

# CA View<sup>®</sup>

## User Guide

Release 12.2



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## CA Technologies Product References

This document references the following CA Technologies products:

- CA Balancing™
- CA Connect™
- CA Deliver™
- CA Output Management Document Viewer
- CA Spool™

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# Contents

---

Chapter 1: Introduction	13
Overview .....	13
Who Should Read This Guide? .....	14
Conventions Used in This Guide.....	14
Getting Started .....	15
The Logo Screen .....	15
Display Screen .....	16
Commands .....	16
System-Wide Commands .....	17
Program Function (PF) Keys .....	23
Online Tutorial.....	24
Output Management Interface .....	25
Accessing Output Management Reports .....	25
Introducing the Online Retrieval Process.....	25
Introducing Basic Elements .....	26
Report ID (REPORT ID).....	27
Chapter 2: User Modes: Initiating Output Retrieval	29
User Modes .....	30
Panels .....	31
Long and Short Panels.....	32
Main Menu Panels .....	33
Sysout Selection Panels.....	34
JOB Selection Panels .....	37
Feature 15 Panels.....	37
Primary Selection Panels .....	38
ALL Mode .....	38
EXPO Mode: Beginner .....	39
EXPO Mode: Advanced .....	39
EXP Mode: Beginner.....	40
EXP Mode: Advanced .....	41
JOB Mode .....	42
SARO Mode .....	43
SAR Mode.....	43
Primary Selection Criteria .....	44
Cross-Report Indexing .....	49

---

Xerox or AFP Reports and Cross-Report Indexing .....	49
Selecting by Index or Report .....	50
Cross-Report: SELECT BY INDEX .....	51
Cross-Report: SELECT BY REPORT .....	55
Bypassing Panels .....	58
The SELECT Command .....	59
Examples for Finding Output .....	60
Changing Modes with the MODE Command .....	66

## Chapter 3: Selecting and Retrieving Reports 69

User Modes and Output Selection Lists .....	71
Using Sorting and Filtering .....	71
Selection List Sorting .....	72
Selection List Filtering .....	74
Selecting Data with Selection Codes .....	78
The Sysout Selection List in ALL Mode .....	79
Field Descriptions .....	79
Sysout Selection List: Example 1 .....	82
Sysout Selection List: Example 2 .....	83
Sysout Selection List: Example 3 .....	84
Sysout Selection List: Example 4 .....	86
Sysout Selection List: Example 5 .....	87
Sysout Selection List: Example 6 .....	88
Selecting Output for Retrieval—ALL Mode .....	89
Valid Selection Codes and Descriptions .....	90
Expanded Retention Option and Valid Selection Codes .....	92
The Sysout Selection List in SAR(O) Mode .....	93
Field Descriptions .....	94
Sysout Selection List: Example 1 .....	94
Sysout Selection List: Example 2 .....	95
Sysout Selection List: Example 3 .....	96
Sysout Selection List: Example 4 .....	97
Sysout Selection List: Example 5 .....	98
Sysout Selection List: Example 6 .....	99
Selecting SYSOUT for Retrieval—SAR(O) Mode .....	99
Valid Selection Codes and Descriptions .....	100
SAR(O) Selection Codes .....	102
Expanded Retention Option and Valid Selection Codes .....	103
The Report Selection List in EXP(O) Mode .....	104
Field Descriptions .....	105
Report Selection List: Example 1 .....	105

---

Report Selection List: Example 2 .....	107
Report Selection List: Example 3 .....	107
Report Selection List: Example 4 .....	108
Report Selection List: Example 5 .....	109
Report Selection List: Example 6 .....	110
Report Selection List: Example 7 .....	111
Selecting Reports for Retrieval—EXP(O) Mode .....	112
Valid Selection Codes and Descriptions .....	112
EXP or EXPO Selection Codes .....	114
Expanded Retention Option and Valid Selection Codes .....	116
JOB Selection List in JOB Mode .....	117
Retrieving Jobs in Job Mode .....	119
Using the Selection List Commands .....	121
CONFIRM Command .....	121
LOCATE Command .....	123
REDISPLAY Command .....	124
SUBMIT Command .....	124

## Chapter 4: Loading and Deleting Output 127

Load Output to Disk .....	127
Delete the Output .....	128
Use the Confirm Delete Panel .....	128

## Chapter 5: Browsing Output 129

Logical Views and Browsing .....	130
Selection Codes for Browsing .....	131
Choosing a Logical View for Browsing .....	132
Field Descriptions .....	133
Using the View Selection Menu .....	134
When Is the View Selection Menu Displayed? .....	134
Page Index Selection Lists .....	135
Accessing Output for Browsing .....	135
The Browse Facility Display Screen .....	137
Using Browse Labels .....	138
Setting and Locating Labels .....	138
Label Rules .....	138
Browsing Data Sets for a SYSOUT Group or Job .....	139
Browse Commands .....	141
COLUMNS Command .....	142
FIND Command .....	143
FIND and Special Strings .....	144

---

FIND: Column Selection.....	148
FIND: Direction Parameters .....	149
FIND: Limiting the Strings.....	153
FIND: Messages.....	156
FIND: Syntax Rules .....	156
ANNOTATE .....	156
BOOKMARK .....	157
EMAIL (or E).....	157
FILTER .....	157
GOTO Command .....	157
HEX Command .....	158
JPRT (or J).....	158
LIMIT Command .....	159
LOCATE Command .....	159
MARK Command.....	160
NEXT .....	161
PREV .....	161
PRT (or P).....	161
RESET Command .....	162
RFIND Command.....	162
VIEW Command .....	162
WHERE .....	162
Browsing AFP Reports on 3270 Non-Graphics Terminals .....	163
Invoking the 3270/AFP Browser.....	163
Finding Pages and Text.....	163
Limitations of 3270 AFP Browsing.....	164
Assigning Color to Reports and Online Panels .....	165
Creating and Using Filters .....	165
Types of Filters .....	165
Defining a Filter .....	166
Filter Definition Selection List .....	167
Filter Definition Specifications .....	167
Filter Commands .....	169
Security Considerations .....	171
Filter Examples .....	172
How to Create and Use Filters .....	177
Annotations and Bookmarks .....	186
Browsing a Report Using Annotations and Bookmarks.....	187
Annotation Sections .....	187
Public and Private Annotations.....	188
Annotations for Views.....	188
Archiving Annotations.....	188



---

Deleting and Restoring Reports .....	188
Using Bookmarks and Annotations .....	189
Annotation and Bookmark Commands .....	190
Annotation/Bookmark Selection List .....	192
Annotation Definition Panel.....	194
How Annotations Are Stored .....	195
Annotation Definition Panel.....	196

## Chapter 6: Printing Output 199

Online and Batch Printing—P and J Commands.....	200
Accessing Output on Disk and Tape for Printing: Considerations .....	201
Using the P and J Commands .....	201
Specifying a Printer Device—DEST Print Attribute.....	210
Identifying Printer Devices .....	211
The EXTERNAL Print Interface .....	212
EXTERNAL Printing—JES Data Set Interface .....	213
EXTERNAL Printing—Dynamic Program Call .....	215
Print Attribute Panels.....	216
Main Print Attribute Panel .....	217
Main CA Deliver Reprint Attribute Panel .....	222
Print Attribute Selection Codes.....	226
Optional Print Attribute Panels—SAR Mode.....	231
Optional Print Attribute Panels—EXP Mode.....	233
Print Output Parameters .....	235
Reprinting Output Management Bundles .....	244

## Chapter 7: Emailing Output 247

How to Email Output.....	247
--------------------------	-----

## Chapter 8: Creating Logical Views 253

Native and Logical Views.....	253
Native Views.....	253
Logical Views .....	255
Creating Logical View Definitions—Overview .....	258
How to Create Logical Views Using the View Definition Panel .....	259
Using the View Definition Panel to Create Logical Views.....	267
Accessing the View Definition Panel from the Primary Panel.....	268
Accessing the View Definition Panel from a Panel Other Than the Primary Panel.....	268
Accessing the View Definition Panel from Browse .....	269
The Primary View Definition Panel .....	270

---

Primary View Definition Example.....	277
Specifying Primary Headings .....	277
Accessing the Primary Heading Specifications Panel .....	278
The Primary Heading Specifications Panel .....	278
Primary Heading Specifications Example .....	280
Specifying Columns .....	280
Accessing the Column Specifications Panel .....	281
The Column Specifications Panel .....	281
Column Specifications Example .....	284
Specifying Column Headings .....	285
Accessing the Column Heading Specifications Panel .....	285
The Column Heading Specifications Panel .....	286
Column Specifications Example .....	288
Specifying and Accessing Page Indexes.....	289
How to Specify Search Criteria and Create Page Index.....	290
AFP and Xerox Reports and Cross-Report Indexing .....	295
PDF Reports and Page Indexing .....	296
Extracting Index Data .....	296
Accessing the Page Indexing Criteria Panel.....	298
The Page Indexing Criteria Panel.....	299
Page Indexing Criteria Example.....	305
Accessing the Page Index Selection List .....	308
Creating the Page Indexes: Online and Batch .....	309
Creating a Page Index—the I Command .....	310
Modifying and Creating Page Indexes.....	311
Specifying Colors .....	311
Accessing the Alternating Color Panel .....	311
The Alternating Color Specification Panel.....	312
Using VIEW COLS Mode to Create Logical Views .....	313
Accessing the VIEW COLS Mode from Browse.....	313
Using the VIEW COLS Mode .....	317
Example of the VIEW COLS Mode .....	320
Determining Cursor Position—the WHERE Command.....	320
Guidelines for Using the WHERE Command .....	320
Using the WHERE Command.....	321
WHERE Command Examples.....	322

## Chapter 9: System Administration: Defining Online Specifications 325

Overview .....	325
Administration Panels and Commands .....	326
Master Authority and Administration .....	326

---

Define and Add Users Online .....	327
Field Descriptions .....	328
Add and Delete Users Online .....	330
ADD Command .....	331
DELETE Command .....	331
Add and Modify Users in Batch .....	332
Private Reports: SYSOUT/DIST ID Relationships .....	332
DEF SYSOUT and DEF DIST ID .....	333
Define DIST IDs for a SYSOUT ID Online .....	333
Access the Sysout Definition Selection List .....	334
The Sysout Definition Selection List .....	334
Use the Define SYSOUT Input Commands .....	336
Access the Sysout Definition Specifications Panel .....	337
Sysout Definition Specifications Panel .....	337
Cancel and Copy the Definitions .....	340
CANCEL Command .....	340
COPY Command .....	340
Define SYSOUT IDs for a DIST ID Online .....	341
Access the Distribution Definition Selection List .....	342
Use the Define DIST Input Commands .....	344
Distribution Definition Specifications Panel .....	346
Use the Distribution Definition Specification Panel Commands .....	348
Define SYSOUTS and DIST IDs in Batch .....	349
View Database Statistics Online .....	350
Field Descriptions .....	350
Actions to Take on the Database .....	351
Initialize the Values for the Database Status Panel .....	351
Define and Add Output Devices .....	351
Define Devices .....	352
Add a Device Definition .....	353
Use Selection Codes When Defining Devices .....	354
Use the Define Device Input Commands .....	355
Define CA Spool Printer Attributes .....	357
Field Descriptions .....	357
Define External Printer Attributes .....	359
Field Descriptions .....	360
Define JES Printer Attributes .....	360
Field Descriptions .....	361
Define VTAM Attributes .....	361
Field Descriptions .....	362
Define Logical Views .....	363
Access the View Selection List .....	364

---

---

Selection Codes for View Selection List .....	365
Use the View Selection List Input Commands.....	366
Access the View Definition Panel.....	369
<b>Chapter 10: Displaying and Deleting Database Elements</b> .....	<b>373</b>
Display Command .....	373
Display Selection Panel .....	374
Command Stacking.....	374
Browse Labels.....	375
Rules for Specifying Labels .....	375
Set a Label .....	375
Browse Commands.....	376
FIND Browse Command .....	377
RFIND Browse Command .....	383
Display and Delete Banner Pages from the Database.....	384
Display and Delete Online Panels from the Database.....	387
<b>Index</b> .....	<b>391</b>

# Chapter 1: Introduction

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Welcome to CA View®, a SYSOUT archival and retrieval system that stores computer output on either DASD or tape and retrieves the output on demand.

This section contains the following topics:

[Overview](#) (see page 13)

[Who Should Read This Guide?](#) (see page 14)

[Conventions Used in This Guide](#) (see page 14)

[Getting Started](#) (see page 15)

[Commands](#) (see page 16)

[Program Function \(PF\) Keys](#) (see page 23)

[Online Tutorial](#) (see page 24)

[Output Management Interface](#) (see page 25)

[Introducing the Online Retrieval Process](#) (see page 25)

[Introducing Basic Elements](#) (see page 26)

## Overview

CA View performs the following main functions:

- Stores (archives) job SYSOUT and reports based on user specifications
- Retrieves archived output, making it available for online viewing, printing on multiple printers, or manipulation with assorted utilities and facilities

CA View can help manage the following classes of data:

- Production JCL listings
- Production SYSOUT
- CA Deliver Output Management (CA Deliver) reports
- SYSLOG data

CA View retains all classes of data for any length of time on disk or tape and automatically archives production JCL listings and messages. CA View scans for exceptional conditions as SYSOUT is being produced.

You can retrieve archived SYSOUT or reports for browsing, printing, or other functions, by using the online retrieval facility. Use the display screens, commands, and the output selection codes that are part of the output process to work with your retrieved information.

## Who Should Read This Guide?

The concepts and procedures in this guide are targeted primarily to the end user. We have also included a chapter for the System Administrator that explains how to define the online system.

This guide assumes you are familiar with IBM computer system terms and concepts. We also expect users of this product to have a working knowledge of MVS online facilities, such as ISPF, since the product's panels behave in a similar fashion.

## Conventions Used in This Guide

This section explains the conventions used to present information in this guide. We recommend that you take the time to familiarize yourself with these conventions.

### Commands and Parameters

Commands and parameters are shown in this font. Enter these examples in CA View exactly as shown.

### Variables

Italic text shown with a command indicates a user-defined variable. For example, in place of the variable *printer-id data*, you might enter VPS.JESDS.

### Commands

Commands you can issue are presented in uppercase letters. For example:

- HELP
- SELECT

The word Enter represents the following keys on your keyboard:

- ENTER, Enter, or enter
- RETURN, Return, or return

### PF Keys

Programmable function keys, or PF keys, are represented by the uppercase letters PF, followed by one or two digits, as shown in these examples:

- PF 1
- PF 12
- **Note:** On most keyboards, PF keys are located either at the top or to the right side of the main part of the keyboard. PF keys are usually marked PF or simply F followed by a digit (for example, PF 1 or F1).

## Getting Started

This section describes the CA View environment.

### The Logo Screen

The logo screen is the first screen to appear when you log on to the standard CA View system. To see the first menu, press Enter when the logo screen is displayed.

## Display Screen

The format of the top three lines in all display screens is consistent throughout the online facility. These lines are called *header lines*. This illustration displays the header lines:

System Name Mode	Screen Title	Short Message
Command/Option		Scroll
Long Message		

The screen display areas for the three header lines are described below:

**System Name**

Displays the CA View system name

**Mode**

Indicates the current user mode

**Screen Title**

Identifies the function being performed

**Short Message**

Displays a short explanation of an error condition, if one exists

**Command/ Option**

Identifies the area for entering commands

On a help or tutorial screen, enter either a command or an option.

**Scroll**

Displays the current scroll amount whenever scrolling is applicable

You can change the scroll amount by overtyping with a new value.

**Long Message**

Displays an explanation of the error condition upon request (by entering the HELP command)

This line might contain data that is temporarily overlaid by a long message.

## Commands

A *command* is a request for the product to perform an operation or execute a program. Commands enable you to perform all the product functions.

Enter commands on the command line, then press Enter.



---

## System-Wide Commands

You can use the following system-wide commands on any product menu or panel:

- CURSOR command
- END command
- HELP command
- JUMP function
- KEYS command
- RETRIEVE command
- RETURN command
- UP, DOWN, LEFT, and RIGHT scroll commands

### Invoking System-Wide Commands

Do one of the following to invoke a system-wide command:

- To perform a function by manually using a system-wide command, enter the command on the command line, and press Enter.
- To perform a function automatically, press the corresponding PF key.

### CURSOR Command

The CURSOR command repositions the cursor on the panel being displayed as follows:

- If you invoke the CURSOR command once, the cursor moves to the command line on the panel being displayed.
- If you invoke the CURSOR command twice on a panel with scrollable data, the cursor moves the amount designated in the SCROLL field.

The CURSOR command can only be invoked when it is activated by a PF key.

### END Command

The END command, invoked from any product menu, terminates the current function with the following exceptions:

- If you invoke the END command on a help or tutorial panel, the selection panel from which HELP was requested is redisplayed.
- If you invoke the END command while viewing the Primary Selection panel, your current CA View online session is terminated.

## HELP Command

The HELP command displays information about the current function of the panel as follows:

- Invoke the HELP command *once* when a short message is displayed to display a longer message in the long message field.
- Invoke the HELP command *twice* when a short message is displayed to enter the tutorial mode.
- Invoke the HELP command in a panel where no message is displayed to enter the tutorial mode with the appropriate subject matter displayed.

## JUMP Function

The JUMP function allows you to jump from one screen to another, bypassing the Primary Selection panel and intermediate panels.

To issue a jump request from any CA View menu, enter an equal sign followed by any command that is valid on the Primary Selection panel.

**Note:** Enter this information on the command line.

### Example

To display a SYSOUT selection list for all generations of SYSOUT from any CA View menu, you can immediately jump through the Primary Selection panel and issue a SYSOUT Selection ALL command with the following command:

```
COMMAND ==> =s all
```

The result is the same as if you:

- Repeatedly entered END commands through all intermediate menus until the Primary Selection panel was displayed.
- Entered the SYSOUT selection command ALL.

## KEYS Command

To view or change your PF key definitions, do the following:

1. Enter the KEYS command from any display without terminating the current function being performed.
2. Change key definitions by overtyping the values shown in the appropriate fields.

This is a sample of the screen that appears when you issue the KEYS command.

```
PF Key Definitions and Labels – Primary Keys
Command ==>

Number of PF Keys . . . 24                Terminal type . . 3278
Enter "/" to select . .                    (Enable EURO sign)

PF1 . . . HELP
PF2 . . . SPLIT
PF3 . . . END
PF4 . . . RETURN
PF5 . . . RFIND
PF6 . . . RCHANGE
PF7 . . . UP
PF8 . . . DOWN
PF9 . . . SWAP
PF10 . . LEFT
PF11 . . RIGHT
PF12 . . CURSOR

PF1 label . .          PF2 label . .          PF3 label . .
PF4 label . .          PF5 label . .          PF6 label . .
PF7 label . .          PF8 label . .          PF9 label . .
PF10 label . .         PF11 label . .         PF12 label . .

Press ENTER key to display alternate keys. Enter END command to exit.
```

**Note:** Only 12 PF keys at a time are shown on this panel. To view the definitions for PF keys 13 through 24, press Enter.

This is a sample of the screen that appears when you issue the KEYS command under ISPF:

```
PF Key Definitions and Labels – Alternate Keys
Command ==>

Note: Definitions and labels below apply only to terminals with 24 PF keys.

PF13 . . HELP
PF14 . . SPLIT
PF15 . . END
PF16 . . RETURN
PF17 . . RFIND
PF18 . . RCHANGE
PF19 . . UP
PF20 . . DOWN
PF21 . . SWAP
PF22 . . LEFT
PF23 . . RIGHT
PF24 . . CURSOR

PF13 label . .      PF14 label . .      PF15 label . .
PF16 label . .      PF17 label . .      PF18 label . .
PF19 label . .      PF20 label . .      PF21 label . .
PF22 label . .      PF23 label . .      PF24 label . .

Press ENTER key to display primary keys. Enter END command to exit.
```

**Note:** Only PF keys 13 through 24 are shown on this panel. To view the definitions for PF keys 1 through 12, press Enter.

To return to the function you were performing when you entered the KEYS command:

- Enter the END command in the PF Key Definitions and Labels panel.

### RETRIEVE Command

The RETRIEVE command can be invoked from any menu. This command retrieves the last command that was entered. Up to 16 commands are saved.

Each time you enter the RETRIEVE command, the previous command is displayed. For example, to display a command that you entered four commands previously, invoke RETRIEVE four times.

### RETURN Command

To return to the Primary Selection panel from any menu bypassing all intermediate level panels, issue the RETURN command from any menu.

Invoking the RETURN command from the Primary Selection panel terminates the current CA View online retrieval session.

**Note:** The JUMP function performs an implicit RETURN.

## SCROLL Commands

Use the scroll commands to move data on the screen whenever the amount of data exceeds the boundaries of a single screen. The SCROLL commands are:

### **UP**

Scrolls towards the top of the data

### **DOWN**

Scrolls towards the bottom of the data

### **LEFT**

Scrolls towards the first column of the data

### **RIGHT**

Scrolls towards the last column of the data

When you enter a SCROLL command, the SCROLL field determines the number of lines or columns scrolled on screen.

You can temporarily override the value in the SCROLL field by entering a number with the SCROLL command.

Do one of the following to scroll down ten lines:

- Enter *down 10* on the command line and press Enter.
- Enter *10* on the command line and press the DOWN PF key.

## Changing the SCROLL Field

To change the scroll amount, replace the value in the SCROLL field with a new one.

After you enter a new scroll amount, it remains in effect until you change it again.

**Note:** Changes are saved from one session to the next.

## Valid Scroll Amounts

The following are valid scroll amounts:

**PAGE or P**

One page

**HALF or H**

Half a page

***nnnn***

1 to 9999 lines

**CSR or C**

To the cursor position (if the cursor is within the data), or one page (if the cursor is outside the data)

**MAX or M**

To the top, bottom, left, or right margin

**DATA or D**

n One page minus one line when scrolling up or down

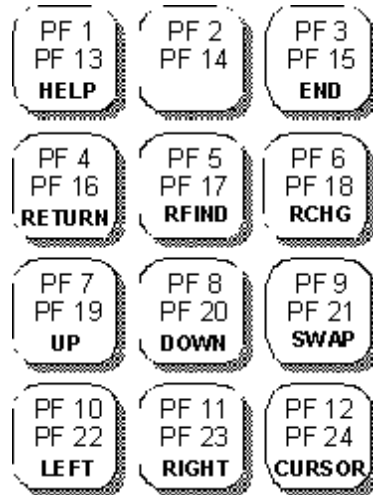
n One page minus one column when scrolling left or right

**Note:** When scrolling, a *page* is the amount of data visible on the screen.

## Program Function (PF) Keys

*PF keys* are keys that automatically invoke commands based on preset functions.

The following diagram represents the standard PF key structure. Keys are labeled by name (for example, 1/13 is either PF key 1 or PF key 13). Some keys are also identified with their default definitions, which correspond to system-wide commands. UP, DOWN, LEFT, and RIGHT are SCROLL commands.



Pressing a PF key that is defined as a command is the same as entering that command. Also, as with commands, you can enter data as parameters in conjunction with PF key usage. To do this, enter the parameter data on the command line, then press the appropriate PF key.

**Note:** If the command exceeds 48 characters in length, only the first 48 characters will be used.

### Example

With PF 8 defined as DOWN, if you type 20 on the command line and press PF 8, the results are exactly the same as if you had typed DOWN 20 on the command line and pressed Enter.

## Online Tutorial

The system provides a tutorial for the online retrieval facility. To enter the tutorial from any panel in the online retrieval facility, enter the system-wide HELP command or press the HELP PF key, PF 1/13.

- To view information about the current function, enter the HELP command from the panel in question.
- To access the main panel of the online tutorial, enter the UP command (or press PF 7/19) until the main panel is displayed.

### Example of an Online Tutorial

```
Tutorial ----- CA View Sysout Retrieval ----- Tutorial
Option ==>
```

```
-----
|          CA View nn.n          |
|          General Information    |
|-----|
```

CA View is the retrieval component of the CA family of automated output management products. It allows you to retrieve and browse or print previously archived SYSOUT. Initially, you provide criteria for selection of archived SYSOUT to be made available to you. You may then scroll through the list of available SYSOUT via the Scroll commands and, by entering the appropriate selection character on the desired entry, select SYSOUT for browsing or printing.

If your selection requires the SYSOUT to be online and it no longer resides on disk, it will automatically be loaded to disk from tape. Alternatively, you may request that a background job be submitted to reload it to disk.

The following topics are presented in sequence or may be selected by number:

- |                           |                              |
|---------------------------|------------------------------|
| 1 - Display format        | 4 - DEFine commands          |
| 2 - Commands and PF keys  | 5 - Dynamic allocation codes |
| 3 - Process MODE commands | 6 - STATUS command           |



## Output Management Interface

CA View can retrieve reports produced through CA Deliver. You can access these reports with the same functions that CA View provides for regular CA View SYSOUT.

By specifying archival criteria of DIRECT in the ARCH (archive) field of the Report Definition Attribute panel of CA Deliver, reports created in CA Deliver are sent directly to CA View.

**Note:** For more information about ARCH, DIRECT, the ARCH initialization parameter, and other report archival criteria, see the *CA Deliver Installation Guide* and the *CA Deliver Reference Guide*.

### Accessing Output Management Reports

To access CA Deliver reports, use one of the following CA View online processing modes:

- CA Deliver mode (EXP)—report viewing and printing for the end user
- CA Deliver Operations mode (EXPO)—report viewing and printing for the operations or production control user
- ALL mode (ALL)—report viewing and printing for the master user

**Note:** For more information about processing modes, see the chapter "User Modes: Initiating Output Retrieval."

### Introducing the Online Retrieval Process

The online system allows you to:

- Decide what output you want to retrieve
- Describe your output to CA View
- Specify the action you want to take with that output

CA View provides a series of panels and selection lists to facilitate these tasks.

## Introducing Basic Elements

This list introduces some basic terms.

### **Distribution ID (DIST ID)**

The 1- to 32-character name assigned to a distribution point

Reports archived from CA Deliver have a DIST ID automatically linked to them. SYSOUT (not from CA Deliver) must be assigned a DIST ID by a CA View system administrator.

### **Report ID (REPORT ID)**

A 1- to 32-character name assigned to an individual archived report originating from CA Deliver

The REPORT ID is assigned at the time the report is processed by CA Deliver.

**Note:** For more information about valid characters, see the table in the next section.

### **SYSOUT Group**

One or more SYSOUT data sets with the same SYSOUT ID (see below)

An example is multiple data sets that are all products of one job (JOB name or JOB statement).

### **SYSOUT ID**

The 1- to 32-character name assigned to a SYSOUT group.

**Note:** For more information about valid characters, see the table in the next section.

## Report ID (REPORT ID)

A Report ID can contain alphanumeric and the following special characters:

**Period**

.

**Dollar**

\$

**Pound or Hash**

#

**At the rate of**

@

**Percent**

%

**Dash or Hyphen**

-

**Cent**

¢

**Exclamation Mark**

!

**Slash**

/

**Underscore**

\_

The following special characters were added in Version 12.0:

**Blank**

**Less than**

<

**Left Parentheses**

(

**Plus**

+

**Vertical Bar**

| (hex 4F)

**Logical Not**

¬ (hex 5F)

**Broken Bar**

⋮ (Hex 6A)

**Ampersand**

&

**Right Parentheses**

)

**Colon**

:

**Semicolon**

;

**Greater than**

>

**Comma**

,

**Single quote**

'

**Double quote**

"

**Equal to**

=

**Question Mark**

?

**Note:** A report ID cannot start with a blank.

# Chapter 2: User Modes: Initiating Output Retrieval

---

This chapter describes the following:

- The user modes that control the reports a user can access
- The Primary Selection and Primary Selection Criteria panels
- Cross-report indexing
- Report selection using the SELECT command

CA View selects archived system output for viewing or printing. This output can include both CA View archived SYSOUT and reports that originate from CA Deliver.

Because CA View has such powerful output selection capabilities, the amount of available data can be quite large. To help you manage this potentially large amount of data, CA View groups users by the type of output they need and restricts the available output accordingly. When a user selects data, only the data pertinent to that user is displayed.

CA View relates groups of users to corresponding online *user modes*:

- Each of these user modes represents a specific group of data within your entire set of archived data.

When you enter the CA View system, the Primary Selection panel displays your user mode in the upper-right corner of the menu.

- Each user mode has its own Primary Selection panel.

These panels are slightly different, but they all have the same basic functions. Your entry mode and the other modes you can access depend on the way your system administrator has defined your access capability.

This section contains the following topics:

[User Modes](#) (see page 30)

[Panels](#) (see page 31)

[Primary Selection Panels](#) (see page 38)

[Primary Selection Criteria](#) (see page 44)

[Cross-Report Indexing](#) (see page 49)

[The SELECT Command](#) (see page 59)

[Examples for Finding Output](#) (see page 60)

[Changing Modes with the MODE Command](#) (see page 66)

## User Modes

This section explains the user modes: ALL, EXPO, EXP, JOB, SARO, and SAR. These modes let you access SYSOUTs, reports, and jobs for viewing, printing, and emailing. Two of these modes (EXP and SAR) handle private SYSOUT groups and reports.

