,,HIG) IF PAR=='F4' OR N/A

PF1=Help  PF3=Return with line  PF12=Cancel line update

```

## Task 3: Setting a Variable

A task that is key to the benefits of console filtering is the ability to set a variable. A variable is a preliminary condition that is set so it can be used as part of another condition definition. A variable enables the Unicenter CA-FAQS ASO user to introduce into the condition definition process more than the two levels of decision-making available from the IF fields on the Console Filter Add/Copy panel. By setting variables, a user taps into the full complexity of console filtering as a way of controlling the console display.

### Procedure

To define a variable, take the following steps:

1. On the Console Filter Member Maintenance panel, make a copy of filter entry 0009. To do this, move the cursor to any part of the numbered editing area 0009, type a quote mark ( " ), and press ENTER. A copy of 0009 is made and listed below it as 0010:

```

FAQMENTA.0          ** Unicenter CA-FAQS ASO Online V4.5.1 **          ID=DEVTST3.KJM
===>
** Unicenter CA-FAQS ASO -- Console Filter Member Maintenance **
Alter = 9

Filter name: USER1          CPU ID:          Delete= 2
Description: Example of filter use          Stack = 0

0001 SET ACT=HLT(,RED,,HIG) IF MES(1,1)=='ASO>' OR N/A
0002 SET ACT=HLT(,BLU,,) IF PAR==S* OR N/A
0003 SET ACT=HLT(,RED,BLI,):END IF MES(1,5)==@@447E OR MES(1,5)==@@715+
0004 SET ACT=HLH(,YEL,REV,) IF PAR=='F1' OR N/A
0005 SET ACT=UNH IF PAR=='F1' OR N/A
0006 SET ACT=HLT(,BLU,,NML) IF PAR=='F4' OR N/A
0007 SET ACT=HLT(,TUR,,NML) IF PAR==T* OR N/A
0008 SET ACT=HLT(,WHI,,NML) IF ROU=(5,10,12,17-20,34,35,37,38) OR N/A
0009 SET ACT=HLT(,,HIG) IF LEV=(W,M,C,E) OR N/A
0010 SET ACT=HLT(,,HIG) IF LEV=(W,M,C,E) OR N/A

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add PF6=File PF10=Shift PF7=Bwd

```

Move your cursor to the numbered editing area for 0010, and press ENTER.

2. On the Add/Copy panel, put a blank in the Action field and then type a two-digit number (01-99) in the Variable field. For our example, we will use 01. Press ENTER, and you should see the following display:

```

FAQMENTB.0          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVST3.KJM
====>
** Unicenter CA-FAQS ASO -- CONSOLE Filter Add/Copy panel **      0010

Variable      01
Action        ( _ )  Display control:  Highlight control: Color only ( _ )
                Suppress ( _ )      _ Highlight          HIGH
                Hold ( _ )         _ Color
                Unhold ( _ )       _ Extended attr   _____
                Beep ( _ )
                End scan ( _ )

IF NOT( _ )  _ LEV          (Message level)      Exactly Equal ( _ )
            _ (W,M,C,E)

                AND/OR ( X )                      Or condition if on

NOT ( _ )  _ N/A          (None)                  Exactly Equal ( _ )
            -

SET V01 IF LEV=(W,M,C,E) OR N/A

PF1=Help  PF3=Return with line  PF12=Cancel line update

```

Note the display of variable 01 (V01) at the lower left.

3. To set a different condition for variable 01 (different from the one for entry 0009), move the cursor to the input field next to LEV, and press ENTER. The following panel is displayed:

```

FAQMENTB.t          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVST3.KJM
====>
** Unicenter CA-FAQS ASO FILTER Type Selection **

for Message, data must start between columns ___ and ___
for Variable, get data from variable number ___

Message          ( _ )
Partition id     ( _ )
Job name         ( _ )
Attributes       ( _ )
Descriptor codes ( _ )
Message level    ( X )
System name of originator ( _ )
Routing codes    ( _ )
Miscellaneous flags ( _ )
CART information ( _ )
Variable number  ( _ )
None             ( _ )

PF3=Return

```

We are going to change the filter type here to Partition id. So delete the X next to Message level and put one next to Partition id instead. Press PF3 (Return).

- Now move the cursor to the input field next to (W,M,C,E) and press ENTER. You should see this panel:

```

FAQMENTB.p          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
          ** Unicenter CA-FAQS ASO Target partition definition **

Look for the following partition:

(W

Select from the following list:
# - match any number (0-9)
$ - match if alphanumeric
@ - match if alphabetic
* - match a pattern