A *private* SYSOUT group or report has one or more distribution identifiers (DIST IDs) linked to it. Only users who have linked DIST IDs can access that data. *Private report viewing* is the ability to verify DIST IDs of online users before the report selection lists are displayed. This ability provides a security level of the displayed selection list for users.

### **ALL Mode**

Lets you retrieve any archived SYSOUT or any archived CA Deliver reports. No SYSOUTs or reports are restricted, unless by other security (for example, RACF).

### **EXPO Mode**

Specifies CA Deliver Operations (EXPO) mode. Use this mode to access all reports archived from CA Deliver. Archived reports initially processed in CA View are not available through this mode.

### **EXP Mode**

Specifies CA Deliver (EXP) mode. Use this mode to access reports that have been archived from CA Deliver and that are available to your distribution identifier (DIST ID). Archived SYSOUT initially processed in CA View is not available through this mode. With data in one or more of the selection criteria fields, press Enter to display a list of all CA Deliver reports that have characteristics matching the data you entered and are available to your DIST ID.

### **JOB Mode**

Lets you access all archived SYSOUT for each occurrence of each job.

To obtain a list of all jobs that match your selection criteria, type data in one or more of the JOB mode selection criteria fields and press Enter.

Important considerations follow for JOB mode:

- Reports are viewable if they were archived via SARSTC, SARFSS text collector, SARXTD, or SARDBB.
- Binary, AFP, PDF, Xerox, and CA Deliver reports are not viewable.
- JOB mode access is not available through CA OM Web Viewer. A user can log off from CA View in JOB mode from the mainframe and later attempt to access CA View again through CA OM Web Viewer. In that case, CA View checks the mode access indicators for the user and assigns the first mode that permits access. If the user is authorized for JOB mode only, access is denied with this message in CA OM Web Viewer: "Userid denied. JOB mode access only. Contact your CA View Administrator." The message prefix in the CA DRAS log is CAHADOP08.

- Security cannot be based on dataset or DD name. Security rules are applied on the Job selection list only, in conjunction with report level security. For more information about security, see the *Best Practices Guide* and the *Reference Guide*.
- Bookmarks and Annotations work at the DD level. However, they do not work when you view the complete job.
- Cross report indexing is not supported.
- You can use logical views to browse jobs; however, logical views are not applied for the initial browse.
- SMF records are not created for JOB mode functions. However, in SMF logon and logoff records, the indicator is updated correctly to show that the user was in JOB mode.

**SARO Mode**

Specifies SAR Operations (SARO) mode. Use this mode to access all archived SYSOUT. Reports archived from CA Deliver are not available through this mode.

**SAR Mode**

Lets you access only archived SYSOUT groups that are available to your distribution identifier (DIST ID). Archived reports initially processed in CA Deliver are not available through this mode. With data in one or more of the selection criteria fields, press Enter to display a list of all SYSOUT that has characteristics matching the data you entered and is available to your DIST ID.

**Note:** For more information about assigning mode access to users, see the chapter "System Administration: Defining Online Specifications."

## Panels

Beginning with Release 11, CA View is able to have 32-character report identifiers. The panels displaying the long report IDs will display fewer columns on the Sysout Selection List.

## Long and Short Panels

A feature was added to allow the use of the traditional CA View 2.0 Panels.

- The traditional 2.0 panels are referred to as *Short Panels*.
- The default panels with the 32-character report ids are referred to as *Long Panels*.

Long and short panels can be used globally or on a user-by-user basis. The global setting can be used by setting the LANGUAGE=Initialization Parameter. The default setting for this parameter is 'R' (English). Changing the language modifier to 'RS' will globally set the short panels as default for all users.

Each User Profile has a language parameter 'DEF USER LANGUAGE='. The default language is based on the Initialization Parameter but each user can override that specification with the Define User LANGUAGE parameter. If the default language was RS, a specific user can be defined with LANGUAGE=R so all users would default to the Short Panels, but one specific user would have the Long Panels.

**Note:** The HELP PANEL command always shows the Long Panel Name. Short Panels are implemented as a 'Language Modifier' and the Help Sub-system cannot see that setting and always displays the Long Panel name even when a short panel is being displayed.

There are two basic sets of Long and Short Panels. One set is used for the Main Menu and the second set is used for the Sysout Selection List.

The panels used for the Sysout Selection list are easily determined to be Short or Long by the number of columns reserved for the Report Id column. The Main Menu panels are not easily determined by viewing, however entering data in the Report Id field determines if the panel displayed is a short or long panel.

- If you can enter more than 12 characters, it's a long panel.
- if you can only enter 12 characters, it's a short panel.

So, if you were on the Main Menu and entered the HELP PANEL command, which showed the panel as SARP1 but was only able to enter a 12-character report id, then the real panel name is SARS1 (See the charts below).



## Main Menu Panels

CA View provides the following panels:

- Short and Long Main Menu panels for the following User Modes: ALL, SAR, SARO, EXP, and EXPO. The English names for these panels appear in the following table.
- Long Main Menu panel for JOB mode
- User Level panels (Basic and Advanced) for EXP and EXPO User Modes

<b>Mode/User Level</b>	<b>Long Panel</b>	<b>Short Panel</b>
ALL Mode	SARP1	SARS1
EXPO Mode Basic User	SARP1A	SARS1A
EXPO Mode Advanced User	SARP1AA	SARS1AA
EXP Mode Basic User	SARP1B	SARS1B
EXP Mode Advanced User	SARP1BA	SARS1BA
JOB Mode	SARP1J	none
SARO Mode	SARP1C	SARS1C
SAR Mode	SARP1D	SARS1D

## Sysout Selection Panels

CA View provides Short and Long Sysout Selection Panels for each of the following User Modes: ALL, SAR/SARO, and EXP/EXPO.

**Note:** The Sysout Selection Panels used when Feature 15 is enabled consists of only one set similar to the ALL Mode Short Panels.

### ALL Mode Long Panels

#### SARP2A1

Sysout ID, Arch Date/Time, Loc, Lines, and Pages

#### SARP2A2

Sysout ID, Jobname, Jobid, Gen, Seq, and Xcode

#### SARP2A3

Sysout ID and User-Comments

#### SARP2A4

Sysout ID and Retention Values

#### SARP2A5

Sysout ID, Report Locations, and ERO ID

#### SARP2A6

Sysout ID, Org, Class, Dest, Forms, and Tape Values

#### SARP2A7

Sysout ID, Read Date/Time, and Print Date/Time

### ALL Mode Short Panels

#### SARS2A1

Sysout ID, Jobname, Jobid, Arch Date/Time, Loc, Lines, Pages, and Xcode

#### SARS2A2

Sysout ID, Locations, Retention Values, and ERO ID

#### SARS2A3

Sysout ID, Jobname, Read Date/Time, and User-Comments

#### SARS2A4

Sysout ID, Jobname, Jobid, Print Date/Time, User ID, Gen, and Seq

#### SARS2A5

Sysout ID, Jobname, Jobid, Orig, Class, Dest, Forms, and Tape Values

---

**SAR/SARO Mode Long Panels****SARP2S1**

Sysout ID, Arch Date/Time, Loc, Lines and Pages

**SARP2S2**

Sysout ID, Jobname, Jobid, Gen, Seq, and Xcode

**SARP2S3**

Sysout ID and User-Comments

**SARP2S4**

Sysout ID and Retention Values

**SARP2S5**

Sysout ID, Report Locations, and ERO ID

**SARP2S6**

Sysout ID, Org, Class, Dest, Forms, and Tape Values

**SARP2S7**

Sysout ID, Read Date/Time, and Print Date/Time

**SAR/SARO Mode Short Panels:****SARS2S1**

Sysout ID, Jobname, Jobid, Arch Date/Time, Loc, Lines, Pages, and Xcode

**SARS2S2**

Sysout ID, Locations, Retention Values, and ERO ID

**SARS2S3**

Sysout ID, Jobname, Read Date/Time, and User-Comments

**SARS2S4**

Sysout ID, Jobname, Jobid, Print Date/Time, User ID, Gen, and Seq

**SARS2S5**

Sysout ID, Jobname, Jobid, Orig, Class, Dest, Forms, and Tape Values

**EXP/EXPO Mode Long Panels**

**SARP2X1**

Report ID, Arch Date/Time, Loc, Lines, and Pages

**SARP2X2**

Report ID, Jobname, Jobid, Gen, Seq, and Xcode

**SARP2X3**

Report ID and Description

**SARP2X4**

Report ID and User-Comments

**SARP2X5**

Report ID and Retention Values

**SARP2X6**

Report ID, Report Locations, and ERO ID

**SARP2X7**

Report ID, Org, Class, Dest, Forms, and Tape Values

**EXP/EXPO Mode Long Panels**

**SARS2X1**

Report ID, Description, Arch Date/Time, Loc, Lines, and Pages

**SARS2X2**

Report ID, Locations, Retention Values, and ERO ID

**SARS2X3**

Report ID, Jobname, Read Date/Time, and User-Comments

**SARS2X4**

Report ID, Jobname, Jobid, Print Date/Time, User ID, Gen, and Seq

**SARS2X5**

Report ID, Jobname, Jobid, Orig, Class, Dest, Forms, and Tape Values

The Feature 15 panels in this chart show the actual panel name along with the data normally displayed on that panel.

---

## JOB Selection Panels

CA View provides Selection Panels for JOB mode:

**SARP1J1**

Jobname, Job ID, Start Date/Time, End Date/Time, XCODE, Lines

**SARP1J2**

Jobname, Submit Date/Time, System, Class, Userid, Lines, Pages

**SARP1J3**

Jobname, Assigned, User-Comments

## Feature 15 Panels

The list shows the descriptions for the Feature 15 panels.

**SAXS2J1**

Sysout ID, Jobid, Start Date/Time, End Date/Time, Loc, Class, Lines, and Xcode

**SAXS2J2**

Sysout ID, Jobname, Jobid, Archive Date/Time, Lines, Pages, System

**SAXS2J3**

Sysout ID, Jobname, Reader Date/Time, and User-Comments

**SAXS2J4**

Sysout ID, Jobname, Jobid, Print Date/Time, UserID, Gen, and Seq

**SAXS2J5**

Sysout ID, Jobname, Jobid, Orig, Class, Dest, Forms, and Tape Values  
SAXS2J6 Sysout ID, DTOI, Remaining Days/Gens/Copies, ERO ID

Where 'x' is 'R' for English, 'D' for Danish, 'C' for French Canadian, and 'G' for German panels.

**Note:** The Feature 15 panels are only displayed in ALL Mode, the traditional long and/or short panels are displayed in EXP/EXPO and SAR/SARO modes.

## Primary Selection Panels

Each mode of CA View has a Primary Selection panel.

The selection modes are ALL, EXPO beginner, EXPO advanced, EXP beginner, EXP advanced, JOB, SARO, and SAR.

### ALL Mode

When you enter in ALL mode, this Primary Selection panel is displayed:

```
CA View ALL --- Primary Selection for VIEW.SYSTEM1 -----  
Command ==>  
  
Sysout ID   ==> *  
Select by   ==> R                               (R, I, IL, or IR)  
Index Name  ==>                               Value ==>  
            ==>                               ==>  
            ==>                               ==>  
            ==>                               ==>  
  
Selection Criteria:  
  Generation ==> *                             (*, ALL, specific (n), relative (-n),  
                                             range (n:m or -n:m))  
  
  Date       ==>                               (specific (mm/dd/yyyy), relative (-n),  
                                             range(mm/dd/yyyy:mm/dd/yyyy or -n:m))  
  
Selection Options:  Only specify to restrict selection  
  Exceptions ==>    X exceptions only, NX non exceptions only, AX/(blank) any  
  Permanent  ==>    P permanent only, NP non permanent only, AP/(blank) any  
  
Enter END command to terminate this CA View session.
```

## EXPO Mode: Beginner

When you enter in EXPO mode, and you have the initialization parameter USERLVL=BEGINNER, this Primary Selection panel is displayed:

```

CA View EXPO --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Report ID      ==>
Select by     ==> R          (R, I, IL, or IR)
Index Name    ==>          Value ==>
              ==>          ==>
              ==>          ==>
              ==>          ==>

Selection by Copy:
  Previous Copy No. ==>      (Enter 0 or blank for
                             most recent copy, 1 for next
                             most recent copy, etc., or
                             ALL for all copies.)

Selection by Date:
  From          ==>          ( mm/dd/yyyy )
  To / No. of Days ==>      ( mm/dd/yyyy or nnn )

Enter END command to terminate this CA View session.

```

## EXPO Mode: Advanced

When you enter in EXPO mode and you have the initialization parameter USERLVL=ADVANCED, this Primary Selection panel is displayed:

```

CA View EXPO --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Report ID      ==> *
Select by     ==> R          (R, I, IL, or IR)
Index Name    ==>          Value ==>
              ==>          ==>
              ==>          ==>
              ==>          ==>

Selection Criteria:
  Generation   ==> *          (*, ALL, specific (n), relative (-n),
                             range (n:m or -n:m))

  Previous Copy No: ==>      (0 or blank for most recent copy,
                             1 for next most recent copy, etc.,
                             ALL for all copies.)

  From Date   ==>          ( mm/dd/yyyy )
  To Date     ==>          ( mm/dd/yyyy or nnn )

Enter END command to terminate this CA View session.

```

## EXP Mode: Beginner

When you enter in EXP mode, and you have the initialization parameter USERLVL=BEGINNER, this Primary Selection panel is displayed:

```
CA View EXP --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Distribution ID ---> FRED

Report ID      ==>
Select by      ==> R          (R, I, IL, or IR)
Index Name     ==>          Value ==>
              ==>          ==>
              ==>          ==>
              ==>          ==>

Selection by Copy:
  Previous Copy No. ==>      (Enter 0 or blank for
                             most recent copy, 1 for next
                             most recent copy, etc., or
                             ALL for all copies.)

Selection by Date:
  From          ==>          ( mm/dd/yyyy )
  To / No. of Days ==>      ( mm/dd/yyyy or nnn )

Enter END command to terminate this CA View session.
```



## EXP Mode: Advanced

When you enter in EXP mode, and you have the initialization parameter USERLVL=ADVANCED, this Primary Selection panel is displayed:

```

CA View EXP --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Dist ID      ---> FRED

Report ID    ==> *
Select by    ==> R
Index Name   ==>          Value ==>          (R, I, IL, or IR)
            ==>          ==>
            ==>          ==>
            ==>          ==>

Selection Criteria:
  Generation ==> *          (*, ALL, specific (n), relative (-n),
                           range (n:m or -n:m))

  Previous Copy No. ==>    (0 or blank for most recent copy,
                           1 for next most recent copy, etc.,
                           ALL for all copies.)

  From Date    ==>        ( mm/dd/yyyy )
  To Date      ==>        ( mm/dd/yyyy or nnn )

Enter END command to terminate this CA View session.

```

## JOB Mode

When you enter in JOB mode, this Primary Selection panel appears:

```
CA View JOB --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Job Name ==>           ==>
           ==>           ==>
Job ID   ==>

Selection By Date/Time:
From Last ==>   (1-999)           (Minutes, Hours, Days)

From Date ==>           (mm/dd/yyyy) From Time ==>           (hh.mm.ss)
To Date ==>           (mm/dd/yyyy) To Time ==>           (hh.mm.ss)

Search Date/Time by ==>           (Submit, Start, End)

Other Selection Criteria:
Xcode ==>           (specify exception, NX non exceptions, X exceptions)
System ID ==>
User ID ==>
Comments ==>

Enter END command to terminate this CA View session.
```

## SARO Mode

When you enter in SARO mode, this Primary Selection panel is displayed:

```

CA View SARO --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Sysout ID   ==>
Select by   ==> R           (R, I, IL, or IR)
Index Name  ==>           Value ==>
            ==>           ==>
            ==>           ==>
            ==>           ==>

Selection Criteria:
  Generation ==> *           (*, ALL, specific (n), relative (-n),
                             range (n:m or -n:m))

  Date       ==>           (specific (mm/dd/yyyy), relative (-n),
                             range(mm/dd/yyyy:mm/dd/yyyy or -n:m))

Selection Options:  Only specify to restrict selection
  Exceptions ==>      X exceptions only, NX non exceptions only, AX/(blank) any
  Permanent  ==>      P permanent only, NP non permanent only, AP/(blank) any

Enter END command to terminate this CA View session.

```

## SAR Mode

When you enter in SAR mode this Primary Selection panel is displayed:

```

CA View SAR --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Dist ID     ---> FRED

Sysout ID   ==>
Select by   ==> R           (R, I, IL, or IR)
Index Name  ==>           Value ==>
            ==>           ==>
            ==>           ==>
            ==>           ==>

Selection Criteria:
  Generation ==> *           (*, ALL, specific (n), relative (-n),
                             range (n:m or -n:m))

  Date       ==>           (specific (mm/dd/yyyy), relative (-n),
                             range(mm/dd/yyyy:mm/dd/yyyy or -n:m))

Selection Options:  Only specify to restrict selection
  Exceptions ==>      X exceptions only, NX non exceptions only, AX/(blank) any
  Permanent  ==>      P permanent only, NP non permanent only, AP/(blank) any

Enter END command to terminate this CA View session.

```

## Primary Selection Criteria

The following table describes the fields of the Primary Selection panel:

Field Name	Modes	Description								
Sysout ID	ALL SARO SAR	<p>The 1- to 32-character name of either a SYSOUT group or a report. If using the short identifier display panels, this field is limited to 12 characters.</p> <p><b>Note:</b> For more information about valid characters, see <a href="#">Report ID</a> (see page 27).</p> <p>In ALL mode, a CA Deliver Report ID is valid for the Sysout ID field. Possible values are:</p> <table border="0"> <tr> <td>SAMPID</td> <td>A specific ID</td> </tr> <tr> <td>SAMP*</td> <td>ALL reports beginning with SAMP</td> </tr> <tr> <td>SAMP*H</td> <td>Wildcard for fifth character</td> </tr> <tr> <td>(blank, *)</td> <td>All report IDs</td> </tr> </table>	SAMPID	A specific ID	SAMP*	ALL reports beginning with SAMP	SAMP*H	Wildcard for fifth character	(blank, *)	All report IDs
SAMPID	A specific ID									
SAMP*	ALL reports beginning with SAMP									
SAMP*H	Wildcard for fifth character									
(blank, *)	All report IDs									
Dist ID	EXP SAR	<p>A distribution ID</p> <p>Private reports are linked to a list of distribution identifiers (Distids). Distids specify users who are allowed to access the report. To access a report from EXP mode or SAR mode, you must be specified as a Distid for the report.</p>								
Report ID	EXP EXPO	<p>The 1- to 32-character name of a report. If you are using the short identifier display panels, this field is limited to 12 characters.</p> <p>For EXP mode, your Distid must have access to the report for it to be listed.</p>								

Field Name	Modes	Description
Select by	ALL EXP EXPO SAR SARO	<p>Specifies whether you want CA View to use the Report ID information or Index Name and Value criteria, in addition to Gen and Date information for selecting reports</p> <p>Possible values and actions are:</p> <p>R— CA View uses the Report ID as the selection criteria, ignores any Index criteria, and displays a report selection list</p> <p>I— CA View uses the Index Name, Index Value, and Sysout ID information as the selection criteria and displays an Index Selection list (filtered by Sysout ID if specified)</p> <p>IL— Same as I but the index selection list is displayed</p> <p>IR—Same as I but the report selection list is displayed (filtered by Index information if specified)</p> <p>If no exact match is found, the list is positioned to the nearest matching value.</p> <p><b>Note:</b> I, IR, and IL are only valid for reports defined with cross-report indexing.</p>
Index Name	ALL EXP EXPO SAR SARO	<p>The name of a page separation index</p> <p>Page indexes are user-defined, as part of the logical view definition.</p> <p>The location criteria for two page indexes having the same index name may be different. Thus, the page index ACCOUNT defined to report BILLING may be different from the page index ACCOUNT defined to report INVNTRY.</p> <p>Possible values are:</p> <p>ACCOUNT    Specific page index name</p> <p>ACC*        All page index names beginning with ACC</p> <p>ACC*U      Wildcard for fourth character</p> <p>Blank       Ignored</p> <p>*            Causes the index level to be honored</p> <p>This example specifies to match for NAME as the first index level (not second level):</p> <pre> Index      ===&gt; NAME      Value          ===&gt; Name      ===&gt;           ===&gt;           ===&gt; </pre> <p>This example specifies to match for NAME as the first index level, and DATE as the third index level:</p> <pre> Index      ===&gt; Name      Value          ===&gt; Name      ===&gt; *          ===&gt;           ===&gt; DATE      ===&gt; </pre>

Field Name	Modes	Description
Value	ALL EXP EXPO SAR SARO	<p>A value to be matched with the page index values CA View found in the report for this index location.</p> <p>An index value is the actual text CA View found in the report.</p> <p>An Index Name must be specified for an Index Value to be considered. You can have a partial match (ATLA matches ATLANTA); you do not have to specify the entire string that was found.</p>
Generation	ALL EXP EXPO SAR SARO	<p>For non-baseyear databases (ARCHCHG=NO), the standard backup cycle increments the current generation number by one, so that archival of SYSOUT continues to a new generation.</p> <p>For baseyear databases (ARCHCHG=yyyy), the generation number is incremented when the first report is archived or the first standard backup cycle is run on a new day.</p> <p><b>Note:</b> To use Generation, Date must be blank.</p> <p>There is no Generation field in the beginner menus for modes EXP and EXPO. Possible forms are:</p> <p>blank Current generation (also -0, CURRENT, OR CUR)</p> <p>ALL, All generations *</p> <p>-1 Previous generation (relative generation -1) The current generation is always -0.</p> <p>5 Generation number 5</p> <p>23:2 Range of absolute generations 5</p> <p>-3:5 Range of relative generations, in this case 3 generations from today through 5 generations from today</p>
Copy	EXP EXPO	<p>Refers to any of the multiple copies of a report with a particular report ID</p> <p>Any report produced more than once, either regularly or randomly, and archived under the same name more than once can be identified with copy numbers.</p> <p>Possible values are:</p> <p>0 Latest copy</p> <p>2 Two copies previous to current version</p> <p>ALL, All versions, including most current *</p>

Field Name	Modes	Description
Date	ALL EXP EXPO SAR SARO	<p>The date on which the report was produced</p> <p><b>Note:</b> To use Date, the Generation field must be blank.</p> <p>Possible values are:</p> <p>blank          Current date (also -0, CURRENT, OR CUR)</p> <p>ALL, *          All dates</p> <p>11/01/2013      Specific date</p> <p>-3                Three days before the current date</p> <p>11/01/2013      Range of specific dates 11/05/2013</p> <p>-3:5              Range of relative dates, in this case starting with 3 to 5 days ago</p>
From Date:To Date	EXP EXPO	<p>Used in the EXPO Primary Selection panel for beginning users</p> <p>Possible forms are:</p> <p>From Date: 11/01/2013 To Date: blank or 1 accesses the reports created on 11/01/20013</p> <p>From Date: 11/01/2013 To Date: 7 accesses seven days of reports, starting with 11/01/2013</p>
Exceptions	ALL SAR SARO	<p>Specifies whether non-CA Deliver SYSOUT was archived with exceptional conditions</p> <p>Possible values are:</p> <p>blank, A, or      All SYSOUTs AX</p> <p>X                  Only SYSOUT archived <i>with</i> exceptional conditions</p> <p>NX, N              Only SYSOUT archived <i>without</i> exceptional conditions</p>
Permanent	ALL SAR SARO	<p>Specifies whether output was archived with permanent status; only for sites with Expanded Retention Option</p> <p>Possible values are:</p> <p>blank, A, or      Both permanent status and non-permanent AP                  status</p> <p>P                    Permanent status only</p>

Field Name	Modes	Description
	NP, N	Non-permanent status only
Job Name	JOB	The name of the job
Job ID	JOB	The Job identifier from JES
From Last	JOB	The range of time, starting from the current date and time. Values: Days – Starting from the beginning (12:00 midnight or 00:00:00) of the current day ( <i>not</i> the last 24 hours) Hours – Starting from the beginning (00) of the current hour ( <i>not</i> the last 60 minutes) Minutes – Starting from the beginning of the current minute ( <i>not</i> the last 60 seconds)
From Date	JOB	The job range beginning date
From Time	JOB	The job range beginning time
To Date	JOB	The job range ending date
To Time	JOB	The job range ending time
Search Date/Time by	JOB	The type of date/time to be used for selection Possible values are: Submit - date/time job was submitted Start - date/time job started execution End - date/time job ended execution
Xcode	JOB	The job completion code
System ID	JOB	The system ID where the job was executed
User ID	JOB	The user ID who submitted the job
Comments	JOB	The job comments



## Cross-Report Indexing

When you specify both Sysout ID *and* Index Name or Value (or both) information in a Primary Selection panel, you invoke the CA View cross-report index viewing capability. For a SYSOUT or report to participate in cross-report indexing, the SYSOUT must:

- Be specified as participating in cross-report indexing (part of the logical view definition)

**Note:** For more information, see the chapter "Creating Logical Views."

- Have its page index residing on the CA View disk database, even if the SYSOUT itself has been backed up to tape or optical disk, and the disk copy has been deleted

If a SYSOUT does not meet either of the above requirements, it is not displayed when cross-report indexing is invoked.

## Xerox or AFP Reports and Cross-Report Indexing

For Xerox or AFP reports that were archived by the CA View SARFSS interface to participate in cross-report indexing, you must:

1. Define a logical view for the report.
2. Define page indexes to that view with a name similar to the Xerox or ACIF indexes.

**Note:** For more information about defining logical views and page indexes, see the chapter "Creating Logical Views."

## Selecting by Index or Report

You might have thousands of reports on your system, and tens of thousands of logical views and page indexes. Cross-report indexing offers great flexibility in report selection.

- A simple request might specify SELECT BY REPORT and include a SYSOUT ID. The appropriate SYSOUTs are displayed in a selection list.
- A more complex request could display every SYSOUT that has a page index called ZIPCODE, where the value 91356 was found.

Depending on the size of your database, this kind of request could require the product to perform hundreds of thousands of cross reference checks.

**Note:** To maximize performance, always specify as much information as possible about SYSOUT ID and date (or generation).

To maximize the efficiency of the online system, your administrator has two ways to limit the number of page indexes that participate in cross-report indexing:

- With each logical view definition created, specify whether the page indexes for this view are to participate in cross-report indexing.

The page index must reside on the primary disk database to participate in cross-report indexing. For information on defining logical views, page indexes, and sub-indexes, see the chapter "Creating Logical Views."

- Limit the amount of time the page index of a report stays on the CA View disk database.

Do this with the ERO table statement IRETPD (index retention period).

**Note:** For more information about defining the length of time a report and its page index stay on primary disk, see the chapter "Expanded Retention Option" in the *Reference Guide*.

You can also load only a report's page indexes to disk (SEL command LI or LX), or delete only its page indexes from disk (SEL command DI).

## Cross-Report: SELECT BY INDEX

You might know the name of a page index defined to a SYSOUT, but not remember the SYSOUT ID. In the Primary Selection panel, you might specify:

- The PAGE INDEX name
- Blanks for SYSOUT ID
- SELECT BY I (index)

All page indexes having the name you specified are displayed, regardless of their respective SYSOUT IDs. When you select a specific index value (the actual text from the indexed location), you see the SYSOUT IDs of the reports for which that text was found.

The following examples illustrate the SELECT BY INDEX option.

### Example 1

Assume you want to SELECT By Index.

1. Enter the following information in the Primary Selection panel:

```

CA View ALL --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Sysout ID   ==>
Select by   ==> I           (R, I, IL, or IR)
Index Name  ==>           Value ==>
            ==>           ==>
            ==>           ==>
            ==>           ==>

Selection Criteria:
  Generation ==> *           (*, ALL, specific (n), relative (-n),
                             range (n:m or -n:m))

  Date       ==>           (specific (mm/dd/yyyy), relative (-n),
                             range(mm/dd/yyyy:mm/dd/yyyy or -n:m))

Selection Options:  Only specify to restrict selection
  Exceptions ==>    X exceptions only, NX non exceptions only, AX/(blank) any
  Permanent  ==>    P permanent only, NP non permanent only, AP/(blank) any

Enter END command to terminate this CA View session.

```

2. Press Enter to display the index selection list generated by the criteria.

```

CA View ALL ----- Index Name Selection List ----- Row 00001 of 00010
Command ==>                                         Scroll ==> PAGE

Sel Index ----- S U B I N D E X N A M E S -----
ACCOUNT
DATE
DIVISION NAME
DIVISION NAME,STATE,DATE
NAME DIVISION
NAME DIVISION,STATE,DATE
NUMBER
PART
STATE SUBSTATE
TITLE
***** Bottom of Data *****
    
```

Because you did not specify any information in the SYSOUT ID field of the Primary Selection panel, you have a list of all page index names defined to this CA View database.

**Note:** To appear in this list, page index names must also be specified as participating in cross-report indexing and have their page indexes residing on the CA View disk database.

**Example 2**

Assume that you are not aware of all the reports that are run on the system, but you want to see all reports that have BILL JONES as a value for the page index field NAME.

1. Select page index NAME to see what values have been found in the NAME page index for all reports.

```

CA View ALL ----- Index Name Selection List -----
Command ==>                                         Scroll ==> PAGE

Sel Index ----- S U B I N D E X N A M E S -----
ACCOUNT
DATE
DIVISION NAME
DIVISION NAME,STATE,DATE
S NAME DIVISION
NAME DIVISION,STATE,DATE
NUMBER
PART
STATE SUBSTATE
TITLE
***** Bottom of Data *****
    
```

2. Press Enter to display a panel listing all values found for the page index NAME.

```

CA View ALL ----- Index Name Selection List -----
Command ==>                                         Scroll ==> PAGE

Sel Name          Division
BILL JONES        1
BILL WILSON       2
CHUCK JONES       3
CHUCK WOOLERY    4
DAVE CLARK        5
***** Bottom of Data *****
    
```

These values are the actual text CA View found in the SYSOUTs in the location specified by the page index NAME.

```

CA View ALL ----- Index Name Selection List -----
COMMAND ==>                                         Scroll ==> PAGE

Sel Name          Division
S BILL JONES      1
  BILL WILSON     2
  CHUCK JONES     3
  CHUCK WOOLERY  4
  DAVE CLARK      5
***** Bottom of Data *****
    
```

3. Enter S next to BILL JONES to see all reports that have the value BILL JONES for the page index NAME.
4. Press Enter to display this list of SYSOUTs.

```

CA View ALL ----- Sysout Selection List -----
Command ==>                                         SCROLL ==> HALF

Sel Sysout ID    Arch Date  Time  Loc   Lines  Pages
=> *             *         *    *    *      *
  BILLING        11/10/2013 16:38 PTAP   745    36
  HISTORY        11/10/2013 16:38 PTAP   506    14
  INVNTY        11/10/2013 16:38 PDK2   103     8
    
```

On this CA View database, three reports—BILLING, HISTORY, and INVNTY—have a page index called NAME, and have the text BILL JONES as a value for that index. You can now check all reports on the system for this customer.

### Example 3

If you specify any criteria in the SYSOUT ID field of the Primary Selection panel, you see only the reports that match the specified criteria.

For example, specify BILLING as a SYSOUT ID in the Primary Selection panel:

```

CA View ALL --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Sysout ID   ==> billing
Select by   ==> i           (R, I, IL, or IR)
Index Name  ==> name       Value ==> bill jones
           ==>           ==>
           ==>           ==>
           ==>           ==>

Selection Criteria:
  Generation ==>           (*, ALL, specific (n), relative (-n),
                           range (n:m or -n:m))

  Date       ==>           (specific (mm/dd/yyyy), relative (-n),
                           range(mm/dd/yyyy:mm/dd/yyyy or -n:m))

Selection Options:  Only specify to restrict selection
  Exceptions==>     X exceptions only, NX non exceptions only, AX/(blank) any
  Permanent  ==>     P permanent only, NP non permanent only, AP/(blank) any

Enter END command to terminate this CA View session.
    
```

```

CA View Browse - BILLING ----- Rec 0000036 Pg 0000010.001 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** Top of Data *****
Name  Division
XXXX  XXXXXXXX
XXXX  XXXXXXXX
XXXX  XXXXXXXX
XXXX  XXXXXXXX
XXXX  XXXXXXXX
XXXX  XXXXXXXX
XXXX  XXXXXXXX
XXXX  XXXXXXXX
XXXX  XXXXXXXX
***** Bottom of Data *****
    
```

There may be many copies of the BILLING report that are displayed.

If many of their page indexes are on disk, specify a date or generation criteria for best performance.

## Cross-Report: SELECT BY REPORT

You may know the SYSOUT ID but not know the page index names that are defined to the SYSOUT. In the Primary Selection panel, you might specify:

- The SYSOUT ID
- Blanks for PAGE INDEX NAME
- SELECT BY R (report)

The result is:

- A list of all logical views for the SYSOUT ID you specified is displayed.
- The page index names are listed next to the logical view names.
- You can use the listed information to select the view that has the page index you want.

The following examples illustrate the SELECT BY REPORT option.

### Example 1

1. Enter R (SELECT BY REPORT) in the Primary Selection panel.

```

CA View ALL --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Sysout ID   ==>
Select by   ==> R           (R, I, IL, or IR)
Index Name  ==>           Value ==>
            ==>           ==>
            ==>           ==>
            ==>           ==>

Selection Criteria:
  Generation ==> *           (*, ALL, specific (n), relative (-n),
                             range (n:m or -n:m))

  Date       ==>           (specific (mm/dd/yyyy), relative (-n),
                             range(mm/dd/yyyy:mm/dd/yyyy or -n:m))

Selection Options:  Only specify to restrict selection
  Exceptions ==>     X exceptions only, NX non exceptions only, AX/(blank) any
  Permanent  ==>     P permanent only, NP non permanent only, AP/(blank) any

Enter END command to terminate this CA View session.

```

2. Press Enter to display a SYSOUT selection list.

```

CA View ALL ----- Sysout Selection List -----
Command ==>                                     Scroll ==> HALF

Sel Sysout ID          Arch Date  Time  Loc      Lines  Pages
==> *                  *        *    *        *      *
BALANCES              11/10/2013 16:38 PTAP    745    36
BILLING               11/10/2013 16:38 PTAP    506    14
CREDITS               11/10/2013 16:38 PDK2   103     8
DEBITS                11/10/2013 16:38 PDK2    25     2
HISTORY               11/10/2013 09:50 PTAP    86     7
INVNTRY               11/10/2013 09:50 PTAP    86     7
SUMMARY               11/10/2013 09:50 PTAP    86     7
    
```

You now have a list of all reports defined to this CA View database regardless of index name information because you specified SELECT BY REPORT.

### Example 2

Suppose you want to see all page indexes that are defined to the BILLING report. You can see a list of all logical views defined to the report, and this list includes all defined page index names.

1. Enter S next to BILLING, the desired SYSOUT ID.

```

CA View ALL ----- Sysout Selection List -----
Command ==>                                     Scroll ==> HALF

Sel Sysout ID          Arch Date  Time  Loc      Lines  Pages
S BILLING              11/10/2013 16:38 PTAP    506    14
BALANCES              11/10/2013 16:38 PTAP    745    36
CREDITS               11/10/2013 16:38 PDK2   103     8
DEBITS                11/10/2013 16:38 PDK2    25     2
HISTORY               11/10/2013 09:50 PTAP    86     7
INVNTRY               11/10/2013 09:50 PTAP    86     7
SUMMARY               11/10/2013 09:50 PTAP    86     7
    
```

2. Press Enter to display a list of all logical views that exist for this report.

This result occurs because the targeted report has logical views and page indexes defined to it.

```

CA View EXPO ----- View Selection -----
Command ==>                                     Scroll ==> HALF

Index Value ==>

Sel Num Acc View ID          Description
---  ---  ---  ---
000 PUB REPORT1            NATIVE BROWSE
001 PUB                    VIEW INDEXED BY DIVISION AND NAME
002 PUB                    VIEW INDEXED BY TITLE
003 PUB                    VIEW INDEXED BY STATE
004 PUB                    VIEW INDEXED BY DATE
005 PUB                    VIEW INDEXED BY NAME
006 PUB
007 PUB
008 PRV                    USER PRIVATE LOGICAL VIEW
    
```



With each view, the page indexes defined to that view are listed. You see that logical view 005 has the index called NAME.

3. Enter S next to 005 to obtain a list of the values that were found for that page index.

```
CA View ALL ----- Page Index Selection List -----
Command ==>                                         Scroll ==> PAGE

Sel Name          Division
*** ALL PAGES ***    BILL JONES          1
BILL JONES         1
BILL WILSON        2
CHUCK JONES        3
CHUCK WOOLERY     4
DAVE CLARK         5
***** Bottom of Data *****
```

On the CA View database, these values for the page index NAME were found in the BILLING report. You can now select any NAME, and view the BILLING report pages indexed for that name.

## Bypassing Panels

You can go directly to the pages that you need, bypassing all intermediate panels, by specifying the information in the Primary Selection panel.

1. Enter the following values.

```

CA View ALL --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Sysout ID   ==> BILLING
Select by   ==> I           (R, I, IL, or IR)
Index Name  ==> NAME       Value ==> BILL JONES
           ==>           ==>
           ==>           ==>
           ==>           ==>

Selection Criteria:
  Generation ==>           (*, ALL, specific (n), relative (-n),
                           range (n:m or -n:m))

  Date       ==> 04/05/2009 (specific (mm/dd/yyyy), relative (-n),
                           range(mm/dd/yyyy:mm/dd/yyyy or -n:m))

Selection Options:  Only specify to restrict selection
Exceptions ==>     X exceptions only, NX non exceptions only, AX/(blank) any
Permanent   ==>   P permanent only, NP non permanent only, AP/(blank) any

Enter END command to terminate this CA View session.
    
```

**Note:** The date is specified to enhance performance.

2. Press Enter to go *directly* to the appropriate pages of the SYSOUT.

```

CA View  Browse - VIEW5 ----- Rec 0000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** Top of Data *****
  THIS IS THE BILLING REPORT
  CUSTOMER:
  BILL JONES:
  DIVISION:  *()
  ZIP CODE: 91356
    
```

Be aware of the following:

- When you use selection code S to select a SYSOUT, CA View considers any page index NAME and VALUE information you entered in the Primary Selection panel.
- If you want to see all the logical views for a SYSOUT (not just the views matching your criteria), you can use selection code V for a list of all the views for the SYSOUT.
- You can also access a particular view by specifying a view number.

For example, the following command displays the output SYSOUT ID using logical view 6:

```
V6 SYSOUT ID
```

## The SELECT Command

Use the SELECT command as an alternative to entering data into the individual data fields in a Primary Selection panel.

Enter your selection criteria on the command line using this format for ALL, SAR, and SARO mode:

```
SELECT xxxxxx-id GEN(#) DATE(mm/dd/yyyy) [X|NX|AX] [P|NP|AP]
      [SAVE|NOSAVE] ASIS INDEX(name, name) VALUE(text, text)
      BY(I|R|IL|IR) ALL
```

This is the command format for EXP and EXPO mode:

```
SELECT xxxxxx-id GEN(#) DATE(mm/dd/yyyy) [X|NX|AX] [P|NP|AP]
      [SAVE|NOSAVE] ASIS INDEX(name, name) VALUE(text, text)
      BY(I|R|IL|IR) ALL COPY(#)
```

Be aware of the following:

- If the Report-Id (xxxxxx-id) contains quotes or spaces, it must be enclosed in quotes (single or double).
- Any quotes in Report-id must be entered as a pair of quotes because a non-paired quote will end the ID.  
For example, if the value is JIM'S REPORT it must be entered as 'JIM'S REPORT' or "JIM'S REPORT".
- The asterisk is used as a wild card character and not an actual report id character.

**Note:** If particular selection criteria is not available on the menu for a particular mode, you cannot use that criteria with the SELECT command.

The SELECT command has the following parameters:

### SAVE

Saves the values in their screen fields (default)

### NOSAVE

Does not save the values in their screen fields

### ASIS

Does not use any panel field values

## Examples for Finding Output

Review these examples to get familiar with the operation of the selection codes in the Primary Selection panels. In each example, selection criteria are shown as they are to be entered on the panel and as you would enter them with the SELECT command (when applicable).

### Example 1: ALL Mode

If the selection criteria are as follows, all output from the current generation is displayed:

Sysout ID	====>	(blank)
Select by	====>	(blank)
Index Name	====>	(blank)
Value	====>	(blank)
Generation	====>	(blank)
Date	====>	(blank)
Exceptions	====>	(blank)
Permanent	====>	(blank)

### Example 2: ALL Mode

If the selection criteria are as follows, only output from the current generation in which an exceptional condition occurred is displayed:

Sysout ID	====>	(blank)
Select by	====>	(blank)
Index Name	====>	(blank)
Value	====>	(blank)
Generation	====>	(blank)
Date	====>	(blank)
Exceptions	====> X	
Permanent	====>	(blank)

The same list of output is displayed if you enter the following form of the SELECT command:

```
SELECT X
```

**Example 3: ALL Mode**

If the selection criteria are as follows, all output from the prior two generations is displayed:

Sysout ID	====>	(blank)
Select by	====>	(blank)
Index Name	====>	(blank)
Value	====>	(blank)
Generation	====>-1:2	
Date	====>	(blank)
Exceptions	====>	(blank)
Permanent	====>	(blank)

The same list of output is displayed if you enter the following form of the SELECT command:

```
SELECT GEN(-1:2)
```

**Example 4: ALL Mode**

If the selection criteria are as follows, all output from the generation prior to the current generation that does not have an exceptional condition is displayed:

Sysout ID	====>	(blank)
Select by	====>	(blank)
Index Name	====>	(blank)
Value	====>	(blank)
Generation	====>-1	
Date	====>	(blank)
Exceptions	====>NX	
Permanent	====>	(blank)

The same list of output is displayed if you enter the following form of the SELECT command:

```
SELECT GEN(-1) NX
```

### Example 5: ALL Mode

If the selection criteria are as follows, all generations of output that have the specific name of A27S23W are displayed:

Sysout ID	===>A27S23W	
Select by	===>	(blank)
Index Name	===>	(blank)
Value	===>	(blank)
Generation	===>ALL	
Date	===>	(blank)
Exceptions	===>	(blank)
Permanent	===>	(blank)

The same list of output is displayed if you enter the following form of the SELECT command:

```
SELECT A27S23W ALL
```

### Example 6: ALL Mode

If the selection criteria are as follows, all output that have B16 as the first three characters in their names, from generations 78 and 79, are displayed:

Sysout ID	====>B16*	
Select by	====>	(blank)
Index Name	====>	(blank)
Value	====>	(blank)
Generation	====>78:79	
Date	====>	(blank)
Exceptions	====>	(blank)
Permanent	====>	(blank)

The same list of output is displayed if you enter the following form of the SELECT command:

```
SELECT B16* GEN(78:79)
```

**Example 7: ALL Mode**

If the selection criteria are as follows, all generations of output that have a page index named ACCOUNT are displayed:

Sysout ID	===>A27S23W	
Select by	===>INDEX	
Index Name	===>ACCOUNT	
Value	===>	(blank)
Generation	===>ALL	
Date	===>	(blank)
Exceptions	===>	(blank)
Permanent	===>	(blank)

The same list of output is displayed if you enter the following form of the SELECT command:

```
SELECT A27S23W BY(I) INDEX(ACCOUNT) ALL
```

**Example 8: ALL Mode**

If the selection criteria are as follows, all output that has page indexes that have ACC as the first three characters of the page index name, from generations 78 and 79, are displayed:

Sysout ID	===>ACC*	
Select by	===>INDEX	
Index Name	===>ACC*	
Value	===>	(blank)
Generation	===>78:79	
Date	===>	(blank)
Exceptions	===>	(blank)
Permanent	===>	(blank)

The same list of output is displayed if you enter the following form of the SELECT command:

```
SELECT ACC* BY (I) INDEX(ACC*) GEN(78:79)
```

### Example 9: EXPO Mode

If the selection criteria are as follows, a list of all reports archived from CA Deliver is displayed:

Sysout ID	===>	(blank)
Select by	===>	(blank)
Index Name	===>	(blank)
Value	===>	(blank)
Generation	===>	(blank)
Copy	===>ALL	
From Date	===>	(blank)
To Date	===>	(blank)

The same list of reports is displayed if you enter the following form of the SELECT command:

```
SELECT ALL
```

### Example 10: EXPO Mode

If the selection criteria are as follows, a list of all reports archived from CA Deliver that have all the following characteristics is displayed:

- A REPORT ID that begins with S
- Were generated on 11/07/2013, 11/08/2013, or 11/09/2013
- Belong to the group designated as being COPY NO. 1, which means they were generated just prior to the most current COPY NO group

Report ID	===>S*	
Select by	===>	(blank)
Index Name	===>	(blank)
Value	===>	(blank)
Generation	===>	(blank)
Copy	===>1	
From Date	===>11/07/2013	
To Date	===>11/09/2013	



The same list of reports is displayed if you enter the following form of the SELECT command:

```
SELECT S* COPY(1) DATE(11/07/2013:11/09/2013)
```

#### Example 11: EXPO Mode

If the selection criteria are as follows, a list of all copies of report AH810A-R1 archived from CA Deliver is displayed:

Report ID	====>AH810A-R1	
Select by	====>	(blank)
Index Name	====>	(blank)
Value	====>	(blank)
Generation	====>	(blank)
Copy	====>ALL	
From Date	====>	(blank)
To Date	====>	(blank)

The same list of reports is displayed if you enter the following form of the SELECT command:

```
SELECT AH810A-R1 ALL
```

#### Example 12: JOB Mode

To display a list of all jobs archived on the current day from 12:00 midnight (00:00:00) to the current time, enter the following selection criteria:

From Last	====>1	Days
From Date	====>	(blank)
From Time	====>	(blank)
To Date	====>	(blank)
To Time	====>	(blank)

The same list of reports appears if you enter the following form of the SELECT command:

```
SELECT LAST(1,D)
```

## Changing Modes with the MODE Command

Use the MODE command to change your current access mode. You can:

- Change to other modes to which you have pre-designated access once you are online in the system
- Change the Distribution Id associated with your predefined User Profile for EXP and SAR Mode

Enter the MODE command with the appropriate parameter on the command line of any Primary Selection panel, then press Enter.

The format is:

```
MODE mode
```

```
MODE mode distid
```

```
MODE distid mode
```

```
MODE distid
```

where *mode* is:

One of the user modes:

- ALL
- EXPO (CA Deliver Operations)
- EXP (CA Deliver)
- SARO (SAR Operations)
- SAR
- JOB

where *distid* is:

A distribution ID that you are allowed to access, given the value of DISTID MASK in your user profile.

**Note:** If *distid* contains an embedded blank, parenthesis, quote, or a comma, enclose it in quotes (single or double). Any quote within the Dist-ID must be entered as a pair of quotes because a non-paired quote ends the ID; for example, if the value is JIM'S DESK, enter it as 'JIM'S DESK' or "JIM'S DESK".

The format is:

```
MODE EXP distid
```

```
MODE SAR userid
```

The following are examples of how to change modes with the mode command:

- To change to EXP mode from some other mode:  
MODE EXP
- To change to SAR mode for Distribution Id ACCTCLK:  
MODE SAR ACCTCLK
- To change EXP Mode Distribution ID to PAYMGR while in EXP Mode:  
MODE PAYMGR
- To change to JOB mode from another mode:  
MODE JOB



# Chapter 3: Selecting and Retrieving Reports

---

Administrators can select and retrieve reports using each of the user modes: ALL, SAR, SARO, EXP, EXPO, and JOB.

For all modes, begin by entering selection criteria on the primary selection panel. Next, proceed as follow:

- For JOB mode, a panel presents the jobs that match the criteria. Select a job to display its log and output.

**Note:** The following sections about output selection lists, sorting, and filtering do *not* apply to JOB mode.

- For modes other than JOB, use the panels that follow to select and retrieve one archived SYSOUT group or report. You can print or view the output.

For modes other than JOB, the following process illustrates the general flow and options:

1. Primary Selection Panel
2. Output Selection List
3. One or more of the following options:
  - Delete output
  - Invoke cleanup process
  - Load output from disk to tape
  - View output
  - Email output
  - Print output
  - Keep output in permanent status on disk or tape
  - Take output out of permanent status

This section contains the following topics:

[User Modes and Output Selection Lists](#) (see page 71)

[Using Sorting and Filtering](#) (see page 71)

[Selecting Data with Selection Codes](#) (see page 78)

[The Sysout Selection List in ALL Mode](#) (see page 79)

[Selecting Output for Retrieval—ALL Mode](#) (see page 89)

[The Sysout Selection List in SAR\(O\) Mode](#) (see page 93)

[Selecting SYSOUT for Retrieval—SAR\(O\) Mode](#) (see page 99)

[The Report Selection List in EXP\(O\) Mode](#) (see page 104)

[Selecting Reports for Retrieval—EXP\(O\) Mode](#) (see page 112)

[JOB Selection List in JOB Mode](#) (see page 117)

[Retrieving Jobs in Job Mode](#) (see page 119)

[Using the Selection List Commands](#) (see page 121)

## User Modes and Output Selection Lists

The product can access different types of archived data, depending on your user mode, by offering different selection lists. The Sysout Selection List corresponds to archived CA View SYSOUT. The Report Selection List corresponds to archived reports originating from CA Deliver. The JOB Selection List shows jobs that have had sysout archived.

The following table indicates which selection list is used by each of the user modes and lists the corresponding type of data available for each.

User Mode	Selection List Used	Type of Data Accessed
ALL	Sysout Selection List	SYSOUT originally processed through CA View and reports originally processed through CA Deliver  In this guide, we refer to both of these types of data together as <i>output</i> .
SAR	Sysout Selection List	SYSOUT originally processed through CA View available to your CA View user ID
SAR Operations (SARO)	Sysout Selection List	SYSOUT originally processed through CA View
JOB	JOB Selection List	Jobs that have SYSOUT archived in CA View <b>Note:</b> In JOB mode, you can access <i>only</i> reports for the job that have been archived using SARSTC, SARFSS text collector, SARXTD, and SARDBB.
CA Deliver (EXP)	Report Selection List	Reports originally processed through CA Deliver available to your DIST ID
CA Deliver Operations (EXPO)	Report Selection List	Reports originally processed through CA Deliver

## Using Sorting and Filtering

The Sysout Selection List, Report Selection List, and JOB Selection List panels support sorting and filtering. Sorting lets you re-sequence the display data, and filtering lets you refine or restrict the display data, as explained in the following topics.

## Selection List Sorting

You can sort the column data in a predefined sort sequence. Generally, all fields sort in ascending sequence except date fields. The following table indicates the sort field name and sequence for the Selection List panels:

Field	Alias	Sequence	Description
SYSOUT	ID, SID, S, REPORT, RID, R	Ascending	Sysout identifier and report identifier
Archdate	ARCH, DATE, ARCDATE	Descending	Archive date
Location	Loc	Ascending	Report location
Lines		Ascending	Report lines
Pages		Ascending	Report pages
Desc	DESCRIPTION	Ascending	Report description
Jobname	JOB	Ascending	Job name
Jobid		Ascending	Job number
Gen	GENERATION	Ascending	Generation number
Xcode	X	Ascending	Exceptional conditions
Userfld	COM, COMMENTS, USER-COMMENTS, USER-COMMENT, COMMENT	Ascending	User comments
Origin	ORIG, ORG	Ascending	Origin of report
Class	C	Ascending	Sysout class
Dest		Ascending	Destination
Forms	FORM	Ascending	Forms name
Tapeseq	TAPE, TSEQ	Ascending	Tape sequence number
Prtdate	PRINT, PRT	Descending	Last printed date and time
Rdrdate	READER, READ, RDR	Descending	Reader date and time
Accdate	ACCESS, ADATE	Descending	Last access date
Strdate	Start	Descending	Start date
Enddate	END	Descending	End date
SYSTEM	SYSID, SYS	Ascending	System ID
Userif		Ascending	User Information



Field	Alias	Sequence	Description
Listfld1		Ascending	List Field 1
Listfld2		Ascending	List Field 2
Listfld3		Ascending	List Field 3
Listfld4		Ascending	List Field 4
Listfld5		Ascending	List Field 5
Owner	Userid	Ascending	Owner
Assigned	ASSIGN	Ascending	'Assigned to' userid

**Note:** The 'Lines' column on the Sysout Selection panel displays either the number of lines associated with a mainframe sysout group, or the number of bytes associated with a PC File in the database.

The mainframe sysout groups always display the value that represents the number of lines in whole integers. The smallest number that appears in this column is 1.

The PC files are displayed in K (Kilobyte), M (Megabyte) or, G (Gigabyte) notation. The sorting is performed on the integer value stored in this field, not on the K, M, or G.

**Note:** The smallest number that appears in this column is 1K, even if the file is one byte.

For example, a PC file of 200 bytes might appear to be sorted between the two mainframe sysout groups, 100 lines and 300 lines and is displayed as:

----- Sysout Selection List -----							
Command ==>				Scroll ==> HALF			
me	Jobid	Arch Date	Time	Loc	Lines	Pages	Xcode
*	*	*	*	*	*	*	*
nnn	nnnnnnnn	mm/dd/yyyy	hh:mm	llll	100	1	
nnn	nnnnnnnn	mm/dd/yyyy	hh:mm	llll	1K	0	
nnn	nnnnnnnn	mm/dd/yyyy	hh:mm	llll	300	1	

The sort is performed on an integer value in this field and the items are sorted in K, M, or G notation order. The files can appear to be sorted out of sequence.

## Selection List Filtering

Filtering data is entered on the line that directly follows the column headings on the selection list panels. The selection list columns have been designated as character or number fields and the filtering data varies slightly based on this designation.

Note the following:

- By default, the filtering fields are set to \* except for the Sysout and Report identifier, archive date, generation, location, and exceptional condition; these fields are filled with data entered on the Primary Selection panel.
- When the filtering fields are changed, the selection list panel redisplay with entries that match the specification.
- When filtering data is specified for multiple fields, only entries matching all the filtering criteria are displayed.
- If a generation range or date range is specified on the Primary Selection panel, the generation and/or date filter is designated as <SEL> indicating reference to the Primary Selection panel specifications.

**Note:** Line selection codes are discarded when new filtering data is entered.

This table indicates the fields that can be filtered in the Sysout Selection List and Report Selection List panels:

Field	Type	Description
ID	Character	Sysout identifier and report identifier
Arch Date	Character	Archive date
Arch Time	Character	Archive time
Loc	Character	Report location
Lines	Numeric	Report lines
Pages	Numeric	Report pages
Description	Character	Report description
Jobname	Character	Job name
Jobid	Character	Job number
Gen	Numeric	Generation number
Xcode	Character	Exceptional condition
User Comments	Character	User comments
Remaining Days	Numeric	Remaining days

<b>Field</b>	<b>Type</b>	<b>Description</b>
Remaining Gens	Numeric	Remaining generations
Remaining Copy	Numeric	Remaining copies
Remaining Disk Days	Numeric	Remaining days on disk
Remaining Disk Gens	Numeric	Remaining generations on disk
Remaining Disk Copy	Numeric	Remaining copies on disk
Dsk2days	Numeric	Remaining days on optical
Disk	Character	Report on disk
Tape	Character	Report on tape
Index	Character	Report index on disk
Optical	Character	Report on optical
ERO ID	Character	Expanded retention option identifier
Org	Character	Origin of report
Class	Character	Sysout class
Dest	Character	Destination
Forms	Character	Forms name
Tapeseq	Numeric	Tape sequence number
Tapepos	Numeric	Location on tape
Tapecnt	Numeric	Number of tapes
Print Date	Character	Date last printed
Print Time	Character	Time last printed
Read Date/Submit Date	Character	Reader date
Read Time/Submit Time	Character	Reader time
Accdate	Character	Last access date
Start Date	Character	Start date
Start Time	Character	Start time
End Date	Character	End date
End Time	Character	End time
Userid	Character	Userid submitting the job
System	Character	System ID
Assigned	Character	'Assign To' userid

## Special Filtering Characters

For character fields, three special filtering characters are provided as pattern matching characters. All other characters reference a match of that specific character. These special filtering characters are:

**\***

Matches any string of characters

This character is a fuzzy match character. \* can reference any number of characters as well as no characters.

For example:

\* Matches everything

A\* Matches data starting with A

\*A Matches data ending with A (A, LA, FLORIDA, and so on)

\*A\* Matches A anywhere in the data (A, LA, OHARE, MAINE, and so on)

**?**

Matches any single character including a blank. If you are looking for an actual ?, you will match all characters, not just the ?

**^**

Matches a single non-blank character. If you are looking for an actual ^, you will match all non-blank characters, not just the ^.

For numeric fields, six special filtering characters are provided in addition to a number specification. These special filtering characters are:

**\***

All values

**K**

Specifies the number in thousands (1,000 times the number)

**M**

Specifies the number in millions, (1,000,000 times the number)

**:**

Separates two numbers to indicate a range of numbers

**+**

Suffixes the number to indicate all values greater than or equal to the number

**-**

Suffixes the number to indicate all values less than or equal to the number

## Filtering Examples

This list describes various filtering specifications:

**\***

Matches any data

**DISK**

Matches data equal to DISK

**QUE\***

Matches data starting with QUE

**\*PAY\***

Matches data that contains PAY

**\*2013**

Matches data that ends with 2013

**11\*2013**

Matches data that starts with 11 and ends with 2013

**W\*RPT\***

Matches data that start with W and contains RPT

**\*ACC\*T\***

Matches data that contains ACC and T (for example, ACCT and ACCOUNT)

**?A\***

Matches data that has A in the second position

**??WPLY**

Matches data that has three characters followed by WKLY

**^\***

Matches data that starts with a non-blank character

**100000+**

Matches values greater than or equal to 100000

**2M+**

Matches values greater than or equal to 2,000,000

**2009-**

Matches values less than or equal to 2009

**15K-**

Matches values less than or equal to 15,000

**20K:50K**

Matches values between 20,000 and 50,000

## Selecting Data with Selection Codes

To select data from a selection list, enter one of several selection codes in the appropriate place on the screen. Selection codes specify CA View functions, such as printing output or displaying data. These codes with their relative selection lists are discussed on the following pages.