PF3=Return
    
```

As data to complete the Partition id filter type for our example, we're going to specify partition F1. Overtyping ( W with F1, and then press PF3 (Return).

- Back on the Add/Copy panel, move the cursor to the command line and press ENTER. The full definition of variable 01 should now appear:

```

FAQMENTB.0          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO -- CONSOLE Filter Add/Copy panel **      0010

Variable      01
Action      ( _ )  Display control:  Highlight control: Color only ( _ )
              Suppress ( _ )  _ Highlight          HIGH
              Hold      ( _ )  _ Color              _____
              Unhold    ( _ )  _ Extended attr      _____
              Beep      ( _ )
              End scan  ( _ )

IF NOT( _ )  _ PAR      (Partition id)      Exactly Equal ( X )
              _ 'F1'

              AND/OR ( X )      Or condition if on

NOT ( _ )  _ N/A      (None)      Exactly Equal ( _ )
              _

SET V01 IF PAR=='F1' OR N/A

PF1=Help  PF3=Return with line  PF12=Cancel line update
    
```

6. To list variable 01 as part of console filter USER1, press P3 (Return). Variable 01 has been set and is now listed as entry 0010 on the Member Maintenance panel:

```
FAQMENTA.3          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO - Console Filter Member Maintenance **  Alter = 2
                                                                Delete= 0
Filter name: USER1          CPU ID:          Stack = 0
Description: Example of filter use

0001 SET ACT=HLT(,RED,,HIG) IF MES(1,1)=='ASO>' OR N/A
0002 SET ACT=HLT(,BLU,,) IF PAR==S* OR N/A
0003 SET ACT=HLT(,RED,BLI,):END IF MES(1,5)==@@447E OR MES(1,5)==@@715+
0004 SET ACT=HLH(,YEL,REV,) IF PAR=='F1' OR N/A
0005 SET ACT=UNH IF PAR=='F1' OR N/A
0006 SET ACT=HLT(,BLU,,NML) IF PAR=='F4' OR N/A
0007 SET ACT=HLT(,TUR,,NML) IF PAR==T* OR N/A
0008 SET ACT=HLT(,WHI,,NML) IF ROU=(5,10,12,17-20,34,35,37,38) OR N/A
0009 SET ACT=HLT(,,HIG) IF LEV=(W,M,C,E) OR N/A
0010 SET V01 IF PAR=='F1' OR N/A

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add PF6=File PF10=Shift
```

## Task 4: Defining a Console Condition

Once you have defined actions and possibly a variable or two, you are ready to create a full-fledged console entry by defining a condition that is tied to a console action. To define a console condition, you will use the same IF field (in our example, you will use both IF fields) that you used to set a variable.

### Procedure

To define a condition, take the following steps:

1. On the Console Filter Member maintenance panel for filter USER1, type a slash (/) in the numbered prefix field for the 0010 entry (the variable 01 entry you created in Task 3). Press ENTER. You should now have a display of the panel showing just the 0010 entry. (The other entries have been moved up in the display while 0010 becomes the current entry.)

```

FAQMENTA.0          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO -- Console Filter Member Maintenance **  Alter = 12
                                                                    Delete= 7
  Filter name: USER1          CPU ID:          Stack = 0
  Description: Example of filter use

0010 SET V01 IF PAR=='F1' OR N/A

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add PF6=File PF10=Shift PF7=Bwd
    
```

2. With 0010 as the current entry, press PF5 (Add) to obtain a blank Console Filter Add/Copy panel:

```

FAQMENTB.B          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO -- CONSOLE Filter Add/Copy panel **      0000

Variable
Action   ( X )  Display control:  Highlight control: Color only ( _ )
          ( _ )  Suppress   ( _ )  _ Highlight   _____
          ( _ )  Hold       ( _ )  _ Color       _____
          ( _ )  Unhold    ( _ )  _ Extended attr _____
          ( _ )  Beep      ( _ )
          ( _ )  End scan  ( _ )

IF NOT( _ )  _ _____ Exactly Equal ( _ )
            _ _____
            AND/OR ( _ )  Or condition if on

NOT ( _ )  _ _____ Exactly Equal ( _ )
          _ _____

PF1=Help PF3=Return with line PF12=Cancel line update
    
```

3. We go to the Add/Copy panel most often to create an action, so the one default setting on this panel is Action ( X ). For our condition example, we are going to highlight in red a message that meets certain conditions. So let's select red as the action color. Another way to do that (instead of selecting RED from the sub-panel Unicenter CA-FAQS ASO Color Selection) is to type the string RED in the underlined field to the right of Color. Then press ENTER. You should now have the following updated display:

```

FAQMENTB.0          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
  ** Unicenter CA-FAQS ASO -- CONSOLE Filter Add/Copy panel **      0000

Variable
Action      ( X )  Display control:  Highlight control: Color only ( _ )
                Suppress ( _ )    _ Highlight
                Hold      ( _ )    _ Color          RED
                Unhold    ( _ )    _ Extended attr  _____
                Beep      ( _ )
                End scan  ( _ )

IF NOT( _ )  _ N/A      (None)          Exactly Equal ( _ )
            -
                                AND/OR ( X )      Or condition if on

NOT ( _ )  _ N/A      (None)          Exactly Equal ( _ )
            -

SET ACT=HLT(,RED,,) IF N/A OR N/A

PF1=Help  PF3=Return with line  PF12=Cancel line update

```

4. Now let's define our console conditions. We will use our already-defined variable 01 to define the first condition. To do this, move the cursor to the upper condition field marked N/A, and press ENTER. Then on the Filter Type Selection panel, make the following entries:

```

FAQMENTB.t          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
  ** Unicenter CA-FAQS ASO FILTER Type Selection **

for Message, data must start between columns  ___ and ___
for Variable, get data from variable number  01

Message                ( _ )
Partition id           ( _ )
Job name               ( _ )
Attributes             ( _ )
Descriptor codes       ( _ )
Message level         ( _ )
System name of originator ( _ )
Routing codes          ( _ )
Miscellaneous flags    ( _ )
CART information       ( _ )
Variable number        ( X )
None                   ( _ )

PF3=Return

```

- Having made the entries in Step 3, press PF3 (Return). Back on the Add/Copy panel, move the cursor to the command line and press ENTER to update the display. The Add/Copy panel should look like the following:

```

FAQMENTB.0          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO -- CONSOLE Filter Add/Copy panel **      0000

Variable
Action      ( X )  Display control:  Highlight control: Color only ( _ )
              Suppress ( _ )  _ Highlight
              Hold      ( _ )  _ Color          RED
              Unhold    ( _ )  _ Extended attr  _____
              Beep      ( _ )
              End scan  ( _ )

IF NOT( _ )  _ V01      (Variable number 01)  Exactly Equal ( _ )
              -
              AND/OR ( X )      Or condition if on
              NOT ( _ )  _ N/A      (None)      Exactly Equal ( _ )
              -

SET ACT=HLT(,RED,,) IF V01 OR N/A

PF1=Help  PF3=Return with line  PF12=Cancel line update
    
```

- Using variable 01, we set a condition saying that anything associated with partition F1 is to be shown in red on the console. For a second condition, let's narrow anything down to messages beginning with the characters GPP. Move your cursor to the lower condition field (currently labeled N/A), and press ENTER. On the Filter Type Selection panel, make the following entries and press PF3 (Return):

```

FAQMENTB.t          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO FILTER Type Selection **

for Message, data must start between columns 01 and 01
for Variable, get data from variable number  __

Message          ( X )
Partition id     ( _ )
Job name         ( _ )
Attributes       ( _ )
Descriptor codes ( _ )
Message level    ( _ )
System name of originator ( _ )
Routing codes    ( _ )
Miscellaneous flags ( _ )
CART information ( _ )
Variable number  ( _ )
None            ( _ )

PF3=Return
    
```

7. After you press ENTER back on the Add/Copy panel to update it, you should end up with the following display:

```

FAQMENTB.0          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO -- CONSOLE Filter Add/Copy panel **      0000

Variable
Action   ( X )   Display control:   Highlight control: Color only ( _ )
          ( _ )   Suppress ( _ )     _ Highlight          _____
          ( _ )   Hold ( _ )       _ Color              RED
          ( _ )   Unhold ( _ )    _ Extended attr     _____
          ( _ )   Beep ( _ )
          ( _ )   End scan ( _ )

IF NOT( _ ) _ V01      (Variable number 01)   Exactly Equal ( _ )
          -
          AND/OR ( X )   Or condition if on
          NOT ( _ ) _ MES(01,01) (Message)   Exactly Equal ( X )
          Upper - _____

SET ACT=HLT(,RED,,) IF V01 OR MES(01,01)== _____
PF1=Help PF3=Return with line PF12=Cancel line update

```

8. To provide data for our message type starting in column 1, move the cursor to the input field to the right of Upper and press ENTER. You should now see a sub-panel called Target message definition, containing the message column data:

```

FAQMENTB.m          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO Target message definition **

Look for the following message starting
between columns 01 and 01 :
_____ Generic ( X ) - X if yes

If generic requested, select from the following list:
# - match any number (0-9)
$ - match if alphanumeric
@ - match if alphabetic
% - match if not alphanumeric
& - match if a space
+ - match if any character
* - match a pattern

**** DUMMY MESSAGE TEXT ****
.....1.....2.....3.....4.....5.....6.....7....
12345678901234567890123456789012345678901234567890123456789712346

PF3=Return, PF1=1st strt col, PF2=Lst strt col, PF4=Text, PF6=Msg search

```

- Because we want to find messages with the literal string GPP starting in column 1, we do not need to specify a generic search. So remove the X from the Generic ( \_ ) field. Then, at the beginning of the underline field before Generic, type in GPP.

(To remove the rest of the underline field after GPP, move the cursor to the next column position after GPP and press your EOF key.) Press PF3 (Return). Once again on the Add/Copy panel, press ENTER to update. You should now see the following display:

```

FAQMENTB.0          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO -- CONSOLE Filter Add/Copy panel **      0000

Variable
Action   ( X )   Display control:   Highlight control: Color only ( _ )
          ( _ )   Suppress ( _ )     _ Highlight
          ( _ )   Hold ( _ )       _ Color           RED
          ( _ )   Unhold ( _ )    _ Extended attr  _____
          ( _ )   Beep ( _ )
          ( _ )   End scan ( _ )

IF NOT( _ ) _ V01      (Variable number 01)   Exactly Equal ( _ )
                  AND/OR ( X )               Or condition if on
NOT ( _ ) _ MES(01,01) (Message)           Exactly Equal ( X )
  Upper   _ 'GPP'

SET ACT=HLT(,RED,,) IF V01 OR MES(01,01)=='GPP'

PF1=Help  PF3=Return with line  PF12=Cancel line update
    
```

**Note:** The single quotes ( ' ) around the GPP string indicate that the string is a literal value.

- Make one more change to the conditions. We would want both conditions to be true for our action to be triggered, so remove the X from the AND/OR field in order to denote an AND relationship between the two conditions. Press ENTER to update, and you should now have the following complete entry definition:

```

FAQMENTB.0          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO -- CONSOLE Filter Add/Copy panel **      0000

Variable
Action   ( X )   Display control:   Highlight control: Color only ( _ )
          ( _ )   Suppress ( _ )     _ Highlight
          ( _ )   Hold ( _ )       _ Color           RED
          ( _ )   Unhold ( _ )    _ Extended attr  _____
          ( _ )   Beep ( _ )
          ( _ )   End scan ( _ )

IF NOT( _ ) _ V01      (Variable number 01)   Exactly Equal ( _ )
                  _
                  AND/OR ( _ )               Or condition if on
NOT ( _ ) _ MES(01,01) (Message)           Exactly Equal ( X )
  Upper   _ 'GPP'

SET ACT=HLT(,RED,,) IF V01 AND MES(01,01)=='GPP'

PF1=Help  PF3=Return with line  PF12=Cancel line update
    
```

11. To add this entry to the entries in console filter USER1, press PF3 (Return). You should see an updated Member Maintenance panel with the entry you have just created at the bottom of the panel:

```

FAQMENTA.3          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO -- Console Filter Member Maintenance **
Alter = 13

Filter name: USER1          CPU ID:          Delete= 7
Description: Example of filter use          Stack = 0

0010 SET V01 IF PAR=='F1' OR N/A
0011 SET ACT=HLT(,RED,,) IF V01 OR MES(1,1)=='GPP'

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add PF6=File PF10=Shift PF7=Bwd

```

12. To see all the entries in filter USER1 again, press PF4 (Top).

```

FAQMENTA.4          ** Unicenter CA-FAQS ASO Online V5.0.x **      ID=DEVTSYS3.KJM
===>
** Unicenter CA-FAQS ASO -- Console Filter Member Maintenance **
Alter = 13

Filter name: USER1          CPU ID:          Delete= 7
Description: Example of filter use          Stack = 0

0001 SET ACT=HLT(,RED,,HIG) IF MES(1,1)=='ASO>' OR N/A
0002 SET ACT=HLT(,BLU,,) IF PAR==S* OR N/A
0003 SET ACT=HLT(,RED,BLI,):END IF MES(1,5)===@@447E OR MES(1,5)===@@715+
0004 SET ACT=HLH(,YEL,REV,) IF PAR=='F1' OR N/A
0005 SET ACT=UNH IF PAR=='F1' OR N/A
0006 SET ACT=HLT(,BLU,,NML) IF PAR=='F4' OR N/A
0007 SET ACT=HLT(,TUR,,NML) IF PAR==T* OR N/A
0008 SET ACT=HLT(,WHI,,NML) IF ROU=(5,10,12,17-20,34,35,37,38) OR N/A
0009 SET ACT=HLT(,,HIG) IF LEV=(W,M,C,E) OR N/A
0010 SET V01 IF PAR=='F1' OR N/A
0011 SET ACT=HLT(,RED,,) IF V01 AND MES(1,1)=='GPP'