## The Sysout Selection List in ALL Mode

To display a list of selected output in the Sysout Selection List, specify valid selection criteria in the ALL mode Primary Selection panel, and then press Enter.

This is an example of a Sysout Selection List in ALL mode:

```

CA View ALL ----- Sysout Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Sysout ID                                     Arch Date  Time  Loc   Lines Pages
==> *                                           *         *    *     *     *
  CLS1JE4                                       04/05/2013 16:38 PTAP   745   36
  CLS1JE4-R2                                   04/05/2013 16:38 PTAP   506   14
  CLS1JE4-R4                                   04/05/2013 16:38 PDK2   103    8
  CLS1JE4-R5                                   04/05/2013 16:38 PDK2    25    2
  CLS3JS4                                       04/05/2013 09:50 PTAP    86    7
  DLEEJOB2                                     08/28/2013 20:30 PTAP   284    6
  DLEEJOB2                                     08/28/2013 20:30 PTAP    15    1
  DLEEJOB2                                     08/28/2013 20:23 PTAP   177    3
  DLEEJOB2                                     08/28/2013 20:23 PTAP   108    3
  DLEEJOB2                                     08/28/2013 20:23 PTAP    15    1
  DLEEJOB3                                     08/28/2013 20:31 PTAP   177    3
  DLEEJOB3                                     08/28/2013 20:31 PTAP   108    3
  DLEEJOB3                                     08/28/2013 20:31 PTAP    15    1
  FHGBCHJB                                    07/05/2013 09:45 PTAP  1796   36
  FREDJCL                                     05/06/2013 09:45 PTAP   723   21
  FREDJCL                                     05/06/2013 09:45 PTAP    66    4
  FREDJCL                                     05/06/2013 09:41 PTAP   723   21
  FREDJCL                                     05/06/2013 09:41 PTAP    66    4
  FREDRPT                                     07/12/2013 10:29 PTAP   821   23
  FREDRPT                                     05/22/2013 16:41 PTAP   723   21

```

ALL mode can access *all* archived output, including SYSOUT groups originally processed by CA View and reports originally processed by CA Deliver.

**Note:** Output in ALL mode can include both SYSOUT groups and reports.

## Field Descriptions

This table describes the data displayed in the Sysout Selection List.

Type of Data	Column Name	Description
SYSOUT group ID or report ID	Sysout ID	Name of the SYSOUT group or report as archived

Archival date and time	Arch Date Time	Date and time the listed output was archived For all output with the same name, output is listed chronologically with the most recently archived output listed first.
Location	Loc	Location of the archived output; see the following table
Lines	Lines	Number of lines in the listed output
Pages	Pages	Number of pages in the listed output

## Location of Output

This list indicates the displayed locations and the actual locations that can be displayed in the Sysout Selection List.

### **BNDW**

Awaiting CA Deliver bundling

### **DISK**

On primary disk and possibly tape

### **DSK2**

On secondary disk and possibly tape

### **LOAD**

In the process of being loaded to disk

### **OPEN**

In the process of being archived to disk



**PDSK**

Normal primary disk and possibly tape

**PDK2**

Normal secondary disk and possibly tape

**PERM**

In permanent status primary disk and possibly tape or it has been marked for ERO processing

**PRM2**

In permanent status on secondary disk and possibly tape

**PTAP**

In permanent status on tape only

**PTMP**

In permanent status on tape and temporarily reloaded to primary disk

**TAPE**

On tape only

**TEMP**

Temporarily reloaded to primary disk

## Sysout Selection List: Example 1

This is an example of a Sysout Selection List in ALL mode after scrolling to the right once. Each field is explained in the table that follows.

```

CA View ALL ----- Sysout Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Sysout ID          Jobname  Jobid   Gen   Seq Xcode
==> *                  *       *      *    *  *
  CLS1JE4              CLS1JE4 J07611  42   15
  CLS1JE4-R2          CLS1JE4 J07611  42   11
  CLS1JE4-R4          CLS1JE4 J07611  42   12
  CLS1JE4-R5          CLS1JE4 J07611  42   13
  CLS3JS4              CLS3JS4 J07309  42   17
  DLEEJOB2            DLEEJOB2 J05123  54   38
  DLEEJOB2            DLEEJOB2 J05123  54   37
  DLEEJOB2            DLEEJOB2 J05117  54   36
  DLEEJOB2            DLEEJOB2 J05117  54   35
  DLEEJOB2            DLEEJOB2 J05117  54   34
  DLEEJOB2            DLEEJOB2 J05117  54   34
  DLEEJOB3            DLEEJOB3 J05124  54   41
  DLEEJOB3            DLEEJOB3 J05124  54   40
  DLEEJOB3            DLEEJOB3 J05124  54   39
  FHGBCHJB           FHGBCHJB J09858  44   1 0008
  FREDJCL             FREDJCL J09821  43   6
  FREDJCL             FREDJCL J09821  43   5
  FREDJCL             FREDJCL J09818  43   4
  FREDJCL             FREDJCL J09818  43   3
  FREDRPT             FREDRPT J03711  47   3
  FREDRPT             FREDRPT J05842  43   8
    
```

## Field Descriptions

This table describes the data displayed in the Sysout Selection List.

Type of Data	Column Name	Description
SYSOUT group ID	Sysout ID	Name of the SYSOUT group or report as archived
Job name	Jobname	Name of the job that produced the listed SYSOUT group or report
JES job ID	Jobid	JES subsystem job number
Generation	Gen	Generation number
Sequence number	Seq	Sequence number of the archival tape

Type of Data	Column Name	Description
Exceptional conditions	Xcode	Any exceptional conditions that resulted when the SYSOUT group was produced  Any code listed is an abbreviation. For example: <i>n</i> NOTCAT – not cataloged <i>n</i> SOC4 – OC4 system abend <i>n</i> U3044 – user abend <i>n</i> JCLERR – JCL error <i>n</i> 0020 – completion code of 20

## Sysout Selection List: Example 2

This is an example of a Sysout Selection List in ALL mode after you scroll to the right twice. Each field is explained in the table that follows.

```

CA View ALL ----- Sysout Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Sysout ID                                     User-Comments
=> *
  CLS1JE4                                         REPORT INDEX FACILITY
  CLS1JE4-R2                                     REPORT IN FISCHER'S OFFICE
  CLS1JE4-R4
  CLS1JE4-R5
  CLS3JS4
  DLEEJOB2                                       LEGG CHECKED THIS REPORT OVER
  DLEEJOB2
  DLEEJOB2
  DLEEJOB2
  DLEEJOB2
  DLEEJOB3
  DLEEJOB3
  DLEEJOB3
  FHGBCHJB
  FREDJCL
  FREDJCL
  FREDJCL
  FREDJCL
  FREDRPT
  FREDRPT
  
```

## Field Descriptions

This table describes the data displayed in the Sysout Selection List.

Type of Data	Column Name	Description
SYSOUT group ID or report ID	Sysout ID	Name of the SYSOUT group or report as archived
User-entered comment field	User-Comments	User can enter any text here, such as comments or important notes that are to be saved with the output

## Sysout Selection List: Example 3

This is an example of a Sysout Selection List in ALL mode after you scroll to the right three times. Each field is explained in the table that follows.

```

CA View ALL ----- Sysout Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Sysout ID
=> *
    CLS1JE4                77                999
    CLS1JE4-R2             77                999
    CLS1JE4-R4             77                0          999
    CLS1JE4-R5             77                0          999
    CLS3JS4                77                999
    DLEEJOB2               89                999
    DLEEJOB2               89                999
    DLEEJOB2               89                999
    DLEEJOB2               89                999
    DLEEJOB2               89                999
    DLEEJOB2               89                999
    DLEEJOB3               89                999
    DLEEJOB3               89                999
    DLEEJOB3               89                999
    FHGBCHJB               79                999
    FREDJCL                78                999
    FREDJCL                78                999
    FREDJCL                78                999
    FREDJCL                78                999
    FREDRPT                82                999
    FREDRPT                78                999
    
```

## Field Descriptions

This table describes the data displayed in the Sysout Selection List.

Type of Data	Column Name	Description
SYSOUT group ID	Sysout ID	Name of the SYSOUT group or report as archived
Total remaining time	Remaining Days, Gens, Copy	The total remaining time that the SYSOUT or report will be stored by CA View, shown in days, generations, or copies <b>Note:</b> The NGEND and NGENT initialization parameters and the ERO (Expanded Retention Option) table statements set the values
Remaining time on disk	Remaining Disk: Days, Gens, Copy	The remaining time that the SYSOUT or report is to be stored by CA View on primary disk, shown in days, generations, or copies <b>Note:</b> The NGEND and NGENT initialization parameters and the ERO table statements set the values
Remaining time on secondary storage	Dsk2 Days	The remaining time that the SYSOUT or report is to be stored by CA View on secondary disk or possibly tape

## Sysout Selection List: Example 4

This is an example of a Sysout Selection List in ALL mode after you scroll to the right four times. Each field is explained in the table that follows.

```

CA View ALL ----- Sysout Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Sysout ID          D T O I   ERO ID
*                   * * * * *
=> CLS1JE4             Y
  CLS1JE4-R2          Y
  CLS1JE4-R4          Y Y
  CLS1JE4-R5          Y Y
  CLS3JS4             Y
  DLEEJOB2            Y
  DLEEJOB2            Y
  DLEEJOB2            Y
  DLEEJOB2            Y
  DLEEJOB2            Y
  DLEEJOB2            Y
  DLEEJOB3            Y
  DLEEJOB3            Y
  DLEEJOB3            Y
  FHGBCHJB           Y
  FREDJCL             Y
  FREDJCL             Y
  FREDJCL             Y
  FREDJCL             Y
  FREDRPT             Y
  FREDRPT             Y
  
```

## Field Descriptions

This table describes the data displayed in the Sysout Selection List.

Type of Data	Column Name	Description
SYSOUT group ID	Sysout ID	Name of the SYSOUT group as archived
Disk	D	Whether the SYSOUT is currently on disk (Y or N)
Tape	T	Whether the SYSOUT is currently on tape (Y, B, or N)
		Y Indicates that the report is only on the primary and optional duplex tape B Indicates that the report is on the primary <i>and</i> optional duplex tape and the disaster recovery tape

Type of Data	Column Name	Description
Optical	O	Whether the SYSOUT is currently on optical disk (Y or N)
Index	I	Whether the SYSOUT is indexed and if the index is resident on disk (Y or N)
ERO table entry	ERO ID	The ERO table entry that is controlling the retention specification for this SYSOUT

### Sysout Selection List: Example 5

This is an example of a Sysout Selection List in ALL mode after you scroll to the right five times. Each field is explained in the table that follows.

```

CA View ALL ----- Sysout Selection List -----
Command ==>
Sel Sysout ID
=> *
      CLS1JE4          XTD F          102 1 1
      CLS1JE4-R2      EXP A          102 2 1
      CLS1JE4-R4      EXP X          102 3 1
      CLS1JE4-R5      EXP X          102 4 1
      CLS3JS4         XTD F          102 8 1
      DLEEJOB2        SAR 3 LOCAL STD 114 1 1
      DLEEJOB2        SAR 3 LOCAL DDDD 114 2 1
      DLEEJOB2        SAR A          114 3 1
      DLEEJOB2        SAR 3 LOCAL STD 114 4 1
      DLEEJOB2        SAR 3 LOCAL DDD 114 5 1
      DLEEJOB3        SAR 3 LOCAL TEST 114 6 1
      DLEEJOB3        SAR 3 LOCAL STD 114 7 1
      DLEEJOB3        SAR 3 LOCAL DDDD 114 8 1
      FHGBCHJB        SAR F LOCAL STD 107 2 1
      FREDJCL         SAR F LOCAL RPT 107 3 1
      FREDJCL         SAR F LOCAL STD 107 4 1
      FREDJCL         SAR F LOCAL RPT 107 5 1
      FREDJCL         SAR F LOCAL STD 107 6 1
      FREDRPT         SAR F LOCAL STD 107 7 1
  
```

### Field Descriptions

This table describes the data displayed in the Sysout Selection List.

Type of Data	Column Name	Description
SYSOUT group ID	Sysout ID	Name of the SYSOUT group or report as archived

Type of Data	Column Name	Description
Origin	Org	Origin of the output Possible values are: CA View (SAR) CA Deliver (EXP) CA View System Extensions (XTD)
CLASS	C	Original JCL CLASS of the SYSOUT
JCL DEST	Dest	Original JCL DEST of the SYSOUT
JCL FORMS	Forms	Original JCL FORM of the SYSOUT
Tape sequence	Tape Seq	Sequence number of the archival tape
Tape position	Tape Pos	Position of the SYSOUT data set in the archival tape
Tape count	Tape Cnt	Number of the archival tapes used to archive the SYSOUT

### Sysout Selection List: Example 6

This is an example of a Sysout Selection List in ALL mode after you scroll to the right six times. Each field is explained in the table that follows.

```

CA View ALL ----- Sysout Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Sysout ID          Read Date  Time  Print Date  Time
=> *                   *      *      *          *
  CLS1JE4              04/05/2013 15:50
  CLS1JE4-R2          04/05/2013 15:50
  CLS1JE4-R4          04/05/2013 15:50
  CLS1JE4-R5          04/05/2013 15:50
  CLS3JS4              04/05/2013 09:50
  DLEEJOB2            08/28/2013 20:27
  DLEEJOB2            08/28/2013 20:27
  DLEEJOB2            08/28/2013 20:20
  DLEEJOB2            08/28/2013 20:20
  DLEEJOB2            08/28/2013 20:20
  DLEEJOB3            08/28/2013 20:28
  DLEEJOB3            08/28/2013 20:28
  DLEEJOB3            08/28/2013 20:28
  FHGBCHJB           07/02/2013 14:22
  FREDJCL             05/06/2013 09:45 05/26/2013 13:34
  FREDJCL             05/06/2013 09:45
  FREDJCL             05/06/2013 09:41
  FREDJCL             05/06/2013 09:41
  FREDRPT             07/12/2013 10:28 08/06/2013 09:31
  FREDRPT             05/22/2013 16:40 07/12/2013 10:29
    
```



## Field Descriptions

This table describes the data displayed in the Sysout Selection List.

Type of Data	Column Name	Description
SYSOUT group ID	Sysout ID	Name of the SYSOUT group or report as archived
JCL reader date and time	Read Date Time	The JCL reader time—the time the job creating the SYSOUT was read into the system
Last printed date and time	Print Date Time	The last time the SYSOUT was printed

## Selecting Output for Retrieval—ALL Mode

To retrieve one SYSOUT group or one report in the ALL mode Sysout Selection List:

1. Enter the selection code that corresponds to the targeted type of output processing in the SEL (select) column.
2. Press Enter.

The selected output is returned in the appropriate processing function, such as viewing or printing.

## Valid Selection Codes and Descriptions

This table lists and describes all the selection codes that are valid for use in ALL mode.

**Note:** In all cases, CA View takes action on the output ID displayed on the line in which the selection code is entered.

Action	Selection Code	What the Product Does
Browse	S	Selects output for browsing using the default logical view  For AFP reports archived through a SARFSS functional subsystem task, the 3270/AFP browser is invoked. This displays the text of the report, merged with any text strings from AFP overlays.  For more information about (and limitations of) browsing AFP reports on 3270 non-graphics terminals, see Browsing AFP Reports on 3270 Non-Graphics Terminals in the chapter "Browsing Output."
	SA	Displays an AFP report (archived using ACIF) that shows the native AFP records
	V	First displays the View Selection panel, then displays output for browsing
	Vnnn	Displays output for browsing, using the <i>nnn</i> logical view
	?	Displays the Data Set List panel for the SYSOUT/report and allows browsing of individual data sets using the native view. Data Set List panel also displays the original report ID for CA Deliver when using the Archival ID option.
Cleanup	C	Invokes cleanup processing then deletes output that was temporarily loaded on disk without deleting the copy on tape.  You can also use this selection code to clean the status of output that was left OPEN due to a system abend. <b>Note:</b> <ul style="list-style-type: none"> <li>■ This changes the LOAD status of output back to TAPE status.</li> <li>■ You must issue two cleanup commands at least four hours apart to recover the space used.</li> </ul>
Delete	D	Deletes the output

Action	Selection Code	What the Product Does
	DD	Deletes the space on primary disk or optical (secondary) disk allocated for a SYSOUT/report If a report is on primary and secondary disk, the first DD deletes the primary disk copy, and the next DD deletes the secondary disk copy.
	D2	Deletes the space on optical (secondary) disk allocated for a SYSOUT/report If a report is on primary and secondary disk, the D2 deletes only the secondary disk copy.
	DI	Deletes only the space on disk allocated for the page index of a SYSOUT/report If a report's page indexes are not on primary disk, that report is not part of cross-report indexing.
Email	E	Emails the SYSOUT, using the Email Attribute panel
Extract	X	Accesses the CA Balancing Extraction Request panel Specifies that CA Balancing Report Control is to extract fields from this output <b>Note:</b> For more information about extraction, see the <i>CA Balancing System Guide</i> .
Index	I	Creates the JCL for a background job to create a page index for the SYSOUT/report All indexes defined for all logical views of the report are created.
Load	L	Creates the JCL for a background job to load the SYSOUT/report and all of its page indexes from tape to disk
	LI	Creates the JCL for a background job to load <i>only</i> the page indexes for the SYSOUT/report from either tape or optical to disk A report's page indexes must be on primary disk for it to be part of cross-report indexing.
	LT	Creates the JCL for a background job to load the SYSOUT/report, and all of its page indexes, from <i>tape only</i> to disk This can be used to bypass loading from optical disk.

Action	Selection Code	What the Product Does
	LX	Creates the JCL for a background job to load only the page indexes for the SYSOUT/report from <i>tape only</i> to disk  This can be used to bypass loading from optical disk.
Migrate	M	Migrates the output to optical disk with next backup cycle
Print	P	Prints the SYSOUT using the Print Attribute panel. For reports archived from CA Deliver, prints the report using the Deliver Re-Print Attributes panel. Enter A on the command line of the respective print attributes panel to display the respective print attributes alternate panel.
	PI	Prints the index data for a report using the Print Index panel where you can enter print attributes for the SYSOUT data set
	J	Creates JCL for a background job to print the SYSOUT using values from the Print Attribute panel. For reports archived from CA Deliver, creates JCL for a background job to print the report using values from the Deliver Re-Print Attributes panel. Enter A on the command line of the respective print attributes panel to display the respective print attributes alternate panel.
	JI	Creates JCL for a background job to print index data for a report using the Print Index panel where you can enter print attributes for the SYSOUT data set

## Expanded Retention Option and Valid Selection Codes

The following table lists and describes all selection codes that are valid for use in ALL mode with systems in which the CA View Expanded Retention Option (ERO) is installed. In all cases, the CA View action is taken on the output ID displayed on the line in which the selection code is entered.

Action	Selection Code	What the Product Does
Keep Status	K	Keeps the output in permanent status and keeps the status of the location the same as the location where the output resides (that is, DISK or TAPE).

Remove Status	KD	Removes the permanent status indicator Once removed, the status reflects the location of the output (either DISK or TAPE).
Keep Tape Status	KT	Mark the SYSOUT so that its tape copy will be retained according to the ERO table or the ERO initialization parameters.

## The Sysout Selection List in SAR(O) Mode

To display a list of selected SYSOUT groups in the Sysout Selection List, specify valid selection criteria in the Primary Selection for either SAR or SARO mode, and then press Enter.

**Note:** In SAR mode, only SYSOUT groups that match your criteria *and* are available to your DIST ID are displayed.

This is an example of a Sysout Selection List in SARO mode:

```

CA View SARO ----- Sysout Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Sysout ID          Arch Date  Time  Loc   Lines Pages
=> *                   *      *   *    *     *
  CLS1JE4              04/05/2013 16:38 PTAP   745   36
  CLS3JS4              04/05/2013 09:50 PTAP    86    7
  DLEEJOB2             08/28/2013 20:30 PTAP  284    6
  DLEEJOB2             08/28/2013 20:30 PTAP   15    1
  DLEEJOB2             08/28/2013 20:23 PTAP  177    3
  DLEEJOB2             08/28/2013 20:23 PTAP  108    3
  DLEEJOB2             08/28/2013 20:23 PTAP   15    1
  DLEEJOB3             08/28/2013 20:31 PTAP  177    3
  DLEEJOB3             08/28/2013 20:31 PTAP  108    3
  DLEEJOB3             08/28/2013 20:31 PTAP   15    1
  FHGBCHJB            07/05/2013 09:45 PTAP  1796   36
  FREDJCL              05/06/2013 09:45 PTAP   723   21
  FREDJCL              05/06/2013 09:45 PTAP    66    4
  FREDJCL              05/06/2013 09:41 PTAP   723   21
  FREDJCL              05/06/2013 09:41 PTAP    66    4
  FREDRPT              07/12/2013 10:29 PTAP   821   23
  FREDRPT              05/22/2013 16:41 PTAP   723   21
  FREDRPT              05/22/2013 16:37 PTAP   723   21
  FREDRPT              05/06/2013 09:29 PDK2   723   21
  
```

## Field Descriptions

The following table describes the data displayed in the Sysout Selection List:

Type of Data	Column Name	Description
SYSOUT group ID	Sysout ID	Name of the SYSOUT group as archived
Archival date and time	Arch Date Time	Date and time listed output was archived (for all output with the same name, output is listed chronologically with the most recently-archived output listed first)
Location	Loc	Location of the SYSOUT group (see the following table)
Lines	Lines	Number of lines in the SYSOUT group
Pages	Pages	Number of pages in the SYSOUT group

## Sysout Selection List: Example 1

This is an example of a Sysout Selection List in SAR(O) mode after you scroll to the right once. Each field is explained in the table that follows.

```

CA View SAR0 ----- Sysout Selection List -----
Command ==>                                     Scroll ==> HALF

Sel Sysout ID                                     Jobname  Jobid   Gen  Seq Xcode
==> *                                           *      *    *   *   *
  CLS1JE4                                     CLS1JE4  J07611  42
  CLS3JS4                                     CLS3JS4  J07309  42
  DLEEJOB2                                    DLEEJOB2 J05123  54
  DLEEJOB2                                    DLEEJOB2 J05123  54
  DLEEJOB2                                    DLEEJOB2 J05117  54
  DLEEJOB2                                    DLEEJOB2 J05117  54
  DLEEJOB2                                    DLEEJOB2 J05117  54
  DLEEJOB2                                    DLEEJOB2 J05117  54
  DLEEJOB3                                    DLEEJOB3 J05124  54
  DLEEJOB3                                    DLEEJOB3 J05124  54
  DLEEJOB3                                    DLEEJOB3 J05124  54
  FHGBCHJB                                    FHGBCHJB J09858  44      0008
  FREDJCL                                     FREDJCL  J09821  43
  FREDJCL                                     FREDJCL  J09821  43
  FREDJCL                                     FREDJCL  J09818  43
  FREDJCL                                     FREDJCL  J09818  43
  FREDRPT                                    FREDRPT  J03711  47
  FREDRPT                                    FREDRPT  J05842  43
  FREDRPT                                    FREDRPT  J05837  43
  FREDRPT                                    FREDRPT  J09817  43
    
```

## Sysout Selection List: Example 2

This is an example of a Sysout Selection List in SAR(O) mode after you scroll to the right two times. Each field is explained in the table that follows.

```

CA View SAR0 ----- Sysout Selection List -----
Command ==>                                     Scroll ==> HALF

Sel Sysout ID                                     User-Comments
==> *                                             *
  CLS1JE4                                         REPORT INDEX FACILITY
  CLS1JE4-R2
  CLS1JE4-R4
  CLS1JE4-R5
  CLS3JS4
  DLEEJOB2                                       LEGG CHECKED THIS REPORT OVER
  DLEEJOB2
  DLEEJOB2
  DLEEJOB2
  DLEEJOB2
  DLEEJOB3
  DLEEJOB3
  DLEEJOB3
  FHGBCHJB
  FREDJCL
  FREDJCL
  FREDJCL
  FREDJCL
  FREDRPT
  FREDRPT
  
```

### Sysout Selection List: Example 3

This is an example of a Sysout Selection List in SAR(O) mode after you scroll to the right three times. Each field is explained in the table that follows.

```

CA View SAR0 ----- Sysout Selection List -----
Command ==>                                     Scroll ==> HALF

Sel Sysout ID          --- Remaining -- - Remaining Disk- Dsk2
==> *                 Days  Gens  Copy  Days  Gens  Copy  Days
*                   *    *    *    *    *    *    *
  CLS1JE4                77                      999
  CLS1JE4-R2             77                      999
  CLS1JE4-R4             77                      999
  CLS1JE4-R5             77                      999
  CLS3JS4                77                      999
  DLEEJOB2               89                      999
  DLEEJOB2               89                      999
  DLEEJOB3               89                      999
  DLEEJOB3               89                      999
  DLEEJOB3               89                      999
  FHGBCHJB              79                      999
  FREDJCL                78                      999
  FREDJCL                78                      999
  FREDJCL                78                      999
  FREDJCL                78                      999
  FREDRPT                82                      999
  FREDRPT                78                      999
  
```



## Sysout Selection List: Example 4

This is an example of a Sysout Selection List in SAR(O) mode after you scroll to the right four times. Each field is explained in the table that follows.

CA View SAR0 ----- Sysout Selection List -----		Scroll ==> HALF	
Command ==>			
Se1	Sysout ID	D T O I	ERO ID
*	*	* * * *	*
==>	CLS1JE4	Y	*
	CLS3JS4	Y	*
	DLEEJOB2	Y	*
	DLEEJOB2	Y	*
	DLEEJOB2	Y	*
	DLEEJOB2	Y	*
	DLEEJOB2	Y	*
	DLEEJOB3	Y	*
	DLEEJOB3	Y	*
	DLEEJOB3	Y	*
	FHGBCHJB	Y	*
	FREDJCL	Y	*
	FREDJCL	Y	*
	FREDJCL	Y	*
	FREDJCL	Y	*
	FREDRPT	Y	*
	FREDRPT	Y	*

## Sysout Selection List: Example 5

This is an example of a Sysout Selection List in SAR(O) Mode after you scroll to the right five times. Each field is explained in the table that follows.

CA View SAR0 ----- Sysout Selection List -----		Scroll ==> HALF		
Command ==>			Tape	Tape
Se1	Sysout ID	Org C Dest	Seq	Pos
==> *	*	* * *	*	*
				Cnt
				*
	CLS1JE4-R2	EXP A	STD1	102 1 2
	CLS1JE4	XTD F		102 1 1
	CLS3JS4	XTD F		102 8 1
	DLEEJOB2	SAR 3 LOCAL	STD	114 1 1
	DLEEJOB2	SAR 3 LOCAL	DDDD	114 2 1
	DLEEJOB2	SAR A		114 3 1
	DLEEJOB2	SAR 3 LOCAL	STD	114 4 1
	DLEEJOB2	SAR 3 LOCAL	DDDD	114 5 1
	DLEEJOB3	SAR 3 LOCAL	TEST	114 6 1
	DLEEJOB3	SAR 3 LOCAL	STD	114 7 1
	DLEEJOB3	SAR 3 LOCAL	DDDD	114 8 1
	FHGBCHJB	SAR F LOCAL	STD	107 2 2
	FREDJCL	SAR F LOCAL	RPT	107 3 1
	FREDJCL	SAR F LOCAL	STD	107 4 1
	FREDJCL	SAR F LOCAL	RPT	107 5 1
	FREDJCL	SAR F LOCAL	STD	107 6 1
	FREDRPT	SAR F LOCAL	STD	107 7 1
	FREDRPT	SAR F LOCAL	STD	107 8 1

## Sysout Selection List: Example 6

This is an example of a Sysout Selection List in SAR(O) Mode after you scroll to the right six times. Each field is explained in the table that follows.

```

CA View SARO ----- Sysout Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Sysout ID          Read Date  Time  Print Date  Time
==> *                  *         *    *         *
  CLS1JE4              04/05/2013 15:50
  CLS3JS4              04/05/2013 09:50
  DLEEJOB2             08/28/2013 20:27
  DLEEJOB2             08/28/2013 20:27
  DLEEJOB2             08/28/2013 20:20
  DLEEJOB2             08/28/2013 20:20
  DLEEJOB2             08/28/2013 20:20
  DLEEJOB3             08/28/2013 20:28
  DLEEJOB3             08/28/2013 20:28
  DLEEJOB3             08/28/2013 20:28
  FHGBCHJB            07/02/2013 14:22
  FREDJCL              05/06/2013 09:45 05/25/2013 13:34
  FREDJCL              05/06/2013 09:45
  FREDJCL              05/06/2013 09:41
  FREDJCL              05/06/2013 09:41
  FREDRPT              07/12/2013 10:28 08/05/2013 20:09
  FREDRPT              05/22/2013 16:40 07/12/2013 10:39
  FREDRPT              05/22/2013 16:36
  
```

## Selecting SYSOUT for Retrieval—SAR(O) Mode

To retrieve one SYSOUT group:

1. Enter the selection code that corresponds to the desired type of output processing in the SEL (select) column of the Sysout Selection List for SAR or SARO mode.
2. Press Enter.