A=Add, L=Delete, C=Copy, M=Move, X=Expand, "=Dup, F(A), P(A)
PF1=Help PF3=Return PF4=Top PF5=Add PF6=File PF10=Shift

```

- To save the changes you have made to filter USER1, press PF6 (File).



# Index

## \$

---

\$JOBACCT  
displaying, 4-3  
explanation, 4-4

## A

---

Accessing  
default console display, 2-3  
IMODs, 4-3  
Unicenter CA-FAQS ASO, 2-2

Action file, definition, 3-2

Action, console, 5-5

Actions  
definition, 3-2  
editing, 3-7

## B

---

Browsing a print queue member, 2-15

## C

---

Color, console, 5-7

Console action, 5-5

Console commands  
to execute \$JOBACCT, 4-10  
to execute your own IMOD, 4-12

Console display  
default, 2-3  
scrolling, 2-12  
split screen, 2-10  
standard, 2-10  
timed redisplay, 2-13  
window, 2-12

Console Filter Add/Copy panel, 5-5

Console Filter Member List panel, 5-3

Console Filter Member Maintenance panel, 5-4

Console filtering  
accessing, 5-2  
Add/Copy panel, 5-5  
color selection, 5-7  
console action defined, 5-5  
console condition defined, 5-12  
filter defined, 5-2  
filter entry defined, 5-2  
filter entry example, 5-4  
filter type selection, 5-9  
highlighting, 5-6  
introduction, 5-1  
Member List panel, 5-3  
Member Maintenance panel, 5-4  
variable defined, 5-8

Creating  
a user security definition, 2-4  
action files, 3-2  
actions, 3-2  
IMODs, 4-12

Current system console display  
automatic scrolling, 2-12  
split screen, 2-10  
standard console, 2-10  
window with task status, 2-12

CURSORM command, displaying message  
explanations, 2-29

---

## D

---

Default console display, 2-3

### Defining

- console commands, 3-13
- user security definition, 2-4

### Displaying

- current system console, 2-10
  - as a split screen, 2-10
  - as a standard console, 2-10
  - as a window with task status, 2-12
  - with automatic scrolling, 2-12
- POWER queue information, 2-14
- POWER queue members
  - print queue members, 2-15
  - reader queue, 2-17
- system console, 2-9

---

## E

---

Editing a POWER reader queue member, 2-18

### Executing a sample IMOD

- from a console command, 4-10
- from an online command, 4-7

---

## F

---

### Filtering, console

- accessing, 5-2
- Add/Copy panel, 5-5
- color selection, 5-7
- console action defined, 5-5
- console condition defined, 5-12
- filter defined, 5-2
- filter entry defined, 5-2
- filter entry example, 5-4
- filter type selection, 5-9
- highlighting, 5-6
- introduction, 5-1
- Member List panel, 5-3
- Member Maintenance panel, 5-4
- variable defined, 5-8

---

## G

---

Generic characters, 4-4

---

## H

---

Help REXX online, 4-6

Highlighting the console, 5-6

---

## I

---

### IMODs

- accessing, 4-3
- CA-supplied, 4-2
- creating, 4-12
- defining, 4-2
- executing a sample
  - from a console command, 4-10
  - from an online command, 4-7
- programming guidelines, 4-2

Initializing security, 2-7

---

## M

---

### Managing

- action files, 3-2
- actions, 3-2

### Message

- explanations, displaying, 2-29

---

## O

---

Online commands and IMODs, 4-7

OP command, 2-13

Operator mode, 2-13

---

## P

---

### POWER

- commands, 2-20
- print queue member, browsing, 2-15
- queue displays, 2-14, 2-15
- reader queue member, editing, 2-18

Print queue member, browsing, 2-15

## R

---

Reader queue member, editing, 2-18

Replying to a message, 3-10

### REXX

- background, 4-1
- CA REXX, 4-1
- online help, 4-6

## S

---

Scrolling console display, 2-12

SCTY command, 2-4

### Security

- and POWER queue information, 2-17
- initializing, 2-7
- SCTY command, 2-4
- setting up, 2-4
- user definition, 2-4

Setting console timed redisplay, 2-13

Setting up security, 2-4

Split screen console display, 2-10

## T

---

Timed redisplay, entering, 2-13

## U

---

User security definition, 2-4

## V

---

Variable, in console filtering, 5-8