The targeted SYSOUT group in the appropriate processing function, such as viewing or printing, is returned.

## Valid Selection Codes and Descriptions

This table lists and describes all the selection codes that are valid for use in SAR or SARO mode. In all cases, action is taken on the SYSOUT ID displayed on the line in which the selection code is entered.

Action	Selection Code	What the Product Does
Browse	S	Selects output for browsing using the default logical view  For AFP reports archived through a SARFSS functional subsystem task, the 3270/AFP browser is invoked. The text of the report is displayed, merged with any text strings from AFP overlays.  See Browsing AFP Reports on 3270 Non-Graphics Terminals in the chapter "Browsing Output" for more details about and limitations of browsing AFP reports on 3270 non-graphics terminals.
	V	First displays the View Selection panel, then displays the SYSOUT group for browsing using the view number you entered
	Vnnn	Displays the SYSOUT group for browsing using <i>nnn</i> logical view
	?	Displays the Data Set List panel for the SYSOUT/report and allows browsing of individual data sets using the native view
Cleanup	C	Invokes cleanup processing which deletes output that was temporarily loaded on disk without deleting the copy on tape.  <b>Note:</b> <ul style="list-style-type: none"> <li>■ This selection changes the LOAD status of output back to TAPE status. You can use this selection code to clean the status of output that was left OPEN due to a system abend.</li> <li>■ You must issue two cleanup commands at least four hours apart to recover the space used.</li> </ul>
Delete	D	Deletes the SYSOUT group

Action	Selection Code	What the Product Does
	DD	Deletes the space on primary disk or optical (secondary) disk that is allocated for a SYSOUT/report  If a report is on primary and secondary disk, the first DD deletes the primary disk copy, and the next DD deletes the secondary disk copy.
	DI	Deletes <i>only</i> the space on <i>disk</i> allocated for the page index of a SYSOUT/report  If a report's page indexes are not on primary disk, that report is not part of cross-report indexing.
Email	E	Emails the SYSOUT, using the Email Attribute panel
Extract	X	Accesses the CA Balancing Extraction Request panel, which is used to specify that CA Balancing is to extract fields from this output  For more information, see the <i>CA Balancing System Guide</i> .
Index	I	Creates the JCL for a background job to create a page index for the SYSOUT/report  All indexes defined for all logical views of the report are created.
Load	L	Creates the JCL for a background job to load the SYSOUT/report and all of its page indexes, from tape to disk
	LI	Creates the JCL for a background job to load only the page indexes for the SYSOUT/report (from either tape <b>or</b> optical) to disk  A report's page indexes must be on primary disk for it to be part of cross-report indexing.
	LT	Creates the JCL for a background job to load the SYSOUT/report and all of its page indexes, <i>only</i> from <i>tape</i> to disk  Use LT to bypass loading from optical disk.
	LX	Creates the JCL for a background job to load only the page indexes for the SYSOUT/report (from <i>tape only</i> ) to disk  Use LX to bypass loading from optical disk.

## SAR(O) Selection Codes

The following table lists and describes all selection codes that are valid for use in SAR or SARO mode. In all cases, the CA View action is taken on the output ID displayed on the line in which the selection code is entered.

<b>Action</b>	<b>Selection Code</b>	<b>What the Product Does</b>
Migrate	M	Migrates the output to optical disk with the next backup cycle
Print SARO mode	P	Prints the SYSOUT using the Print Attribute panel. Enter A on the command line to display the Print Attribute alternate panel.
	PI	Prints the index data for a report using the Print Index panel. You can enter print attributes for the SYSOUT data set on this panel.
	J	Creates JCL for a background job to print the SYSOUT using values from the Print Attribute panel. Enter A on the command line to display the Print Attribute alternate panel.
	JI	Creates JCL for a background job to print index data for a report using the Print Index panel. You can enter print attributes for the SYSOUT data set on this panel.
Print SAR mode	P	Prints the SYSOUT using the Print Attribute primary panel
	PA	Prints the SYSOUT using the Print Attribute alternate panel
	PI	Prints the index data for a report using the Print Index panel. You can enter print attributes for the SYSOUT data set
	J	Creates JCL for a background job to print the SYSOUT using values from the Print Attribute panel
	JA	Creates JCL for a background job to print the SYSOUT using values from the Print Attribute alternate panel

---

Jl                      Creates JCL for a background job to print index data for a report using the Print Index panel.  
You can enter print attributes for the SYSOUT data set on this panel.

---

## Expanded Retention Option and Valid Selection Codes

This table lists and describes all selection codes that are valid for use in SAR or SARO mode with systems in which the CA View Expanded Retention Option (ERO) is installed. In all cases, the CA View action is taken on the output ID displayed on the line in which the selection code is entered.

Action	Selection Code	What the Product Does
Keep status	K	Keeps the output in permanent status and keeps the status of the location the same as the location where the output resides (either DISK or TAPE)
Remove status	KD	Removes the permanent status indicator Once removed, the status reflects the location of the output (either DISK or TAPE).

## The Report Selection List in EXP(O) Mode

To display a list of selected output in the Report Selection List:

1. Specify valid selection criteria in the Primary Selection panel for either EXP or EXPO mode
2. Press Enter.

**Note:** In EXP mode, only reports that match your criteria *and* are available to your DIST ID are displayed.

This is an example of a Report Selection List in EXP Mode:

```
CA View EXP ----- Report Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Report ID          Arch Date  Time  Loc   Lines Pages
=> *                   *        *    *     *     *
  IEBGENER             09/27/2013 18:45 DISK  221445 10695
  IEBGENER             09/27/2013 18:45 DISK  221445 10695
  IEBGENER             09/27/2013 18:45 DISK  221445 10695
  IEBGENER             09/27/2013 18:45 DISK  221445 10695
  IEBGENER             09/27/2013 18:45 DISK  221445 10695
  IEBGENER             09/27/2013 18:45 DISK  221445 10695
  IEBGENER             09/27/2013 18:45 DISK  221445 10695
  IEBGENER             09/27/2013 18:45 DISK  221445 10695
***** BOTTOM OF DATA *****
```



## Field Descriptions

This list describes the data displayed in the Report Selection List.

### Report ID

Name of the report as archived

### Arch Date Time

Date and time the listed report was archived.

**Note:** For all reports with the same name or Report ID, reports are listed chronologically with the most recently archived reports listed first.

### Loc

Location of the archived report (see the following table)

### Lines

Number of lines in the listed report

### Pages

Number of pages in the listed report

**Note:** Lines and Pages displayed for Dynamic Reports in the Report Selection List are for the entire report, not for the actual lines and pages received by your DISTID. To see the number of lines and pages received by your DISTID, use the '?' explained in 'Valid Selection Codes and Descriptions'.

## Report Selection List: Example 1

This is an example of a Report Selection List in EXP(O) mode after you scroll to the right once. Each field is explained in the table that follows.

```

CA View EXP ----- Report Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Report ID          Jobname  Jobid   Gen  Seq Xcode
==> *                  *         *     *   *   *
  IEBGENER             CBROERIA J09266   22   3
  IEBGENER             CBROERIA J09266   22   3
  IEBGENER             CBROERIA J09266   22   3
  IEBGENER             CBROERIA J09266   22   3
  IEBGENER             CBROERIA J09266   22   3
  IEBGENER             CBROERIA J09266   22   3
  IEBGENER             CBROERIA J09266   22   3
  IEBGENER             CBROERIA J09266   22   3
  IEBGENER             CBROERIA J09266   22   3
***** BOTTOM OF DATA *****
  
```

## Field Descriptions

This list describes the data displayed in the Report Selection List.

### **Report ID**

Report ID of the report as archived

### **Jobname**

Name of the job that produced the listed report

### **Jobid**

JES subsystem job number

### **Gen**

Number of the archival generation

### **Seq**

Sequence number of the archival tape

### **Xcode**

Any exceptional conditions that resulted when the SYSOUT group was produced

Any code listed is an abbreviation. For example:

- NOTCAT – not cataloged
- SOC4 – 0C4 system abend
- U3044 – user abend
- JCLERR – JCL error
- 0020 – completion code of 20

## Report Selection List: Example 2

The following example shows the Report Selection List in EXP(O) mode after you scroll to the right twice. Each field is explained in the table that follows.

```

CA View EXP ----- Report Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Report ID          Description
==> *                  *
    IEBGENER
    IEBGENER
    IEBGENER
    IEBGENER
    IEBGENER
    IEBGENER
    IEBGENER
    IEBGENER
    IEBGENER
***** BOTTOM OF DATA *****
  
```

### Field Descriptions

This list describes the data displayed in the Report Selection List:

**Report ID**

SYSOUT group ID of the report as archived

**Description**

A 1- to 40-character description of the report, taken from CA Deliver

## Report Selection List: Example 3

This is an example of a Report Selection List in EXP(O) mode after you scroll to the right three times. Each field is explained in the table that follows.

```

CA View EXP ----- Report Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Report ID          User-Comments
==> *                  *
    IEBGENER
    IEBGENER
    IEBGENER
    IEBGENER
    IEBGENER
    IEBGENER
    IEBGENER
    IEBGENER
  
```

## Field Descriptions

This list describes the data displayed in the Report Selection List:

### Report ID

Report ID of the report as archived

### User-Comments

User can enter any text here, such as comments or important notes to be saved with the report

## Report Selection List: Example 4

This is an example of a Report Selection List in EXP(O) mode after you scroll to the right four times. Each field is explained in the table that follows.

```
CA View EXP ----- Sysout Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Report ID          --- Remaining -- - Remaining Disk- Dsk2
==> *                  Days  Gens  Copy  Days  Gens  Copy  Days
IEBGENER                2          2          999
IEBGENER                2          2          999
IEBGENER                2          2          999
IEBGENER                2          2          999
IEBGENER                2          2          999
IEBGENER                2          2          999
```

## Field Descriptions

This list describes the data displayed in the Report Selection List:

### Report ID

SYSOUT group ID of the report as archived

### Remaining Days, Gens, Copies

The total remaining time that the report will be stored by CA View, shown in days, generations, or copies

**Note:** The NGEND and NGENT initialization parameters and the ERO (Expanded Retention Option) table statements set the values.

### Remaining Disk: Days, Gens, Copies

The remaining time that the report will be stored by CA View on primary disk, shown in days, generations, or copies

**Note:** The NGEND and NGENT initialization parameters and the ERO table statements set the values.

### Dsk2 Days

The remaining time that the SYSOUT or report will be stored by CA View on secondary disk or possibly tape

## Report Selection List: Example 5

This is an example of a Report Selection List in EXP(O) Mode after you scroll to the right five times. Each field is explained in the table that follows.

```

CA View EXP ----- Report Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Report ID          D T O I      ERO ID
*                      * * * *      *
=> IEBGENER            Y   Y
   IEBGENER            Y   Y
   IEBGENER            Y   Y
   IEBGENER            Y   Y
   IEBGENER            Y   Y
   IEBGENER            Y   Y
   IEBGENER            Y   Y
   IEBGENER            Y   Y
***** BOTTOM OF DATA *****
    
```

## Field Descriptions

This table describes the data displayed in the Report Selection List:

### Report ID

Report ID of the report as archived

### D

Whether the report is currently on disk (Y or N)

### T

Whether the report is currently on tape (Y, B, or N)

Y - Indicates the report is only on the primary and optional duplex tape

B - Indicates the report is on the primary *and* optional duplex tape and the disaster recovery tape

### O

Whether the report is currently on optical disk (Y or N)

### I

Whether the report is currently indexed and the index is resident on disk (Y or N)

### ERO ID

The ERO table entry that is controlling the retention specifications for this report

## Report Selection List: Example 6

This is an example of a Report Selection List in EXP(O) mode after you scroll to the right six times. Each field is explained in the table that follows.

```

CA View EXP ----- Report Selection List -----
Command ==>
                                Scroll ==> HALF
                                Tape Tape Tape
                                Seq Pos  Cnt
Sel Report ID
=> *                               * * *
    IEBGENER                       EXP L   COOK
    IEBGENER                       EXP L   COOK
    IEBGENER                       EXP L   COOK
    IEBGENER                       EXP L   COOK
    IEBGENER                       EXP L   COOK
    IEBGENER                       EXP L   COOK
    IEBGENER                       EXP L   COOK
    IEBGENER                       EXP L   COOK
***** BOTTOM OF DATA *****
    
```

## Field Description

This list describes the data displayed in the Report Selection List:

### Report ID

Report ID of the report as archived

### Org

Origin of the output

### C

Original JCL CLASS of the SYSOUT

### Dest

Original JCL DEST of the SYSOUT

### Forms

Original JCL FORM of the SYSOUT

### Tape Seq

Sequence number of the archival tape

### Tape Pos

Position of the SYSOUT data set in the archival tape

### Tape Cnt

Number of the archival tapes used to archive the SYSOUT

## Report Selection List: Example 7

This is an example of a Report Selection List in EXP(O) mode after you scroll to the right seven times. Each field is explained in the table that follows.

```

CA View EXP ----- Report Selection List -----
Command ==>                                         Scroll ==> HALF

Sel Report ID          Read Date  Time  Print Date  Time
=> *                   *         *         *         *
  IEBGENER             09/27/2013 18:42
  IEBGENER             09/27/2013 18:42
  IEBGENER             09/27/2013 18:42
  IEBGENER             09/27/2013 18:42
  IEBGENER             09/27/2013 18:42
  IEBGENER             09/27/2013 18:42
  IEBGENER             09/27/2013 18:42
  IEBGENER             09/27/2013 18:42
***** BOTTOM OF DATA *****

```

## Field Descriptions

This list describes the data displayed in the Report Selection List:

**Report ID**

Report ID of the report as archived

**Read Date Time**

The JCL reader time—the time the job creating the SYSOUT was read into the system

**Print Date Time**

The last time the report was printed

## Selecting Reports for Retrieval—EXP(O) Mode

To retrieve a report:

- Enter the selection code that corresponds to the desired type of output processing in the SEL (select) column of the Report Selection List for EXP(O) mode
- Press Enter.

The selected output is returned in the appropriate processing function, such as viewing or printing.

## Valid Selection Codes and Descriptions

This table lists and describes all selection codes that are valid for use in EXP or EXPO mode. In all cases, action is taken on the Report ID displayed on the line in which the selection code is entered.

Action	Selection Code	What the Product Does
Browse	S	<p>Selects output for browsing, using the default logical view</p> <p>For AFP reports archived through a SARFSS functional subsystem task, the 3270/AFP browser is invoked. This displays the text of the report, merged with any text strings from AFP overlays.</p> <p><b>Note:</b> For more information about the limitations of browsing AFP reports on 3270 non-graphic terminals, see Browsing AFP Reports on 3270 Non-Graphics Terminals in the chapter "Browsing Output".</p>



Action	Selection Code	What the Product Does
	V	First displays the View Selection panel, then displays the report for browsing
	Vnnn	Displays the report for browsing using logical view <i>nnn</i>
	?	Displays the Data Set List panel for the SYSOUT/report and allows browsing of individual data sets using the native view. Data Set List panel also displays the original report ID for CA Deliver when using the Archival ID option. <b>Note:</b> In EXP mode, the Data Set list shows the actual lines and pages received by your DISTID.
Cleanup	C	Invokes cleanup processing; it deletes output that was temporarily loaded on disk without deleting the copy on tape  This selection changes the LOAD status of the output back to TAPE status.  You can also use this selection code to clean the status of output that was left OPEN due to a system abend.  You must issue two cleanup commands, at least four hours apart, to recover the space used. <b>Note:</b> If a report has a location of PTMP and has a report index, the report index is deleted if it was reloaded with the report data.
Delete	D	Deletes the report
	DD	Deletes the space on primary disk or optical (secondary) disk allocated for a SYSOUT/report  If a report is on primary and secondary disk, the first DD deletes the primary disk copy, and the next DD deletes the secondary disk copy. <b>Note:</b> If a report has a location of PTMP and has a report index, the report index is deleted if it was reloaded with the report data.
	DI	Deletes <i>only</i> the space on <i>disk</i> allocated for the page index of a report  If a report's page indexes are not on primary disk, that report is not a part of cross-report indexing.
Email	E	Emails the report, using the Email Attribute panel

Action	Selection Code	What the Product Does
Extract	X	<p>Accesses the CA Balancing Extraction Request panel that is used to specify that CA Balancing is to extract fields from this report</p> <p><b>Note:</b> For more information about extraction, see the <i>CA Balancing System Guide</i>.</p>
Index	I	<p>Creates the JCL for a background job to create a page index for the SYSOUT/report</p> <p>All indexes defined for all logical views of the report are created.</p>
Load	L	Creates the JCL for a background job to load the SYSOUT/report, and all of its page indexes, from tape to disk.
	LI	<p>Creates the JCL for a background job to load <i>only</i> the page indexes for the report (from either tape or optical) to disk</p> <p>A report's page indexes must be on primary disk for it to be part of cross-report indexing.</p>
	LT	<p>Creates the JCL for a background job to load the report, and all of its page indexes, <i>only</i> from <i>tape</i> to disk</p> <p>LT can be used to bypass loading from optical disk.</p>
	LX	<p>Creates the JCL for a background job to load <i>only</i> the page indexes for the report (from <i>tape only</i>) to disk</p> <p>LX can be used to bypass loading from optical disk.</p>

## EXP or EXPO Selection Codes

This table lists and describes all selection codes that are valid for use in EXP or EXPO mode. In all cases, the CA View action is taken on the output ID displayed on the line in which the selection code is entered.

Action	Selection Code	What the Product Does
Migrate	M	Migrates the report to optical disk with the next backup cycle

Action	Selection Code	What the Product Does
Print EXPO mode	P	Prints the report using the Deliver Re-Print Attributes panel. Enter A on the command line to display the Deliver Re-Print Attributes alternate panel.
	PI	Prints the index data for a report using the Print Index panel Use the Print Index panel to enter print attributes for the SYSOUT data set.
	J	Creates JCL for a background job to print the report using values from the Print Attribute panel. Enter A on the command line to display the Deliver Re-Print Attributes alternate panel.
	JI	Creates JCL for a background job to print index data for a report using the Print Index panel Use the Print Index panel to enter print attributes for the SYSOUT data set
PRINT EXP mode	P	Prints the report using the Deliver Re-Print Attributes primary panel
	PA	Prints the SYSOUT using the Deliver Re-Print Attributes alternate panel
	PI	Prints the index data for a report using the Print Index panel where you can enter print attributes for the SYSOUT data set
	J	Creates JCL for a background job to print the report using values from the Deliver Re-Print Attributes panel
	JA	Creates JCL for a background job to print the report using values from the Deliver Re-Print Attributes alternate panel
	JI	Creates JCL for a background job to print index data for a report using the Print Index panel Use the Print Index panel to enter print attributes for the SYSOUT data set

## Expanded Retention Option and Valid Selection Codes

This table lists and describes all selection codes that are valid for use in EXP or EXPO mode with systems in which the CA View Expanded Retention Option (ERO) is installed. In all cases, the CA View action is taken on the Report ID displayed on the line in which the selection code is entered.

<b>Action</b>	<b>Selection Code</b>	<b>What the Product Does</b>
Keep status	K	Keeps the report in permanent status and keeps the status of the location the same as the location where the output resides (DISK or TAPE)
Remove status	KD	Removes the permanent status indicator Once the indicator is removed, the status becomes that of the current location of the output (DISK or TAPE).

## JOB Selection List in JOB Mode

To display a list of selected jobs in the JOB Selection List, specify valid selection criteria in the JOB mode Primary Selection panel, and press Enter.

A sample JOB Selection List in JOB mode follows:

```

CA View JOB ----- Job Selection List -----
Command ==>                                     Scroll ==> CSR

```

Sel	Jobname	Jobid	Start Date	Time	End Date	Time	Xcode	Lines
=>	<SEL>	*	<SEL>	<SEL>	*	*	*	*
	DEFDTE54	JOB02528	04/30/2015	09:06:52	04/30/2015	09:06:52		1280
	RPTXTDFS	JOB15798	05/01/2015	09:22:28	05/01/2015	09:22:28		7680
	RPTXTDFS	JOB15729	05/01/2015	09:19:54	05/01/2015	09:19:54		7680
	RPTXTDFS	JOB15706	05/01/2015	09:18:27	05/01/2015	09:18:27		7680
	RPTXTD01	JOB22440	05/01/2015	12:57:14	05/01/2015	12:57:15		7680
	RPTXTD01	JOB22388	05/01/2015	12:55:11	05/01/2015	12:55:12		7680
	RPTXTD01	JOB17198	05/01/2015	10:12:13	05/01/2015	10:12:13		7680
	RPTXTD01	JOB15209	05/01/2015	08:02:01	05/01/2015	08:02:01		7680
	RPTXTD01	JOB14244	05/01/2015	08:02:01	05/01/2015	08:02:01		7680
	RPTXTD01	JOB00112	04/30/2015	20:47:45	04/30/2015	20:47:45		7680
	RPTXTD01	JOB62034	04/30/2015	20:47:45	04/30/2015	20:47:45		7680
	RPTXTD01	JOB61987	04/30/2015	20:47:45	04/30/2015	20:47:45		7680
	RPTXTD01	JOB61959	04/30/2015	20:47:45	04/30/2015	20:47:45		7680
	RPT0000T	JOB34502	04/30/2015	00:22:39	04/30/2015	00:22:40		8012
	RPT0000T	JOB27830	04/29/2015	18:32:49	04/29/2015	18:32:50		8011
	RPT00001	JOB00255	04/30/2015	23:20:55	04/30/2015	23:21:02	0012	79668
	RPT00001	JOB34401	04/30/2015	00:19:37	04/30/2015	00:19:41	0012	79669
	RPT00001	JOB27755	04/29/2015	18:29:47	04/29/2015	18:29:51	0012	79668
	RPT00001	JOB27708	04/29/2015	18:26:30	04/29/2015	18:26:34	0012	79668
	RPT00001	JOB27657	04/29/2015	18:23:11	04/29/2015	18:23:15	0012	79668

Descriptions for each column follow:

- Jobname – The job that created the sysout
- Jobid – The JES jobid of the job
- Start Date/Time – The date and time when the job started
- End Date/Time – The date and time that the job ended
- Lines – The number of lines in the output
- Xcode – The exceptional conditions for the job

**Example 1**

The following example shows the Job Selection List after you scroll to the right once:

```

CA View JOB ----- Job Selection List -----
Command ==>
Sel Jobname Sub Date Time System Class User ID Scroll ==> CSR
Lines Pages
=> <SEL> * * * * * * *
DEFDTE4 04/30/2015 09:06:48 XX99 N USER999 1280 64
RPTXTDFS 05/01/2015 09:22:28 XX99 N USER999 7680 384
RPTXTDFS 05/01/2015 09:19:54 XX99 N USER999 7680 384
RPTXTDFS 05/01/2015 09:18:26 XX99 N USER999 7680 384
RPTXTD01 05/01/2015 12:57:14 XX99 G USER999 7680 384
RPTXTD01 05/01/2015 12:55:11 XX99 G USER999 7680 384
RPTXTD01 05/01/2015 10:12:12 XX99 G USER999 7680 384
RPTXTD01 05/01/2015 08:48:34 XX99 G USER999 7680 384
RPTXTD01 05/01/2015 08:02:00 XX99 G USER999 7680 384
RPTXTD01 04/30/2015 23:05:07 XX99 G USER999 7680 384
RPTXTD01 04/30/2015 20:54:24 XX99 G USER999 7680 384
RPTXTD01 04/30/2015 20:50:27 XX99 G USER999 7680 384
RPTXTD01 04/30/2015 20:47:44 XX99 G USER999 7680 384
RPT0000T 04/30/2015 00:22:39 XX99 N USER999 8012 387
RPT0000T 04/29/2015 18:32:49 XX99 N USER999 8011 387
RPT00001 04/30/2015 23:20:55 XX99 N USER999 79668 3843
RPT00001 04/30/2015 00:19:37 XX99 N USER999 79669 3843
RPT00001 04/29/2015 18:29:47 XX99 N USER999 79668 3843
RPT00001 04/29/2015 18:26:29 XX99 N USER999 79668 3843
RPT00001 04/29/2015 18:23:10 XX99 N USER999 79668 3843
    
```

Descriptions for each column follow:

- Submit Date/Time – The date and time when the job was submitted
- System – The system on which the job ran
- Class – The JES output class
- User Id – The user ID that submitted the job
- Lines *and* Pages – The number of lines and pages in the output

**Example 2**

The following example shows the Job Selection List after you scroll to the right twice:

```

CA View JOB ----- Job Selection List -----
Command ==>                                     Scroll ==> CSR

Sel  Jobname  Assigned  User-Comments
==>  <SEL>    *          *
      DEFDTES4          TEST USER COMMENTS
      RPTXTDFS          TEST USER COMMENTS 2
      RPTXTDFS
      RPTXTDFS
      RPTXTD01          TEST USER COMMENTS
      RPTXTD01
      RPTXTD01
      RPTXTD01          TEST USER COMMENTS LONG LINE.....
      RPTXTD01
      RPTXTD01
      RPTXTD01
      RPTXTD01
      RPTXTD01
      RPT0000T          JOE RERAN THIS JOB.
      RPT0000T
      RPT00001
      RPT00001
      RPT00001
      RPT00001
      RPT00001

```

Descriptions for each column follow:

- Assigned – The user Id to whom the job or report is assigned for follow-up
- User-Comments – Any user comments, which are saved with the job

## Retrieving Jobs in Job Mode

To retrieve a Job, go to the SEL (select) column of the Job Selection List for JOB mode, type the selection code for the type of output processing you want, and press Enter.

The output appears in the selected processing function, such as viewing or printing.

The following table describes the selection codes for JOB mode. In all cases, CA View takes action on the JOBNAME on the line where you enter the selection code.

Action	Selection Code	What the Product Does
Assign	A	Adds the users ID in the assigned field for the job

Browse	S ?	Selects output for browsing Displays the Data Set List panel for the job. Allows browsing of individual data sets in the native view
Email	E	Emails all the reports or the selected DDs for the job
Load	L	Creates the JCL for a background job to load from tape to disk all SYSOUTs and reports for the job
Print JOB mode	P  J	Prints all reports for the job using the JOB Mode Print Attributes panel* Creates JCL for a background job to print all reports for the job using values from the JOB Mode Print Attribute panel*
Unassign	U	Removes the user ID from the assigned field. Anyone with update access to the job can remove the assigned user

\*Enter A on the command line to display the Job Print Attributes alternate panel.



## Using the Selection List Commands

In addition to the system-wide commands, CA View provides a set of Selection List commands that operate in CA View Selection Lists.

To invoke these commands, enter them on the command line of any Selection List display. The Selection List commands are:

**CONFIRM**

Enables or disables the Confirm Delete panel display

**LOCATE**

Locates a SYSOUT ID, Report ID, or Jobname in the selection list

**REDISP (Redisplay)**

Refreshes the SYSOUT, Report, or JOB Selection List

If you enter REDISP ON on the command line of a selection list, press Enter to invoke this function.

**SUBMIT**

Submits any accumulated JCL rather than waiting for CA View to end

**SUBMIT CANCEL**

Cancel any accumulated JCL

**SORT**

Sorts the selections list

### CONFIRM Command

The CONFIRM command enables or disables the display of the Confirm Delete panel when a SYSOUT selection code of D is used.

**Note:** The default setting for this command is ON. It is effective only during the current Sysout Selection List display session.

To bypass subsequent Confirm Delete panels, enter any nonblank character in the Set delete confirmation off field. You can enable or disable the display of Confirm Delete panels by using the CONFIRM command.

## Disable Confirm Delete Panel

To disable the Confirm Delete panel, enter this value on the command line of any Sysout or Report Selection list:

```
CONFIRM OFF
```

After this command has been entered, entering a subsequent selection code of D immediately deletes the SYSOUT group selected without CA View requesting user confirmation.

## Re-enable Confirm Delete Panel

To re-enable the Confirm Delete panel display, enter this value on the command line of any Sysout or Report Selection List as follows:

```
CONFIRM ON
```

After you enter this command, you can enter a subsequent selection code of D to cause CA View to request user confirmation before deleting the selected SYSOUT ID or Report ID.

## Deleting Output

The online system can delete output so that it is not available for retrieval. If the Confirm ON command has been issued for an online session, you are prompted to confirm your delete request through the Confirm Delete panel. Press Enter to confirm the delete request or END (PF 3/15) to cancel the delete request.

## LOCATE Command

The LOCATE command locates a SYSOUT group, report, or job in the selection list. Enter this command on the command line of any selection list as follows:

LOCATE *id*

### Syntax

where *id* specifies the ID or partial ID of the SYSOUT group, report, or job.

### Rules

These rules apply to the LOCATE command:

- You can abbreviate the LOCATE command as LOC or L.
- If the Report-Id contains quotes, you must enclose it in single quotes. Any single quote in Report-id must be entered as a pair of single quotes because a non-paired single quote will end the ID. For example, if the value is JIM'S REPORT it must be entered as 'JIM''S REPORT'.
- You can use a partial operand. With a partial operand, the first ID is located that matches the operand, regardless of the other characters in the ID.
- If the specified ID is not in the list, the SYSOUT group, report, or job that immediately precedes the specified ID is displayed at the top of the screen.

### Example 1

To locate the ID Z27XY01, enter this value on the command line:

```
locate z27xy01
```

### Example 2

To locate the first output selection with an ID that begins with W, enter this value on the command line:

```
l w
```

## REDISPLAY Command

The REDISP (redisplay) command refreshes the Sysout or Report Selection List panel. Enter this command on the command input line of any selection list as follows:

REDISP

### REDISPLAY With the Enter Key

You can cause a redisplay by pressing Enter, if you do one of the following:

- Set the REDISP initialization parameter to YES
- Enter REDISP YES or REDISP ON on the command line of any selection list
- REDISP NO and REDISP OFF turn this option off.

The initialization parameter REDISP sets a default for all users, and the online REDISP command allows each user to alter the function for an online session.

### Command Rule

You can abbreviate the REDISP command as RED.

## SUBMIT Command

The SUBMIT command submits any JCL that has been created since the previous SUBMIT command was issued or since the beginning of the current CA View session. Enter this command on the command input line of any Sysout selection list as follows:

SUBMIT

**Important!** If the SUBMIT command is not issued, the JCL created by selection code options J, I, and L is automatically submitted when you exit the product.

### Command Rule

You can abbreviate the SUBMIT command as SUB.

### Example

To submit all JCL that has been created, enter:

SUBMIT

A message is returned that the JCL has been submitted.

## SUBMIT CANCEL Command

The SUBMIT CANCEL command cancels any JCL that has been created and *not yet submitted*.

Enter this command on the command input line of any Sysout or Report Selection List as follows:

```
SUBMIT CANCEL
```

**Important!** JCL created by selection code options J, I, and L is automatically submitted when you exit the product.

### Command Rule

You can abbreviate the SUBMIT CANCEL command as SUB CAN.

### Example

To cancel any JCL that has been created, enter this value on the command line.

```
SUBMIT CANCEL
```

## SORT Command

The SORT command sorts the selection list and displays the sysout/report, identifier, archive date and time, location, lines, pages, job name, job number, generation, exception code, and more. You can sort up to two fields, the syntax of the sort command is as follows.

```
SORT field1 field2
```

This table identifies the field name that can be referenced on the SORT command, and the predefined sort sequence used to order the data.

Field Name	Sort sequence	Description
ACCESS ACCDATE	Descending	Sort by last access date and time
C CLASS	Ascending	Sort by print class
DATE ARCDATE	Descending	Sort by archive date and time
DESC	Ascending	Sort by description
DEST	Ascending	Sort by print destination
FORMS	Ascending	Sort by print forms
GEN	Ascending	Sort by generation number
ID REPORT SYSOUT	Ascending	Sort by sysout/report identifier

<b>Field Name</b>	<b>Sort sequence</b>	<b>Description</b>
JOB JOBNAME	Ascending	Sort by job name
JOBID	Ascending	Sort by job number
LINES	Ascending	Sort by number of lines
LOC LOCATION	Ascending	Sort by report location
ORG ORIGIN	Ascending	Sort by report origin
PAGES	Ascending	Sort by number of pages
PRINT PRTDATE	Descending	Sort by print date and time
READER RDRDATE	Descending	Sort by reader date and time
TAPE TAPESEQ	Ascending	Sort by tape sequence number
USERFLD	Ascending	Sort by user comments
XCODE	Ascending	Sort by exception code

To sort the selection list by job name, enter:

Command ==> sort job

To sort the selection list by archive date, time and pages, enter:

Command ==> sort date pages

After the list is sorted, use the LOCATE command to review the list based on the first or the sort field. For example, if the list is sorted by jobname, the "LOCATE PROD" command will scroll the list to this entry or to any entry with a jobname of PROD.

If the Sort command is entered without any field, the standard dynamic list which is sequenced by SYSOUT or report identifier will be displayed.

# Chapter 4: Loading and Deleting Output

---

This section describes how to load output from tape to disk for browsing, printing, or emailing and how to delete output.

This section contains the following topics:

[Load Output to Disk](#) (see page 127)

[Delete the Output](#) (see page 128)

## Load Output to Disk

The online system can temporarily load output from tape to disk for browsing, printing, or emailing, like any disk-archived output. To do this, you create JCL (with the help of CA View) that runs a background job that temporarily loads the output to disk. Any output that is shown as being on TAPE in your Selection List is valid for being loaded from tape to disk. When you issue a load command for a JOB, all SYSOUTs and reports for the JOB are loaded back into the database.

Access to this facility is based on permissions. Contact your system administrator if you are unable to access a specific tape through CA View.

1. (For SYSOUTs and reports) Determine the location of the output to be loaded, as follows:
  - Locate its ID in the Selection List.
  - Look at its location in the LOC field.

You can load the output from tape to disk if CA View lists the output as being physically located on tape.

2. (For JOBS) Select the JOB for browse, email, or print, and verify that the online message "Load Job to disk" appears.

If this message appears, you can use the L command to load all SYSOUTs and reports for the JOB. If this message does not appear, then the SYSOUTs and reports already exist on disk, so you do not need to load them.

3. Enter *L* to select the output you want to load, and then press Enter.

The JCL created message appears in the upper-right corner of the panel.

4. To submit the JCL, do one of the following actions:

- Enter SUB on the command line.
- When you log off, enter JOB statement information as prompted.

The job is automatically submitted.

## Delete the Output

The online system can delete output so that it cannot be retrieved.

**Note:** The Delete command is not supported in JOB mode.

1. Enter *D* in the SEL (select) column of the output you want to delete in a Sysout or Report Selection List. Press Enter.

If you have *not* issued the CONFIRM OFF command (CONFIRM ON is the default condition), the Confirm Delete panel appears and you can cancel your delete request.

If you previously issued the CONFIRM OFF command, your selected output is deleted without displaying the Confirm Delete panel.

## Use the Confirm Delete Panel

1. To display the Confirm Delete panel, enter selection code *D* in the output selection panel, and specify *CONFIRM ON* on the command line for the current session.

The Confirm Delete panel appears.

```
CA View ALL ----- Confirm Delete -----  
Command ==>  
  
Sysout ID:      SWILARHA  
Jobname:       SWILARHA  
Jobid:         JOB05758  
Archival Date: 08/24/2013  
Archival Time: 14:18:55  
  
Set delete confirmation off  
  
Press ENTER key to confirm delete request.  
Enter END command to cancel delete request.
```

To bypass subsequent Confirm Delete panels, enter any nonblank character in the Set delete confirmation off field. You can enable or disable the display of Confirm Delete panels using the CONFIRM command.

1. Do one of the following actions to confirm or cancel the delete process:
  - Press Enter to confirm the delete request for the output indicated in the upper-left corner of the panel.
  - Enter END on the command line, and then press Enter to cancel the delete request.



# Chapter 5: Browsing Output

---

When you retrieve output for browsing, these conditions apply to the displayed output:

- Scrolling works in any direction, in half or full display screen increments, or by any number of lines or columns. Scrolling is performed by the UP, DOWN, LEFT, and RIGHT scrolling commands.
- General functions are performed when browse commands are entered on the command line of the display. These commands are described in the Browse Commands section later in this chapter.
- If the page-marking option (PAGEMARK=YES) was in effect at the time output was archived, the output pages have the characters SARPAGE preceding the page number.

This section contains the following topics:

- [Logical Views and Browsing](#) (see page 130)
- [Selection Codes for Browsing](#) (see page 131)
- [Choosing a Logical View for Browsing](#) (see page 132)
- [Accessing Output for Browsing](#) (see page 135)
- [The Browse Facility Display Screen](#) (see page 137)
- [Using Browse Labels](#) (see page 138)
- [Browsing Data Sets for a SYSOUT Group or Job](#) (see page 139)
- [Browse Commands](#) (see page 141)
- [Browsing AFP Reports on 3270 Non-Graphics Terminals](#) (see page 163)
- [Assigning Color to Reports and Online Panels](#) (see page 165)
- [Creating and Using Filters](#) (see page 165)
- [Annotations and Bookmarks](#) (see page 186)
- [Using Bookmarks and Annotations](#) (see page 189)
- [Annotation/Bookmark Selection List](#) (see page 192)
- [Annotation Definition Panel](#) (see page 194)

## Logical Views and Browsing

A *logical view* is the physical form that SYSOUT or report data takes when you view it on screen. A logical view is also the mechanism by which you control the appearance of the output. For example, using logical views, you can customize the order of the data columns of a columnar report.

Along with the standard logical view, which is SPF-like and shows entire records, including all fields in original order, you can define other logical views that are identified by name.

These are some of the elements you can control for a logical view:

- Number of data columns
- Location or order of data columns
- Headings
- Whether carriage control characters are displayed

The three types of views are:

- *Public*—Provides access to the selected report for all viewers
- *Private*—Provides access to the user who created the selected report
- *Global*—Provides a view that applies to many reports

For more information about view types, see the chapter "Creating Logical Views."

You attach a logical view to specific output by defining it for a SYSOUT group or a report. Then the output you have chosen for browsing in the defined logical view then automatically displays.

**Note:** Logical views apply to all modes except JOB mode.

---

## Selection Codes for Browsing

In any Sysout or Report Selection List, enter the selection codes S, V, *Vnnn*, or ? to control the browse mode of retrieved output, as follows.

**Note:** For JOB mode, *only* the selection codes S and ? apply, and *only* native views apply.

### S

Use the S selection code as follows:

- If a logical view default is defined for the output, your output appears for browsing. The logical view used is the first one that has the default attribute for which your access is authorized.
- If logical views are defined for the output, but no default view can be located, the View Selection menu appears (see the following section)
- If logical views are not defined for the output, your output is displayed for browsing. The data appears in the standard (native) SPF-like browse in which the data records are displayed unaltered.

### V

A View Selection menu is displayed from which you can choose a logical view for displaying output (see the following section)

### *Vnnn*

The logical view *nnn* is used for browsing output, where *nnn* can be:

#### 0

The standard (native) browse

#### 1–255

The number of logical views as indicated on the View Selection menu (this may reference a private, public, or global view)

### ?

A Data Set List panel is displayed from which you can browse individual data sets using the native view

**Note:** For more information, see the topic Browsing Data Sets for a SYSOUT Group.

## Choosing a Logical View for Browsing

The View Selection menu allows you to specify the name of the logical view that is to be used for presenting selected output.

**Note:** Logical views apply to all modes except JOB mode.

To access the View Selection menu, Follow these steps::

1. Select a report to browse.
2. Specify print attributes subsequent to selecting a report to print.

This is an example of the View Selection menu:

```
CA View EXPO ----- View Selection -----
Command ==>                                     Scroll ==>HALF

      Index Value ==>

Sel Num Acc View ID                               Description
--  ---  ---  ---
000 PUB REPORT1                                  NATIVE BROWSE
001 PUB                                           VIEW INDEXED BY DIVISION AND NAME
002 PUB                                           VIEW INDEXED BY TITLE
003 PUB                                           VIEW INDEXED BY STATE
004 PUB                                           VIEW INDEXED BY DATE
005 PUB                                           VIEW INDEXED BY NAME
006 PUB
007 PUB
008 PRV                                           USER PRIVATE LOGICAL VIEW
```

## Field Descriptions

This list describes the fields in the View Selection menu:

**Command**

Positions the selection list

Enter L name to position the list to an entry that starts with the characters specified by name.

**Scroll**

The type of scrolling to be used

**Index Value**

The value of the index you want to see

This selection allows you to bypass the Page Index Selection List.

**Sel**

Enter S to select a logical view

**Num**

Number corresponding to the logical view

**Acc**

The type of logical view access:

PRV—private logical view

PUB—public logical view

**View ID**

The ID of the SYSOUT or report for this logical view

**Description**

The user-specified description of the logical view except for the system assigned  
NATIVE BROWSE

## Using the View Selection Menu

To choose a logical view from the View Selection menu so that selected output is displayed with that logical view, do *one* of the following:

- Enter the number corresponding to the name of the logical view that you want on the command line, and then press Enter.
- Enter *S* next to the targeted view, then press Enter.

For example, this command selects the CA View default or native logical view:

```
Command ==>> 0
```

When the panel is displayed, views are listed in the following order:

- All of the user's private logical views
- All of the public views
- Global views

## When Is the View Selection Menu Displayed?

The View Selection menu is displayed when a default logical view is not defined for the chosen output and you have defined at least one logical view for that SYSOUT or report.

The two specific conditions under which the View Selection menu is automatically displayed are:

- Code *V* is entered in an output Selection List.  
An implied hierarchy determines which view is used. When you enter a view number, the private views are searched first, followed by the public views, and then the global views. For example, if the same number exists for private, public, and global views, the private view is used.
- Code *S* is entered in an output Selection List when one or more logical views exist for your chosen output, but none of them has the default attribute.

## Page Index Selection Lists

If page separation criteria are included in the logical view definition, the Page Index Selection List is displayed when you select that logical view for browsing specific output. This is an example:

```

CA View  ALL  -- Page Index Selection List For SWILSRUG -----
Command ==>                                         Scroll ==> PAGE

Sel Division  Name
*** ALL PAGES ***
  100         SECTION1
  200         SECTION2
  300         SECTION3
  400         SECTION4
  500         SECTION5
***** BOTTOM OF DATA *****

```

By using this menu, you can specify the portions of the selected output to be displayed based on actual index field contents (page separation criteria). For example, if the logical view chosen from the View Selection menu has a page separation index named SECTION2, you can select that section of output.

## Accessing Output for Browsing

The following considerations apply to archived output that has been retrieved. These considerations apply to all modes, unless noted otherwise.

- You have immediate access to the output if either of the following criteria is met.
  - The output resides on disk.
  - The output has been temporarily loaded to disk.
- The system operator is notified to mount the tape if both of the following criteria are met:
  - The output resides only on tape.
  - You are authorized for online tape mounts.

**Note:** Your terminal remains locked until the tape has been mounted and your output has been copied to disk.

- You have access to the output if all the following criteria are met:
  - The output resides only on tape1.
  - Your site has the Expanded Access Server for Tape and Robotics
  - The report is specified by ERO parameter VIEWTAPE as being viewable from tape:

- For JOB mode, these considerations apply:
  - You have immediate access if only one of the reports for the job resides on tape *and* if you are using EAS.
  - If two or more of the reports reside on tape, you must load them back to the database, using SARBCH/LOAD.

<sup>1</sup>Only TSO and ISPF/SPF online allow tape mounting.

<sup>2</sup>For all TSO users (both native TSO and ISPF/SPF), your authorization for online tape mounts is determined by how your system administrator configured your account with the TSO ACCOUNT command. Alternatively, your site may choose to disable all online tape mounts for CA View with the MOUNT=NO option.



## The Browse Facility Display Screen

The following display screen header lines appear whenever you browse output:

```
CA View   BROWSE - outputid ---- Rec nnnnnn Pg pppppp.ppp Lock ll Col ccc ccc
Command ==> (input command)                               Scroll ==> ssss
***** TOP OF DATA *****
                               (scrollable output data area)
```

where:

**output-id**

Specifies the output identifier or job name for the output being displayed

**nnnnnn**

Specifies the record number of the first data record of the display

**ppppp.ppp**

Specifies the page number and record number (relative to the beginning of the page) of the first data record on display

**Note:** The two numbers are separated by a period.

**ll**

Specifies the number of columns on the left of the display that remain on screen for all horizontal scrolling

**ccc**

Specifies the leftmost and rightmost column numbers for the display, excluding locked columns

**input-command**

Specifies where the browse commands are entered

**ssss**

Specifies where the scroll amount is displayed

You can change the scroll amount by overtyping it with the new amount.

**scrollable output data area**

Specifies where the body of the output appears

## Using Browse Labels

Browse labels are provided that can be assigned (or reassigned) to your displayed output.

- Labels are moveable tabs that mark specific places in output. Use them to mark points in output that you need to find often, quickly, or both.
- Labels can help you find text by keeping points of reference in your output.

To go to a browse label, enter the label as a parameter of the LOCATE command on the command line of your current output display.

## Setting and Locating Labels

Before you can go to a label, the label must be *set*. The following example sets TAB1 to line #1751 in a compilation listing, and then locates TAB1:

1. To set TAB1.
  - a. Scroll or use the LOCATE or FIND command to position line 1751 as the first line of the display.
  - b. Enter **.TAB1** on the command line, and then press Enter.
2. To locate line 1751, enter the following value on the command line, then press Enter.

```
Command ==> LOC .TAB1
```

## Label Rules

The following rules apply to labels:

- Labels must be 1 to 7 characters long and start with a period.
- Labels apply only while you are browsing your currently selected SYSOUT group.
- A single line can have multiple labels.
- The last assignment of a label overrides any previous assignments of a label with the same name.
- Labels are not saved. Once you leave browse, all labels are deleted.

## Browsing Data Sets for a SYSOUT Group or Job

The Sysout Selection List, Report Selection List, and Job Selection List panels accept the "?" selection code to display a list of data sets for a SYSOUT group or job. You can use this display to select, print, and email an individual SYSOUT data set, as follows:

- Data set list information is maintained in the database for all the sysout groups archived by CA View.  
This information contains the DD Name, Step Name, Procedure Step Name, the JES data set ID, and the number of lines and pages.
- Information for the first five data sets in the sysout group is maintained in the Group Control Record (GCR) in the data base master index on the disk.  
This information is always accessible.
- If the sysout group contains the JES data sets, the first three data sets will be the JESMSG LG, JESJCL, and JESYSMSG data sets.
- The information for sysout groups with six or more data sets requires an index auxiliary subfile, which is similar to a Page Separation Index.  
This sub file is associated with a Logical View.
- The data set list information for sysout group with six or more data sets is not accessible if the sysout group expires from primary DASD.  
Reload the sysout group to primary DASD or use one of the following options:
  - Migrate the report to a secondary DASD
  - Retain the index with the ERO option IRETPD parameter, or
  - Access the sysout group on tape with EAS (Expanded Access Server)
 With any of these options, the data set list information will be accessible even though the sysout group has expired from primary DASD.

On the Sysout Selection List, the Report Selection List, or the Job selection List, enter the ? selection code to display the Data Set List panel. A sample panel follows.

**Note:** In Job mode, the Data Set List panel does *not* include the ID field.

CA View mode		Data Set List			Row 00001 of 00005	
Command ==>					Scroll ==> PAGE	
ID ==>	ARD63XX1678033					
Job ==>	FREDJCL	JobID	==>		JOB15082	
Sel	DDname	Stepname	Procstep	Lines	Pages	
	JESMSG LB	JES2		20	1	
	JESJCL	JES2		9	1	
	JESYSMSG	JES2		69	2	
	REPORT	STEP1		1460	34	
	REPORT	STEP2		3258	83	
***** BOTTOM OF DATA *****						

**Note:** Dynamic Reports Lines and Pages reflect the number of lines and pages for that SYSOUT. If your DISTID only received select pages of a report, the SYSOUT in the Data Set List reflects that count, not the line and page count of the entire report, like in the Report Selection List.

To browse an individual data set, enter S (select) or V (view) in the Sel column. V does *not* apply to Job mode.

- If logical views are defined for the SYSOUT group, the select tabular command uses the default view for viewing the data set. If no default is provided, a logical view selection list is provided.
- The view tabular command allows selection of a specific logical view by number or presents a logical view selection list if the view number is omitted.
- To print an individual data set, enter P or J to display a print attribute menu.
- You can use the NEXT and PREV commands on this panel.

**Note:** For more information about commands, see Browse Commands.

## Browse Commands

These commands are available in the browse facility in addition to the system-wide commands:

**ANNOTATE**

Adds an annotation (comment) to a report line

**BOOKMARK**

Inserts a bookmark to allow you to easily return to a specific spot

**COLUMNS**

Displays column numbers

**EMAIL (or E)**

Initiates online emailing

**FILTER**

Accesses the Filter Definition Selection List

**FIND**

Finds and displays a character string

**GOTO**

Displays the Annotation/Bookmark Selection panel

**HEX**

HEX (ON) Displays output in hexadecimal format

HEX (OFF) Turns off the hexadecimal format display

**JPRT (or J)**

Initiates batch printing

**LIMIT**

Limits the number of records searched by the FIND command

**LOCATE**

Scrolls directly to a specific record/page

**MARK**

Marks records/pages for printing

**NEXT**

Skips to the beginning of the next data set in the Sysout Group while browsing the entire Sysout Group.

**PREV**

Skips to the beginning of the previous data set in the Sysout Group while browsing the entire Sysout Group.

**PRT (or P)**

Initiates online printing

**RESET**

Clears column numbers from the display

**RFIND**

Repeats the previous FIND command

**VIEW**

Accesses the logical view panel

**WHERE**

Displays the column and line/record number of the current cursor location and can only be used in native browse

## COLUMNS Command

Use the COLUMNS command to display a column line on the first line of the scrollable SYSOUT data area. This command can be abbreviated as COLS or COL.

**Examples**

This command turns the columns line display on:

Command ==> COLS

This command turns the columns line display off:

Command ==> COLS OFF

The columns line remains at the top of the data display and is useful in identifying the columns to be used with the FIND command.

## FIND Command

Use the FIND command to find and display the next occurrence of a character string in the data being browsed.

When you use this command, the cursor is placed at the beginning of the string, and the string is highlighted. Automatic scrolling is performed, if necessary, to bring the string into view.

### Examples

This is an example of the FIND command:

```
Command ==> FIND xxx
```

This command finds the next xxx string.

**Note:** The search begins at the current cursor position.

## Rules

The following rules apply to the FIND command:

- The last successful FIND command is retained from one session to the next for reference by the RFOUND command and the single asterisk operand.
- You must specify the string of characters to be located every time you enter the FIND command.
- You can abbreviate FIND as F.

To use the same string that was used in the previous FIND command, enter an asterisk with the FIND command, as in this example:

```
Command ==> find *
```

## FIND and Special Strings

In some cases, you may need to find a string of characters that cannot be entered in the standard format as shown above. For these cases, special strings can be entered. For example, to find the expression `i = 1`, which contains blank characters, enclose the string in single quotes as in the following example.

```
Command ==> find 'i = 1'
```

Five types of special strings may be specified with the FIND command:

- Quoted strings
- Hex strings
- Picture strings
- Text strings
- Character strings

These five types of special strings are described in the following sections.

### Quoted Strings

Use a quoted string to find a string that includes special characters. A quoted string must begin and end with apostrophes (single quotes) or quotation marks (double quotes). These examples show where to use a quoted string:

- The string contains blanks, commas, apostrophes or quotation marks
- The string contains a FIND keyword parameter or a column indicator
- The string is a single asterisk

#### Examples

This command finds the string `go to`, which contains a blank:

```
Command ==> find "go to"
```

This command finds an asterisk:

```
Command ==> find '*'
```

This command finds the first occurrence of `all`:

```
Command ==> find 'all' first
```

This command finds all occurrences of `first`

```
Command ==> find all 'first'
```



## Hex Strings

Use a hex string to find a string of hexadecimal digits. A hex string is a quoted string preceded or followed by the letter X. The string can contain only hexadecimal digits (0-9, A-F) and there must be an even number of digits.

### Examples

This command finds hexadecimal 00:

```
Command ==> find x'00'
```

This command finds hexadecimal FFFF:

```
Command ==> f 'ffff'x
```

This command finds hexadecimal a1a2a3:

```
Command ==> f "a1a2a3"x
```

An error message is displayed whenever an invalid hex string is entered.

The following examples show *invalid* hex strings:

```
Command ==> find x'000'
```

(odd number of hex digits)

```
Command ==> find x'fm2b'
```

(not all characters are valid hexadecimal digits)

## Picture Strings

Use a picture string to describe the type of string to be found instead of specifying the exact characters to be found.

A picture string is:

- A quoted string that is preceded or followed by the letter P.
- A string that might contain blanks or alphabetic and numeric characters or both that represent themselves, or any of the special characters listed below.

Each of these characters represents a class of characters:

**= (equal sign)**

Any character

**@ (at sign)**

Alphabetic characters

**# (pound sign)**

Numeric characters

**\$ (dollar sign)**

Special characters

**' (not sign)**

Non-blank characters

**. (period)**

Invalid display characters

**- (minus sign)**

Non-numeric characters

**< (less than)**

Lowercase alphabetic characters

**> (greater than)**

Uppercase alphabetic characters

### Examples

This command finds invalid characters in columns 73 to 80:

```
Command ==> find p'.' 73 80
```

This command finds a 3-digit number (for example, 120 but not 85):

```
Command ==> find p'###'
```

This command finds the label A1, B1, C1, and so on in column 1:

```
Command ==> find '@1'p 1
```

This command finds the next lowercase alphabetic:

```
Command ==> find p'<'
```

## Text Strings

Use a text string to find a character string regardless of whether the alphabetic characters are uppercase or lowercase.

- A text string is a quoted string that is preceded or followed by the letter T.
- All alphabetic characters within a text string are treated as if they were uppercase, and all alphabetic characters in the data that is being searched are treated as if they were uppercase.

### Example

This command finds the string *this*:

```
Command ==> find t'this'
```

In this example, the word *this* can be entered in either uppercase or lowercase, and the FIND command locates an uppercase *THIS*, a lowercase *this*, or a mixed case form such as *This*.

## Character Strings

Use a character string to find a string exactly as it is entered.

- A character string is a quoted string that is preceded or followed by the letter C.
- All characters within a character string are treated exactly as entered.
- The output is searched for an exact match.

### Example

This command finds the characters *This*. In this example, the word *This* is found, but *this*, *THIS*, and other variations are not found.

```
Command ==> find c'This'
```

## FIND: Default String

The default string for the FIND command is a text string. A string without the t'xx' qualifier works exactly the same as the FIND command.

## FIND: Column Selection

You can limit the columns that are searched by the FIND command.

- Enter a pair of column numbers to indicate the first and last columns to be searched.
- The string is found if it is completely contained within the designated columns.

Be aware of the following column specification actions:

- If column numbers are not specified the entire data record is searched
- If a single column number is specified only that one column is searched for the character string
- If two column numbers separated by a space are specified, only those columns specified (including all between) are searched for the character string

### Example

This example finds the string *target-string* within columns 1 and 20:

Command ==> `find target-string 1 20`

## FIND: Direction Parameters

The FIND command searches for the next occurrence of the specified character string as follows:

- If the cursor is within the scrollable, output data area, the search starts at the cursor position.
- If the cursor position is not within scrollable data, the search starts at the top of the data area on the screen.

Enter one of the following optional parameters to control the direction and column range of the search:

**ALL**

Finds all occurrences

**FIRST**

Finds the first occurrence

**LAST**

Finds the last occurrence

**NEXT**

Finds the next occurrence

**PREV**

Finds the previous occurrence

**X**

Finds the next occurrence (non-target lines are excluded from the display)

**XALL**

Finds all occurrences (non-target lines are excluded from display)

These directional parameters are described in the sections that follow.

## NEXT Parameter

The NEXT parameter finds the next occurrence of the entered string.

**Note:** Since NEXT is the default parameter for the FIND command, you do not have to specify it.

When the target string is found, the cursor is positioned at the first character of the string, and the string is highlighted.

### Example

This command scans for the next occurrence of *target-string* from the cursor position or top of data:

```
Command ==> find target-string next
```

CA View searches for the next occurrence of the string *target-string*, starting at the beginning of the first line being displayed or at the cursor location.

Note the following:

- When the FIND or RFIND command searches only a portion of the data (the search doesn't start at the top of the data) and the target string is not found before the bottom of the data is reached, a BOTTOM OF DATA message is displayed.
- To continue the search from this point, reissue the RFIND command to wrap around to the top of the data from the bottom.

## FIRST Parameter

Use the FIRST parameter with the FIND command to search for the first occurrence of the target string.

The search starts at the beginning of the first line of the data and continues until the string is found or until the bottom of the data is reached.

### Example

This command scans for the first occurrence of *target-string* in the output:

```
Command ==> find target-string first
```

To repeat the search for the first occurrence of the target string, issue the RFIND command.

## LAST Parameter

Use the LAST Parameter with the FIND command to search for the last occurrence of the target string in the output.

The search starts at the beginning of the last line of the data and continues backward until the string is found or until the top of the data is reached.

### Example

This command scans for the last occurrence of *target-string* in the output:

```
Command ==> find target-string last
```

To repeat the search for the next last occurrence of the target string, searching backward, issue the RFIND command.

## ALL Parameter

Use the ALL parameter with the FIND command to search for all occurrences of the target string in the output.

- The search starts at the beginning of the first line of the data and continues until all occurrences of the string are found, or until the bottom of the data is reached.
- If the string is found one or more times, the cursor is placed at the beginning of the first occurrence, and that string is highlighted.
- A message is displayed indicating the total number of times that the string was found in the output.
- The entire data set is searched, and any search limit set with the LIMIT command is ignored.

### Example

This command scans for all occurrences of *target-string* and displays the number of occurrences in the small message area:

```
Command ==> find target-string all
```

To repeat the search for the next occurrence of the target string, issue the RFIND command.

## X Parameter

Use X (exclude) as an optional parameter with the FIND command to:

- Cause it to operate in a similar manner as the NEXT parameter but only those lines containing the target string are displayed.
- Display up to a full screen of these lines.

### Example

This command scans for the next occurrence of *target-string* in the output:

```
Command ==> find target-string x
```

Note the following:

- A search for the next occurrence of the string *target-string* is made.  
The search starts at the beginning of the first line being displayed or at the cursor location.
- The RFIND command continues the search for the string that was targeted when the last FIND command was invoked.  
Each time you invoke the RFIND command, the search continues for the same string until the bottom of the data is reached.
- When the search doesn't start at the top of the data and the target string is not found before the bottom of the data is reached, a BOTTOM OF DATA message is displayed.  
To continue the search from this point, reissue the RFIND command to wrap around to the top of the data from the bottom.



## XALL Parameter

Use XALL as an optional parameter with the FIND command to cause FIND to operate in a similar manner as the X parameter; however, only those lines containing the target string are displayed.

A message is displayed indicating the total number of *lines* containing the target string. (This message does *not* reflect the total number of occurrences of the target string.)

### Example

The following string scans for all occurrences of *target-string*, displaying only those lines that contain the target string:

```
Command ==> find target-string all
```

To display the next set of lines containing the target string, issue the RFINd command. If you simply scroll down, the next screen of text is displayed—not the target text you specified.

## FIND: Limiting the Strings

The FIND command finds all occurrences of the entire character string entered with the command, regardless of the kind of characters in the string.

You can control the kind of string to be matched by entering one of the following optional parameters:

### CHARS

Finds any occurrence

### PREFIX

Finds only the prefix to a word

### SUFFIX

Finds only the suffix to a word

### WORD

Finds only a complete word

When one of these limiting parameters is entered, the strings that CA View finds are limited to that type.

These types are described in the sections that follow.

## CHARS Parameter

Enter the CHARS default parameter to find any occurrence of the target character string entirely contained within the specified (or default) columns.

### Example

This example scans for all occurrences of the characters DO:

Command ==> find do chars

The following strings are found:

DO  
DONT  
ADO  
ADOPT  
'DO'  
(DONT)  
ADO-

## PREFIX Parameter

Enter the optional PREFIX parameter to find all occurrences of the target character string, where that string is a prefix and is entirely contained within the specified (or default) columns.

### Example

This example scans for the prefix DO:

Command ==> find do prefix

The searches and results are as follows:

#### **DO**

Finds DON'T, (DONT), and so on

#### **ADO**

Finds ADO, ADOPT, and so on

## SUFFIX Parameter

Enter the optional SUFFIX parameter to find all occurrences of the target character string, where that string is a suffix and is contained within the specified (or default) columns.

### Example

This example scans for the suffix DO:

Command ==> find do suffix

The search and results are as follows:

#### **DO**

Finds ADO, ADO-

## WORD Parameter

Enter the optional WORD parameter to find all occurrences of the target character string within the specified (or default) columns, where that string is a complete word.

**Note:** A *word* is a string that is preceded and followed by a non-alphanumeric character.

### Example

This example scans for the word DO:

Command ==> find do word

The searches and results are as follows:

#### **DO**

Finds DO, 'DO

#### **ADO**

Finds ADO, ADO-

## FIND: Messages

When you enter a FIND or RFIND command, one of these messages is displayed to indicate one of five possible results:

### **Put string in quotes or Enter character string**

The command is invalid, incomplete, or ambiguous.

Chars xxx found or 8-chars xxx

The requested character string was found.

No chars xxx found or No suffix xxx found

All of the data was scanned and the character string was not found.

### **\*Bottom of data reached\* or \* Top of data reached \***

Part of the data was scanned and the character string was not found.

nnn Lines searched

The record limit was reached and the character string was not found.

## FIND: Syntax Rules

The syntax rules for using the FIND command to search for character strings are:

- When you enter optional keyword parameters or search boundaries as part of the FIND command, specify them in any order and separate them with either blanks or commas.
- Although not normally required, you can always use quotation marks or apostrophes to enclose the character string that you want to find, thereby avoiding any confusion with keywords or boundaries.

### **Examples**

These examples show various ways you can search for the previous occurrence of the suffix *tion*, within columns 20 to 40.

```
Command ==> f tion prev suffix 20 40
Command ==> find prev suffix 'tion' 20 40
Command ==> f 'tion' 20,40 suffix prev
Command ==> find 20,40,prev,suffix,tion
Command ==> f prev 20 40 'tion' suffix
```

## ANNOTATE

The ANNOTATION command adds an annotation (comment) to a report line.

## BOOKMARK

The BOOKMARK command inserts a bookmark to allow you to easily return to a specific spot.

## EMAIL (or E)

Use the EMAIL command to initiate online emailing. You can abbreviate it as E.

For details, see [How to Email Output](#) (see page 247).

## FILTER

The FILTER command accesses the Filter Definition Selection List.

**Note:** For more information about the FILTER command, see the section Filter Commands later in this chapter.

## GOTO Command

The GOTO command displays the Annotation/Bookmark Selection list.

## HEX Command

The HEX command turns HEX mode on or off.

### If HEX mode is on

Data is displayed in hexadecimal format

The two lines of hexadecimal data are in vertical format. Also, a separator line is displayed between the lines to make the screen easier to read.

### If HEX mode is off

Text appears normally

Data is not displayed in hexadecimal format underneath the standard EBCDIC format.

When HEX mode is on, the cursor is positioned to the hexadecimal representation of the data after a successful FIND command. The columns are formatted to make it easier to find the hexadecimal representation of a specific column.

### Examples

This example turns on HEX mode:

Command ==> hex

This example turns off HEX mode:

Command ==> hex off

This is sample hexadecimal data:

```
-----  
ABCDEF - 0123456EBCDIC  
CCCCCC464FFFFFFFCCCCC  
1234560000123456523493  
-----
```

Hexadecimal digits are displayed vertically:

- The first hexadecimal line contains the left digits of the 2-digit hexadecimal representation of the EBCDIC characters above
- The second hexadecimal line contains the right digits of the 2-digit hexadecimal representation of the EBCDIC characters above.

## JPRT (or J)

Use the JPRT command to initiate batch printing. It can be abbreviated as J. For more information about the JPRT command, see the chapter "Printing Output."

## LIMIT Command

Use the LIMIT command to limit the number of records searched by the FIND command.

- Because this numerical parameter specifies the maximum number of records that subsequent FIND commands can search, this value cannot exceed the site's MAXIMUM value.
- Omit the parameter to reset the search limitation to the site's MINIMUM value.
- You can abbreviate the LIMIT command as LIM.

### Example

This command limits FIND to the next 5000 records beginning with the record at the top of the screen:

```
Command ==> limit 5000
```

The following command resets the search limitation to the site's MINIMUM value for FIND:

```
Command ==> lim ...
```

## LOCATE Command

Use the LOCATE command to find and display a specific record or page in the data being browsed.

You can abbreviate the Locate command as LOC or L.

This table shows you how to use parameters with Locate:

Parameter	Result	Example
An absolute number	Displays a record	Command ==> L 450 Scrolls record 450 to the top of the screen
A relative (signed) number	Displays a record relative to current cursor position	Command ==> L +20 Displays the current record + 20
A previously assigned label	Displays a label	Command ==> L .err Displays the line labeled .ERR

- The optional PAGE parameter specifies that the absolute or relative number relates to a page rather than a specific record as in this example:

Command ==> L 8 page

The command scrolls the first record on page 8 to the top of the screen.

If a record or page number is entered that is greater than the total number of records or pages, the last record of data is displayed.

- Enter LOC 0 to scroll to the top of the data.
- Enter LOC 999999 to scroll to the bottom of the data.

## MARK Command

Use the MARK command to mark the beginning and the end of a segment (that is, pages or records) for subsequent printing.

This table explains the parameters for the MARK command:

Parameter	Result	Example
PAGE	Marks the current page	Command ==> mark page
LINE	Marks the current line	Command ==> mark line
none	Defaults to the previous mark command	Command ==> mark
CANCEL	Cancels the previously-marked segments	Command ==> mark cancel



## NEXT

Use the NEXT command to skip to the next data set in the Data Set List panel that has a record number greater than the first record presented on the current browse panel.

- If the SYSOUT group does not contain any more SYSOUT data sets, the last SYSOUT data set is displayed.
- You can supply an optional number after the NEXT command to skip several data sets.
- If no number is entered, one data set is skipped.

### Example

This command skips forward three data sets in the display:

```
Command ==> NEXT 3
```

## PREV

Use the PREV command to skip to the previous data set in the Data Set List panel that has a record number less than the first record presented on the current browse panel.

- If the current browse panel is in the middle of a SYSOUT data set, the PREV command first navigates to the beginning of that SYSOUT data set.
- You can supply an optional number after the PREV command to skip several data sets.
- If no number is entered, one data set is skipped.

### Example

This command skips backward three data sets in the display:

```
Command ==> PREV 3
```

## PRT (or P)

Use the PRT command to initiate online printing. It can be abbreviated as P. For more information about the PRT command, see the chapter "Printing Output."

## RESET Command

Use the RESET command to remove the column line that was displayed by the COLUMNS command. It can be abbreviated as RES.

### Example

This command removes the column line from the display:

```
Command ==>> res
```

## RFIND Command

Use the RFIND command (REPEAT FIND) to continue the search for the string that was targeted when the last FIND command was invoked.

**Note:** Each time you invoke the RFIND command, the search continues for the same string until the bottom of the data is reached.

## VIEW Command

Use the VIEW command to define, modify, and save the logical view that is being used to display the SYSOUT group for browse. The VIEW command has no abbreviation.

### Example

```
Command ==>> VIEW
```

## WHERE

Use WHERE to display the column and line/record number of the current cursor location

**Note:** This command can only be used in native browse mode. For more information about the WHERE command, see the section Determining Cursor Location in the chapter "Creating Logical Views."

## Browsing AFP Reports on 3270 Non-Graphics Terminals

CA View has a special browser for viewing AFP reports on 3270 non-graphics terminals.

If you archive AFP reports through a SARFSS functional subsystem task, you have the following viewing options:

- View the report WYSIWYG on CA Output Management Document Viewer (formerly known as Unicenter Output Management Document Viewer)
- View the text strings in the report on a non-graphics 3270 terminal, or a 3270 emulation session on a PC (this is the 3270/AFP browser)

The 3270/AFP browser operates like the regular 3270 CA View browser.

The browser also does the following:

1. Retrieves the selected overlays.
2. Formats the PTX structure fields from the overlays and the report.
3. Merges the overlays and the report page.
4. Presents the text strings at the proper location of a logical page.

The browser treats the 160-column by 99-line screen space as a physical page. Similar to the regular 3270 browser, different terminal models display different numbers of lines per screen. If a terminal screen does not show an entire logical page, you might have to scroll down to view it.

### Invoking the 3270/AFP Browser

Use the S code in a selection list to select an AFP report that was archived by a SARFSS functional subsystem task. The 3270/AFP browser is automatically invoked.

### Finding Pages and Text

Because there is no visual break between physical pages (screen displays are continuous), the best way to see a particular logical page is to use this command:

```
LOC PAGE n
```

You can also locate text strings with the FIND command and define heading, column, and color specifications with logical views. Page indexes of AFP reports are ACIF indexes, *not* CA View page indexes, and are defined with the ACIF parameter files.

## Limitations of 3270 AFP Browsing

All characters are presented online in the 3270 non-graphics terminal font. The following are some of the limitations of using 3270 non-graphics terminals:

- Graphics, images, and logos cannot be displayed.
- All text strings and logical pages are presented in the same orientation.
- Only one logical page is presented at a time.

If several pages are to be printed on one physical page, only one logical page can be presented on a screen of the 3270/AFP viewer at a time.

- Characters are presented by the symbols to which the terminal device controller is set.
- When more than one character string is located at the same position, only the last one can be displayed.

A 3270 terminal cannot simultaneously display two characters in the same column.

- The position of the text characters is approximate when compared with the printed output because the terminal font size may differ from printer font sizes.
- When text strings use different font sizes and relative positioning (RMI), the text strings may not be properly aligned because 3270 non-graphics terminals can only display one font size.

The 3270/AFP viewer is designed to resolve character spacing at intervals of 20 pels (12 characters per inch) and line spacing at intervals of 30 pels (8 lines per inch).

- On this basis:
  - The logical page size is 3200 pels (13 1/3 inches) wide and 2970 pels (12 3/8 inches) deep.
  - For documents composed of fixed-pitch fonts of 12 CPI or less, and line spacing of 8 LPI or less, the 3270/AFP viewer should resolve the text to the terminal without loss of information content.
  - Using font sizes of more than 12 CPI (for example, GT15, many proportional fonts, and so on), line spacing of more than 8 LPI, or both are likely to result in the loss of textual information.

- When small printer fonts are used, text string overlapping may occur.

For example, if field 1 is one inch wide, many small-font characters can fit into it, but the larger 3270 terminal characters will run over into the next field. If the text string of the next field (field 2) uses absolute coordinate positioning, then this text string will override whatever was previously in field 2.

- The maximum number of pages that can be selected with an index entry is 4095. If the reference points to more than that number of pages, the viewer displays "End of Data" when it reaches page 4096.
  - To access all of your data, use multiple index entries.

## Assigning Color to Reports and Online Panels

With the logical viewing facility, you can do the following:

- Define colors to logical view columns and headings
- Define colors or highlight attributes to alternating lines of a report

**Note:** Logical views apply to all modes *except* JOB mode.

For more information, see the chapter "Creating Logical Views."

You can also modify the color and highlight attributes of the online panels when those panels are installed.

**Note:** For information about loading the online members to the database, see the *Installation Guide*.

## Creating and Using Filters

Filters allow you to use Boolean logic (AND, OR, NOT) to search for text.

This allows you to:

- Assign attributes to the matched line, including color, highlight, and whether to display the line
- Perform multiple comparisons
- Print the FILTER results

## Types of Filters

There are two types of filters - *permanent* and *temporary*, as follows:

- Permanent filters are saved in the database by name.  
A permanent filter can be selected during browse and can be associated with a logical view so that whenever the view is specified, the filter is automatically applied.
- Temporary filters that are not saved in the database can be created as needed while browsing.

## Defining a Filter

To define a permanent filter, do one of the following:

- Enter the DEFINE FILTER command from the primary menu.
- Enter the FILTER SELECT command while browsing a report.

The Filter Definition Selection List is displayed:

```

CA View ALL ----- Filter Definition Selection List -----
Command ==>                                         Scroll ==> PAGE

Sel ID                -- Last Changed --- User
=> *                  *
  FILT1                06/20/2013 02:27:50 EGLASSM
  FILT2                08/12/2013 12:39:30 EGLASSM
  MYFILT              08/13/2013 07:24:58 EGLASSM
  JOEFILT             10/16/2013 08:24:34 EGLASSM
***** BOTTOM OF DATA *****
    
```

This is an example of a Filter Definition Selection List in ALL mode after scrolling to the right once. Each field is explained in the table that follows.

```

CA View ALL ----- Filter Definition Selection List -----
Command ==>                                         Scroll ==> PAGE

Sel ID                Description
=> *                  *
  FILT1                PAYROLL FILTER
  FILT2                PRACTICE FILTER
  MYFILT              ERICS FILTER
  JOEFILT             JOES FILTER
***** BOTTOM OF DATA *****
    
```

## Filter Definition Selection List

This list describes the fields on the Filter Definition Selection List panel:

**Sel**

Specify D (delete), S (select), or X (cross-reference) to see all views that currently invoke this filter

**ID**

Filter identifier

**Last Changed**

The date, time, and user/job that last modified the filter

**Description**

A user-defined 1- to 40-character description of the filter

## Filter Definition Specifications

When you select a filter from the filter selection list or you create a filter, the Filter Definition Specifications panel is displayed. You define the filter on this panel. You can specify three basic components of a filter:

- The area of the report page and line to be searched
- A rule containing the text strings to be found
- The action to take when the rule is true (color, underscore, do not display, and so on)

This is the Filter Definition Specifications panel. The fields on this panel are defined in the table that follows.

```

CA View ALL ----- Filter Definition Specifications ---- Row 00001 of 00001
Command ==>                                         Scroll ==> PAGE

  Filter ID  ---> NFILT                               -Emphasis--
  Description ==> THIS IS A NEW FILTER

Filter Specifications:
  Lines      Columns                                     C  H  L
  Sel Beg End Beg End Op Text                          l  l  o
  1   999 1   80  EQ 'SARP'                             Type Show r  t  c
                                         N
***** BOTTOM OF DATA *****
    
```

## Field Descriptions

This list describes the fields in the Filter Definition Specifications panel:

### Lines: Beg and End

The lines on the unfiltered report that should be searched for the data specified in the Text column

- If neither Beg nor End is specified, the entire page is searched.
- If only Beg is specified, only that one line is searched.
- If both Beg and End are specified, only those lines specified (including all between) are searched.

### Columns: Beg and End

The columns on the unfiltered report that should be searched for the data specified in the Text column

- If neither Beg nor End is specified, the entire line is searched.
- If only Beg is specified, only that one column is searched.
- If both Beg and End are specified, only those columns specified (including all between) are searched.

### Op

The comparison operators: EQ (equal), NE (not equal), LT (less than), GT (greater than), LE (less than or equal), GE (greater than or equal), or left or right parentheses

**Note:** For guidelines on using all operators other than EQ (equal), see the note at the end of the Filter Examples section (later in this chapter).

### Text

The data that is being searched for on the unfiltered report page

- The text is enclosed in single quotes if you do not supply them.

The text searching is case-sensitive.

- If you want to include blank spaces preceding or following the text, you must explicitly specify the quotes around that text.

### Type

The Boolean connectors: AND, OR, NOT

- The NOT connector must appear on its own line, and it refers to the line that follows it.
- When using AND, all comparisons must have the same line numbers.

### Show

Specifies whether lines that match the specified criteria are to be displayed (Y or N)



**Clr**

The color to be used to display the line

- Options are white, red, blue, green, pink, yellow, or turquoise.
- Only the first letter of the color must be specified.

**Hlt**

The highlight attribute to be used for the displayed line

- Options are underscore, blink, or reverse video.
- Only the first letter of the highlight attribute must be specified.

**Loc**

Specifies the coloring, highlighting, or both

**A**

Apply to ALL occurrences of the specified Text string on the report line

**F**

Apply to the first occurrence of the specified Text string on the report line

**L**

Apply to the entire report line

## Filter Commands

After you select a filter, you can activate or deactivate it for your browse session. If you specify a filter name on the logical view definition panel, that filter is automatically selected and activated when you browse.

You can perform these functions while browsing by issuing the appropriate commands from the command line.

### Creating a Temporary Filter

1. From the following on the command line of the browse panel, specify:

```
FILTER CREATE or
FIL C
```

The filter definition panel is displayed.

2. Create a filter specification, and then press PF3 or type END to return to browse and view with the filter.

This filter cannot be saved to the database.

## Creating/Selecting a Permanent Filter

1. From the command line of the browse panel, specify:  
FILTER SELECT *or*  
FIL S  
The filter selection list panel is displayed.
2. Select an existing filter or create a new filter.

## Activating a Selected Filter

- From the command line of the browse panel, specify:  
FILTER ON *or*  
FIL N  
The report is displayed with the filter applied.

## Deactivating a Selected Filter

- From the command line of the browse panel, specify:  
FILTER OFF *or*  
FIL F  
The filter remains selected and can be edited, but the report is displayed without the filter being applied.

## Selecting and Editing a Filter

- From the command line of the browse panel, specify:  
FILTER *filter-name* EDIT *or*  
FIL *filter-name* E  
This command allows you to bypass the filter selection list panel. Use this command as a shortcut to select a filter with the FILTER SELECT command, and then edit it with the FILTER command.

## Selecting and Activating a Filter

- From the command line of the browse panel, specify:  
FILTER *filter-name* *or*  
FIL *filter-name*  
This command allows you to bypass the filter selection list panel. Use this command as a shortcut to select a filter with the FILTER SELECT command, and then edit it with the FILTER ON command.

## Modifying a Filter

- From the command line of the browse panel, specify:

FILTER *or*

FIL

After you select a filter, you can edit it. If this is a permanent filter, you can enter the *SAVE* command to write the filter to the database.

## Security Considerations

Before you modify a filter definition, we recommend that you do the following:

- Select it with an X in the filter selection list  
The logical views that use that filter are displayed.
- All views that use the filter are affected by any modifications you make.

**Note:** If you are not allowed to access a logical view that uses a particular filter, you are also not allowed to modify that filter.

## Filter Examples

This section presents four examples using filters.

### Example 1

This report lists all accounts, including phone numbers and cost centers:

```

CA View  Browse ---- PROV RPT ---- Rec 0000000 Pg 0000000.000 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
*****
***** TOP OF DATA *****
.SARPAGE 1
.
.   TBEXPFCN                                TELECOMMUNICATIONS BILLIN
.                                           FREQUENTLY CALLED NUMBERS
.                                           FOR PERIOD 05/25/2013 THRU 06/01/
.                                           -----NAME-----
. .DIALED NUMBER.....COSTCENTER  ....STAT/AUTH CD....LAST.....FIRS

. 216 222 3333  ACCOUNTING SERVICES      15 2230  ACCOUNTING SERVICES
. 216 222 3344  PRINT                    15 2635  PRINT
. 216 222 3355  SPECIALTY AUTO APM       15 2657  COLLIN             DARRY
. 216 222 3366  OUTSIDE PROD MGR        15 2411  LAMBERS            DAVID
. 216 222 3534  HUMAN RESOURCES          15 2463  HUMAN RESOURCES
. 216 222 3360  HUMAN RESOURCES          15 2465  RUSSEL             RACHA
. 216 222 3560  HUMAN RESOURCES          15 2647  HENRY              WILLI
. 216 222 3360  HUMAN RESOURCES          15 2465  RUSSEL             RACHA
. 216 222 3530  TRAINING                  15 2647  HENRY              SHARI
. 216 222 4233  TRAINING                  15 2646  SOFTWARE TRAINING
. 216 222 4234  TRAINING                  15 2647  QUAN               SUSIE
    
```

In this example:

- You create a filter to display only those lines that contain the cost center HUMAN RESOURCES.
- Use the WHERE command (see the chapter "Creating Logical Views"), to verify online that the cost centers begin in column 19.
- Finally, you define the filter specification:

```

CA View ALL ----- Filter Definition Specifications ---- Row 00001 OF 00001
Command ==>                               Scroll ==> PAGE

Filter ID   ---> ZERICG                                -Emphasis--
Description ==> THIS IS ERIC'S FILTER

Filter Specifications:
  Lines Columns                                     C   H   L
  Sel Beg End Beg End Op Text                       Type Show r   t   c
                19      EQ 'HUMAN RESOURCES'
                Y

*****
***** BOTTOM OF DATA *****
    
```

**Note:** Use the SAVE command to save the definition—if you press PF3/END the definition is *not* saved.

The filter in the previous example specifies that CA View must display each line containing the text HUMAN RESOURCES starting in column 19. (By leaving the Col End field, blank, you specify that CA View is to start in column 19 and check for the length of the specified text string.)

This is the report that is browsed with the filter selected and activated:

```

CA View Browse ---- PROVRPT ---- Rec 0000000 Pg 0000001.013 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
. 216 222 3534 HUMAN RESOURCES      15 2463 HUMAN RESOURCES
. 216 222 3360 HUMAN RESOURCES      15 2465 RUSSEL           RACHA
. 216 222 3560 HUMAN RESOURCES      15 2647 HENRY           WILLI
. 216 222 3360 HUMAN RESOURCES      15 2465 RUSSEL           RACHA
. 216 222 2011 HUMAN RESOURCES      15 2462 WORTH          KENNE
. 312 555 2012 HUMAN RESOURCES      15 2462 WORTH          KENNE
***** BOTTOM OF DATA *****

```

**Example 2**

This report lists all accounts, including phone numbers and cost centers:

```

CA View Browse - PROVRPT ----- Rec 0000000 Pg 0000000.000 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
.SARPAGE 1
.
.   TBEXPFCN                                TELECOMMUNICATIONS BILLING
.                                           FREQUENTLY CALLED NUMBERS
.                                           FOR PERIOD 05/25/2013 THRU 06/01/
.                                           -----NAME-----
..DIALED NUMBER.....COSTCENTER  ....STAT/AUTH CD.....LAST.....FIRS
. 216 222 3333 ACCOUNTING SERVICES      15 2230 ACCOUNTING SERVICES
. 216 222 3344 PRINT                    15 2635 PRINT
. 216 222 3355 SPECIALTY AUTO APM        15 2657 COLLIN           DARRY
. 216 222 3366 OUTSIDE PROD MGR          15 2411 LAMBERS           DAVID
. 216 222 3534 HUMAN RESOURCES           15 2463 HUMAN RESOURCES
. 216 222 3360 HUMAN RESOURCES           15 2465 RUSSEL           RACHA
. 216 222 3560 HUMAN RESOURCES           15 2647 HENRY           WILLI
. 216 222 3360 HUMAN RESOURCES           15 2465 RUSSEL           RACHA
. 216 222 3530 TRAINING                   15 2647 HENRY           SHARI
. 216 222 4233 TRAINING                   15 2646 SOFTWARE TRAINING
. 216 222 4234 TRAINING                   15 2647 QUAN            SUSIE

```

In this example, you create a filter that does *not* display lines that have their cost center as HUMAN RESOURCES.

To create this filter, use this filter specification:

```

CA View ALL ----- Filter Definition Specifications -- Row 00001 of 00001
Command ==>                                         Scroll ==> PAGE

Filter ID ---> ZERICG2                               -Emphasis--
Description ==> EXAMPLE 2

Filter Specifications:
  Lines Columns                                     C H L
  Sel Beg End Beg End Op Text                       Type Show r t c
  19      EQ 'HUMAN RESOURCES'                       N
***** BOTTOM OF DATA *****
    
```

This example shows the report browsed with the filter selected and activated:

```

CA View Browse - PROV RPT ----- Rec 0000001 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                                         Scroll ==> PAGE
.SARPAGE 1

. TBEXPCFN                                           TELECOMMUNICATIONS BILLING
.                                                     FREQUENTLY CALLED NUMBERS
.                                                     FOR PERIOD 05/25/2013 THRU 06/01/
.-----NAME-----
..DIALED NUMBER.....COSTCENTER ....STAT/AUTH CD.....LAST.....FIRS

. 216 222 3333 ACCOUNTING SERVICES          15 2230 ACCOUNTING SERVICES
. 216 222 3344 PRINT                        15 2635 PRINT
. 216 222 3355 SPECIALTY AUTO APM          15 2657 COLLIN                DARRY
. 216 222 3366 OUTSIDE PROD MGR           15 2411 LAMBERS                  DAVID
. 216 222 3530 TRAINING                    15 2647 HENRY                    SHARI
. 216 222 4233 TRAINING                    15 2646 SOFTWARE TRAINING
. 216 222 4234 TRAINING                    15 2647 QUAN                      SUSIE
. 216 222 6111 SPECIAL EVENTS              07 3879 SPECIAL EVENTS
. 216 222 4405 SPECIAL EVENTS              07 3889 SPECIAL EVENTS          AB
. 216 222 5132 FINANCE AND ACCT            04 7245 SMITH                JOHN
. 216 222 3530 BANK OF AMERICA OPER        16 2013 WEBER                 PETER
. 216 222 423  NC CAS CUST SER             12 2013 ENTRAL                JILL
    
```

**Example 3**

This report lists all accounts, including phone numbers and cost centers:

```

CA View Browse ---- PROVRPT ---- Rec 0000000 Pg 0000000.000 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
.SARPAGE 1
.
.   TBEXPCFN                                TELECOMMUNICATIONS BILLIN
.                                           FREQUENTLY CALLED NUMBERS
.                                           FOR PERIOD 05/25/2013 THRU 06/01/
.                                           -----NAME-----
..DIALED NUMBER.....COSTCENTER  ....STAT/AUTH CD.....LAST.....FIRS
.
. 216 222 3333  ACCOUNTING SERVICES      15 2230  ACCOUNTING SERVICES
. 216 222 3344  PRINT                    15 2635  PRINT
. 216 222 3355  SPECIALTY AUTO APM       15 2657  COLLIN                DARRY
. 216 222 3366  OUTSIDE PROD MGR        15 2411  LAMBERS                DAVID
. 216 222 3534  HUMAN RESOURCES          15 2463  HUMAN RESOURCES
. 216 222 3360  HUMAN RESOURCES          15 2465  RUSSEL                 RACHA
. 216 222 3560  HUMAN RESOURCES          15 2647  HENRY                  WILLI
. 216 222 3360  HUMAN RESOURCES          15 2465  RUSSEL                 RACHA
. 216 222 3530  TRAINING                  15 2647  HENRY                  SHARI
. 216 222 4233  TRAINING                  15 2646  SOFTWARE TRAINING
. 216 222 4234  TRAINING                  15 2647  QUAN                   SUSIE
    
```

In this example, you create a filter that displays only those lines that contain the cost center HUMAN RESOURCES and does *not* display the lines with the 216 area code.

To create this filter, use this filter specification:

```

CA View ALL ----- Filter Definition Specifications ----- Row 00001 of 00002
Command ==>                               Scroll ==> PAGE

Filter ID   ---> ZERICG3                    -Emphasis--
Description ==> EXAMPLE 3

Filter Specifications:
  Lines  Columns  C  H  L
  Sel Beg End Beg End Op Text              Type Show r t c
          19      EQ 'HUMAN RESOURCES'      Y
          3       EQ '216'                  N
***** BOTTOM OF DATA *****
    
```

The following shows the report browsed with the filter selected and activated:

```

CA View Browse - PROVRPT ----- Rec 0000000 Pg 0000001.067 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
. 312 555 201  HUMAN RESOURCES          15 2465  WORTH                KENNE
***** BOTTOM OF DATA *****
    
```

#### Example 4

This example modifies the data in Example 3 to display each line that contains HUMAN RESOURCES in line 19 and does *not* contain area code 216 in column 3.

For each line, if column 19 has the text HUMAN RESOURCES, and if column 3 is *not equal* to 216, the line is displayed.

```

CA View ALL ----- Filter Definition Specifications ----- Row 00001 of 00002
Command ==>                                         Scroll ==> PAGE

  Filter ID   ---> ZERICG4                               -Emphasis--
  Description ==> EXAMPLE 4

Filter Specifications:
  Lines  Columns
Sel Beg End Beg End Op Text                               Type Show  r  t  c
      19      EQ 'HUMAN RESOURCES'                       AND  Y
      3      NE '216'

***** BOTTOM OF DATA *****
    
```

This is the report browsed with the filter selected and activated:

```

CA View Browse - PROVRPT ----- Rec 0000000 Pg 0000001.067 Lock 00 Col 001 080
Command ==>                                         Scroll ==> PAGE
***** TOP OF DATA *****
. 312 555 201      HUMAN RESOURCES                       15 2465      WORTH      KENNE
***** BOTTOM OF DATA *****
    
```

**Important!** Always do the following:

Specify the column to be searched when using the inequality operators—NE (not equal), LT (less than), GT (greater than), LE (less than or equal), and GE (greater than or equal).

When a comparison operator other than EQ is used, it is important to specify column numbers.

If no column numbers are specified in this example, the condition would have been "find any string on the line that is not equal to 216." Since every line of the report has a text string that is not equal to 216, you would not get the desired results.



## How to Create and Use Filters

As a report user you can create a filter and activate the filter for future use. The filter can be defined and saved in the database.

You can create two types of filters:

- Permanent filters: These filters are saved in the database by name. A permanent filter can be selected during browse and can be associated with a logical view. If the selected logical view is specified, the filter is automatically applied.
- Temporary filters: These filters are created as needed while browsing and are not saved in the database.

You create filters to:

- Assign the attributes to the matched text or line, including color, highlight, and whether to display the line
- Use Boolean logic (AND, OR, NOT) to search for text
- Perform multiple comparisons
- Print the FILTER results

### Example

To demonstrate the use of filters, here is a simple example showing how you can customize the view of your reports.

The original report lists all accounts, including telephone numbers and cost centers:

```

CA View Browse - PROV RPT ----- Rec 0000000 Pg 0000000.000 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
.SARPAGE 1
.
.   TBEXPFCN                                TELECOMMUNICATIONS BILLING
.                                           FREQUENTLY CALLED NUMBERS
.                                           FOR PERIOD 05/25/2013 THRU 06/01/
.                                           -----NAME-----
..DIALED NUMBER.....COSTCENTER  ....STAT/AUTH CD.....LAST.....FIRS

. 216 222 3333  ACCOUNTING SERVICES          15 2230  ACCOUNTING SERVICES
. 216 222 3344  PRINT                      15 2635  PRINT
. 216 222 3355  SPECIALTY AUTO APM         15 2657  COLLIN                DARRY
. 216 222 3366  OUTSIDE PROD MGR          15 2411  LAMBERS                DAVID
. 216 222 3534  HUMAN RESOURCES            15 2463  HUMAN RESOURCES
. 216 222 3360  HUMAN RESOURCES            15 2465  RUSSEL                 RACHA
. 216 222 3560  HUMAN RESOURCES            15 2647  HENRY                  WILLI
. 216 222 3360  HUMAN RESOURCES            15 2465  RUSSEL                 RACHA
. 216 222 3530  TRAINING                      15 2647  HENRY                  SHARI
. 216 222 4233  TRAINING                      15 2646  SOFTWARE TRAINING
. 312 555 2012  HUMAN RESOURCES            15 2465  WORTH                  KENNE
    
```

You create a filter to display only those lines that contain the cost center HUMAN RESOURCES. Use the WHERE command to verify online that the cost centers begin in column 19 and finally define the filter specification. The filter in this example specifies that CA View must display each line containing the text HUMAN RESOURCES starting in column 19. (By leaving the Col End field, blank, you specify that CA View is to start in column 19 and check for the length of the specified text string.)

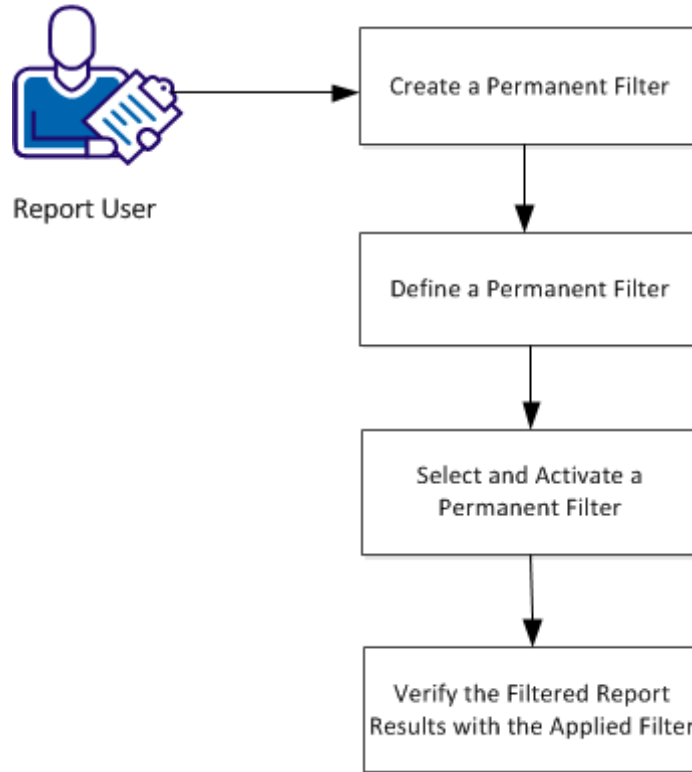
The report that is browsed with the filter selected and activated is as follows:

```
CA View Browse ---- PROV RPT ---- Rec 0000000 Pg 0000001.013 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
. 216 222 3534   HUMAN RESOURCES           15 2463   HUMAN RESOURCES
. 216 222 3360   HUMAN RESOURCES           15 2465   RUSSEL           RACHA
. 216 222 3560   HUMAN RESOURCES           15 2647   HENRY           WILLI
. 216 222 3360   HUMAN RESOURCES           15 2465   RUSSEL           RACHA
. 312 555 2012   HUMAN RESOURCES           15 2462   WORTH           KENNE
***** BOTTOM OF DATA *****
```

**Note:** The role Report User also includes and denotes the roles of System Administrator or End User.

The following diagram describes how a report user creates and uses filters.

## How to Create and Use Filters



To create and use filters follow these steps:

[Create a Permanent Filter](#) (see page 180)

[Define a Permanent Filter](#) (see page 181)

[Select and Activate a Permanent Filter](#) (see page 184)

[Verify the Filtered Report Results with the Applied Filter](#) (see page 185)

## Create a Permanent Filter

You can create permanent filters and save them in the database by name. These filters can be used while browsing reports to display customized views of reports based on your specific requirements. A permanent filter can also be specified within a logical view. If specified within the logical view, the filter is applied whenever the logical view is selected or when viewing a report using the logical view.

**Important!** If a filter name is specified within multiple logical views, then any modifications that are made to the existing filter affect all the logical views using that filter.

### Follow these steps:

1. Enter the DEFINE FILTER or DEF FILT command from the primary menu or, while browsing a report, enter FIL S and press Enter.

The Filter Definition Specification List panel appears with the list of filters.

2. From the command line, specify:

S filter-name

where

**filter-name**

Specifies the name of a new or existing filter

3. Press Enter.

The filter name that is specified opens. If the filter does not exist, a new filter is created.

**Note:** You can create a temporary filter as needed while browsing a report. To create a temporary filter:

- Specify the following command on the command line of the browse panel:

FILTER CREATE or  
FIL C

The Filter Definition Specification panel is displayed.

- Specify the filtering criteria and press PF3 or type END to return to browse. To apply the temporary filter to the display of the report, activate the filter with the FILTER ON or FIL N command. To return to the view of the report without the filter applied, deactivate the temporary filter with the FILTER OFF or FIL F command.

## Define a Permanent Filter

A permanent filter can be defined and saved in the database by a name. When, you select or create a filter from the filter definition selection list the filter definition specifications panel is displayed. You can define the filter on this panel.

**Follow these steps:**

1. From the Filter Definition Specifications panel, specify:
  - The area of the report page and line to be searched
  - A rule containing the text strings to be found
  - The action to take when the rule is true (color, underscore, do not display, and so on)
2. Enter PF3 to save the filter definition in the database.

The following illustration displays the Filter Definition Specifications panel:

```

CA View ALL ----- Filter Definition Specifications ----- Row 00001 of 00001
Command ==>                                         Scroll ==> PAGE
  Filter ID   ---> FILTER1
  Description ==> THIS IS TEST FILTER1                                     Emphasis

Filter Specifications:
  Records Columns                                     C H L
  Sel Beg End Beg End Op Text                          Type Show r t c
          19      EQ 'HUMAN RESOURCES'                  N
***** Bottom of Data *****
    
```

## Field Descriptions

The Filter Definition Specifications panel contains the following fields:

### Lines: Beg and End

Specifies the lines on the unfiltered report that should be searched.

- Specify neither Beg nor End to search the entire page
- Specify only Beg to search for that one line
- If both Beg and End are specified, only those lines specified (including all between) are searched.

### Columns: Beg and End

Specifies the columns on the unfiltered report that should be searched.

- If neither Beg nor End is specified, the entire line is searched.
- If only Beg is specified, only that one column is searched.
- If both Beg and End are specified, only those columns specified (including all between) are searched.

### Op

Specifies the comparison operator.

The options are:

- EQ (equal)
- NE (not equal)
- LT (less than)
- GT (greater than)
- LE (less than or equal)
- GE (greater than or equal)
- Left or right parentheses.

### Text

The data that is being searched for on the unfiltered report page.

- The text is enclosed in single quotes if you do not supply them.
- The text searching is case-sensitive.

**Note:** If you want to include blank spaces preceding or following the text, you must explicitly specify the quotes around that text.

### Type

The Boolean connectors: AND, OR, NOT

- The NOT connector must appear on its own line, and it refers to the line that follows it.

- When using AND, all comparisons must have the same line numbers.

**Show**

Specifies whether lines that match the specified criteria are to be displayed (Y or N)

**Clr**

Specifies the color to be used for the displayed line. The options are:

- white, red, blue, green, pink, yellow, or turquoise.

**Note:** Only the first letter of the color must be specified.

**Hlt**

Specifies the highlight attribute to be used for the displayed line. The options are:

- underscore, blink, or reverse video.

**Note:** Only the first letter of the highlight attribute must be specified.

**Loc**

Specifies the coloring and highlighting to be applied to the report line. You can specify one of the following values:

**A**

Apply to ALL occurrences of the specified Text string on the report line.

**F**

Apply to the first occurrence of the specified Text string on the report line.

**L**

Apply to the entire report line.

## Select and Activate a Permanent Filter

You can select a filter and activate or deactivate it for your browse session. If you specify a filter name on the logical view definition panel, that filter is automatically selected and activated when you browse. The filter can be used to generate a customized report only after it is activated.

### Follow these steps:

1. From the command line of the browse panel, specify:

FILTER SELECT or  
FIL S

The Filter Definition Specification List panel appears with the list of filters.

2. From the command line of the Filter Definition Specification List panel, specify:

S filter-name or

Select a filter by placing an 'S' next to the filter-name

where,

**filter-name**

Specifies the name of an existing filter

3. Press Enter.

The filter is selected and you are taken back to the report browse panel.

4. From the command line of the browse panel, specify:

FILTER ON or  
FIL N

The report is now displayed with the selected filter applied.

**Note:** You can deactivate a filter by using the FILTER OFF or FIL F command from the command line of the browse panel. The filter remains selected and can be edited, but the report is displayed without the filter being applied.



## Verify the Filtered Report Results with the Applied Filter

After you create and activate a filter, browse the report to verify that the filter is applied.

For example, you create a filter that displays only those lines including the cost center HUMAN RESOURCES and does not display the lines that contain the 216 area code.

The following report lists all accounts, including telephone numbers and cost centers:

```

CA View Browse - PROV RPT ----- Rec 0000000 Pg 0000000.000 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
.SARPAGE 1
.
.   TBEXPCFN                                TELECOMMUNICATIONS BILLING
.                                           FREQUENTLY CALLED NUMBERS
.                                           FOR PERIOD 05/25/2013 THRU 06/01/
.                                           -----NAME-----
..DIALED NUMBER.....COSTCENTER  ....STAT/AUTH CD.....LAST.....FIRS

. 216 222 3333  ACCOUNTING SERVICES      15 2230  ACCOUNTING SERVICES
. 216 222 3344  PRINT                    15 2635  PRINT
. 216 222 3355  SPECIALTY AUTO APM       15 2657  COLLIN          DARRY
. 216 222 3366  OUTSIDE PROD MGR        15 2411  LAMBERS         DAVID
. 216 222 3534  HUMAN RESOURCES          15 2463  HUMAN RESOURCES
. 216 222 3360  HUMAN RESOURCES          15 2465  RUSSEL          RACHA
. 216 222 3560  HUMAN RESOURCES          15 2647  HENRY           WILLI
. 216 222 3360  HUMAN RESOURCES          15 2465  RUSSEL          RACHA
. 216 222 3530  TRAINING                  15 2647  HENRY           SHARI
. 216 222 4233  TRAINING                  15 2646  SOFTWARE TRAINING
. 312 555 2012  HUMAN RESOURCES          15 2465  WORTH           KENNE
    
```

Create the filter by using the following filter specifications:

```

CA View ALL ----- Filter Definition Specifications ----- Row 00001 of 00002
Command ==>                               Scroll ==> PAGE

Filter ID   ---> FILTER2                    -Emphasis--
Description ==> THIS IS TEST FILTER2

Filter Specifications:
  Lines Columns                                C   H   L
  Sel Beg End Beg End Op Text                 Type Show r   t   c
          19      EQ 'HUMAN RESOURCES'        Y
          3       EQ '216'                    N
***** BOTTOM OF DATA *****
    
```

Select the filter and activate it. With the filter applied, the following view of the report is displayed:

```
CA View Browse - PROVRPT ----- Rec 0000000 Pg 0000001.067 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
. 312 555 201   HUMAN RESOURCES           15 2465   WORTH           KENNE
***** BOTTOM OF DATA *****
```

## Annotations and Bookmarks

The *annotation* feature lets you attach new information (an annotation) to any line on any page of a report. You can use this feature to:

- Make a comment about a segment of report information; this allows you to return to that specific item at any time
- Add annotation comments to an existing annotation
- Draw the attention of another viewer to specific information in the report

Each line of the report can have multiple annotations attached to it.

**Note:** A line is a row of characters or blanks on a page of a report. Line locations are referenced by a page number and a line number.

You can create

- Personal annotations by using the private mode
- Annotations available to all viewers by using the public mode.

*Bookmarks* are annotations that contain no text and are used to allow users to mark report sections for easy access. Bookmarks are created in private mode only; other viewers cannot see bookmarks.

## Browsing a Report Using Annotations and Bookmarks

When browsing a report, the location of each line on the screen that has an annotation or bookmark is identified by name in an index. The name of the annotation must be unique. This allows you to:

- Display the annotation
- Reposition the browser to the report portion to which the annotation or bookmark belongs
- Delete the annotation or bookmark

Users can indicate viewing preferences as follows:

- Always indicate annotations and bookmarks for a report being browsed.
- Use the ANNOTATE command to display annotations and bookmarks as needed.

**Note:** If annotations are set to OFF when browsing a report, the locations of the annotations are not displayed.

## Annotation Sections

Each annotation can contain multiple sections. Note the following:

- An annotation section is created every time you append information to the annotation; this is similar to the way messages are appended in email systems.
- You can only append to the bottom of the annotation text.
- You cannot modify previously created comments.
- Because you can type over the entire annotation text area, it appears that the existing text is being erased, but it is *not*. A message about the existing text informs you that the additions have been accepted and that changes to pre-existing text are ignored.
- Any information added in this way is stored in a new section that appears at the end of the note.
- Once a section has been saved, its contents cannot be changed.

## Public and Private Annotations

Each section of an annotation can be secured as private (for only the creator to view) or can be marked as public, which makes it accessible to all users.

- Private mode

The annotation is for the private use of the creator. The annotation remains in the report for private future reference and no other report viewer can see the comments. Private mode is the default.

- Public mode

The annotation is viewable by all users.

Users can publish any of their private notes (and make them available to all users) by converting them from private to public mode.

## Annotations for Views

When an annotation is created for a view, it is located by the line number of the base report instance. This annotation is identical to an annotation that is created for the native (browse) view of the report.

When the view is displayed, any annotations that have been created for that report are indicated if the line where the annotation is located is selected for the display.

## Archiving Annotations

Annotations are added for a report *after* the report has already been written to tape. It is not possible to include annotations with the archived version of the report on the same tape volume.

Normal backup cycle processing backs up annotations and bookmarks.

## Deleting and Restoring Reports

When a report is deleted, its annotations are also deleted. Annotations and bookmarks cannot be restored if a report has been deleted from CA View and then TADDED back in later.

**Note:** For information about TADD control statements, see the *Reference Guide*.

## Using Bookmarks and Annotations

Report browse panel SARP7 either displays or hides bookmarks and annotations, depending on whether the annotation feature is set to ON or OFF.

These are examples of each type of display:

```

CA View  Browse – REPORT101 ----- Rec 0000001 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                                     Scroll ==>

This is where the normal report data would appear. _____
Here is another line of report data. _____
And yet a third line of report data. _____
And yes, in this example there are blank lines between each line which contains
data. _____
_____
_____

```

Panel SARP7 - Report Browse when annotation is OFF

```

CA View  Browse – REPORT101 ----- Rec 0000001 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                                     Scroll ==>

A This is where the normal report data would appear. _____
C Here is another line of report data. _____
B And yet a third line of report data. _____
  And yes, in this example there are blank lines between each line which
  contains data. _____
_____
_____

```

Modified Panel SARP7 - Report Browse when annotation is ON

In the second illustration, the report data has been shifted two positions to the right to leave room for the annotation indicators. The first line with text has an annotation (A). The second line with text has both an annotation and a bookmark; this is a combination (C). The third line with text has a bookmark (B).

## Annotation and Bookmark Commands

The following table describes the primary annotation and bookmark commands that you can use while browsing a report:

Command	Abbreviation	Description						
ANNOTATE	A	<p>Used while browsing a report</p> <ul style="list-style-type: none"> <li>■ If the cursor is not on a report line, an error message is displayed.</li> <li>■ If the cursor is on a report line that does not contain an annotation, an error message is displayed.</li> <li>■ If the cursor is on a report line that contains an annotation, the annotation is selected for processing.</li> <li>■ When you exit the annotation, the report will not be positioned at the line containing the annotation unless you exit the Annotation Definition panel using the LOCATE command.</li> </ul>						
ANNOTATE ON	A N	<p>Turns annotation on, so that the annotated report display is visible</p> <p>The second illustration in the preceding section shows the report shifted two columns to the right leaving the first two columns for an annotation indicator. Therefore, on an 80 column terminal, only 78 report characters per line are displayed indicating one of the following:</p> <table border="0"> <tr> <td style="padding-right: 20px;">A (Annotation)</td> <td>This line contains an annotation.</td> </tr> <tr> <td>B (Bookmark)</td> <td>This line contains a bookmark.</td> </tr> <tr> <td>C (Combined)</td> <td>There is an annotation and a bookmark on this line.</td> </tr> </table>	A (Annotation)	This line contains an annotation.	B (Bookmark)	This line contains a bookmark.	C (Combined)	There is an annotation and a bookmark on this line.
A (Annotation)	This line contains an annotation.							
B (Bookmark)	This line contains a bookmark.							
C (Combined)	There is an annotation and a bookmark on this line.							
ANNOTATE OFF	A F	<p>Turns annotation off so that the full report display is visible</p> <p>The first illustration in the preceding section shows all report characters per line leaving no room for the annotation indicator.</p>						

Command	Abbreviation	Description
ANNOTATE <i>name</i>	<i>A name</i>	<p>Used while browsing a report</p> <ul style="list-style-type: none"> <li>■ If there is no existing annotation by this name, a new one is created and attached to the line at the top of the screen.</li> <li>■ If there is an existing annotation with the specified name, this command selects the named annotation for processing and repositions the report. The line to which the annotation is attached appears at the top of the screen.</li> </ul> <p>This is a shortcut.</p> <ul style="list-style-type: none"> <li>■ If you use this method, you do not have to first specify the GOTO primary command and then select or create the desired annotation from the Annotation/Bookmark Selection List.</li> <li>■ If you are selecting an existing annotation, the report is positioned at the line containing the annotation.</li> </ul>
BOOKMARK <i>name</i>	<i>B name</i>	<p>Used while browsing a report</p> <ul style="list-style-type: none"> <li>■ If there is no existing bookmark by this name, a new one is created and attached to the line at the top of the screen.</li> <li>■ If there is an existing bookmark by this name, this command repositions the report so that the line to which the named bookmark is attached is at the top of the screen.</li> </ul> <p>This is a shortcut.</p> <ul style="list-style-type: none"> <li>■ If you use this method, you do not have to specify the GOTO command then locate or create the desired bookmark from the Annotation/Bookmark Selection List.</li> </ul>
GOTO	G	<p>Used to display the Annotation/Bookmark Selection List</p> <p>You can:</p> <ul style="list-style-type: none"> <li>■ Select or delete an existing annotation or bookmark, or create a new one.</li> <li>■ Position the report so that the line to which the annotation/bookmark is attached is at the top of the screen.</li> </ul>

## Annotation/Bookmark Selection List

Enter the GOTO primary command while browsing a report to display the Annotation/Bookmark Selection List.

This panel displays annotation and bookmarks in alphabetic order:

```

CA View ALL ----- Annotation/Bookmark Selection List      -Row nnnnn of nnnnn
Command ==>                                               Scroll ==>

      Report ==> REPORT1      OF 06/07/2013 AT 17:11:35

Sel ID          Type ----- Last Changed -----
NOTE1          A      06/07/2013 18:57:27 DMOORE
NOTE2          A      06/07/2013 18:59:37 CC00K
NOTE3          A      06/07/2013 19:03:03 CC00K
BKMK1          B      06/07/2013 21:03:06 CC00K
BKMK2          B      06/07/2013 21:13:28 CC00K
    
```

This an example of the Annotation/Bookmark Selection List in ALL mode after scrolling right once.

```

CA View ALL ----- Annotation/Bookmark Selection List      -Row nnnnn of nnnnn
Command ==>                                               Scroll ==>

      Report ==> REPORT1      OF 06/07/2013 AT 17:11:35

Sel ID          Description
NOTE1          NOTES FOR REPORT1
NOTE2          MORE NOTES FOR REPORT1
NOTE3          NOTES RE: DIVISION 3
BKMK1          PAGE 0000001.001
BKMK2          PAGE 0000002.001
    
```

Use the commands in the following list to create and manage annotations and bookmarks from the Annotation/Bookmark Selection List:

**A**

Positions the display to the first annotation

**A name**

Creates a new annotation as follows:

If the name annotation does not exist, it is attached to the line at the top of the report screen

If the name annotation exists, this command displays the annotation.

**B**

Positions the display to the first bookmark.



**B name**

Creates a new bookmark (if the name bookmark does not exist) and attaches it to the line at the top of the report screen

If the name bookmark exists, an error message is displayed.

**L name**

Locates the first occurrence of an item starting with the specified string (that is, generic positioning), regardless of whether it is an annotation or a bookmark

**L name ANNOTATE or L name A**

Locates the first occurrence of an annotation starting with the specified string (that is, generic positioning)

**L name BOOKMARK or L name B**

Locates the first occurrence of a bookmark starting with the specified string (that is, generic positioning)

**S name ANNOTATE or S name A**

Creates a new annotation (if the name annotation does not exist) and attaches it to the line at the top of the report screen

If the name annotation exists, this command displays the annotation.

**S name BOOKMARK or S name B**

Creates a new bookmark (if the name bookmark does not exist) and attaches it to the line at the top of the report screen

If the name bookmark exists, an error message is displayed.

**Note:** The LOCATE command when used with annotations and bookmarks is only valid on the Annotation/Bookmark Selection List panel. You might receive an INVALID LABEL message if you use the LOCATE command with annotations and bookmarks on other panels.

The Annotation/Bookmark Selection List fields are described in this list:

**Sel**

Valid codes are

**D**

Delete the annotation or bookmark

**L**

Locate the annotation or bookmark

This code repositions the report so that the line to which the annotation or bookmark is attached is at the top of the screen.

**S**

Select an annotation to view/edit its contents

**ID**

Annotation/bookmark identifier (name)

**Type**

Valid codes are:

**A**

Annotation

**B**

Bookmark

**Last Changed (first field)**

Displays the date last modified

**Last Changed (second field)**

Displays the time last modified

**Last Changed (third field)**

Displays the name of the user who last modified the annotation

**Description**

Displays the user-specified description of the annotation

Bookmarks have no description so this field contains only the page number and page record number.

## Annotation Definition Panel

Once you select an annotation, the Annotation Definition panel is displayed. Each annotation consists of several sections. The sections are separated by an identification line indicating the person, date and time of creation, and the access mode (public or private).

Because you can type over the entire annotation text area, it appears that the existing text is being erased but it is *not*; a message notifies you that:

- Additions have been accepted
- Changes to pre-existing text were ignored.

Since bookmarks are only used for positioning and contain no modifiable information, they cannot be displayed for modification. They can, however, be deleted from the Annotation/Bookmark Selection List panel.

## How Annotations Are Stored

Annotations are stored in chronological create/update order. Users are only able to append to the bottom of the annotation text; once a section has been saved, its contents cannot be changed.

**Note:** The text of the annotation is stored in encrypted compressed form in the master index of the CA View database.

## Annotation Definition Panel

This illustration shows a panel with an area for adding data. The user must specify the access mode (public or private) for this new section. The user can also specify or change the annotation's description.

```

CA View ALL Annotation - NOTE1 -----
Command ==>                               Scroll ==>

Report ==> REPORT1      OF 06/07/2013 AT 17:11:35
          Page 0000001 Line 001

Description ==> NOTES FOR REPORT1
New Text Access ==> PRIVATE

Sel Text
- ----- CCOOK      ON 06/07/2013 AT 18:41:16, PUBLIC -----
  This is my first annotation.
  ----- CCOOK      ON 06/08/2013 AT 18:42:12, PRIVATE -----
  Here I can put a private personal reminder (only I can view it).
  ----- DMOORE     ON 06/08/2013 AT 18:57:27, PUBLIC -----
  Another person has appended more information here. It is public, so
  I can see it. This person may also have added a private note which I
  would never see.
  ***** YOU CAN ADD YOUR COMMENTS BELOW *****
  
```

This is a list of the Annotation commands and descriptions.

### Command

Allows you to enter one of the following commands In addition to the system-wide scrolling commands: Down, Up, Max down, Half page up, and so on

### CANcel

Returns without saving any changes and without repositioning the report to the line containing this annotation

### DELeTe

Deletes this annotation

- Does not reposition the report to the line used to contain this annotation.
- Your own private or public annotations can be deleted.
- The system administrator can delete any annotation.

### LOC

Saves any additions to this annotation and repositions the report to the line containing this annotation

### END

Saves additions to this annotation and returns without repositioning the report to the line containing this annotation

**Report** \_\_\_\_\_ of \_\_/\_\_/\_\_ at \_\_:\_\_:\_\_

The ID of the report to which this annotation is attached and the date and time the report was created

**Page**

The number of the page to which this annotation is attached

**Line**

The number of the record on the page to which this annotation is attached

**New Text Access**

The valid access mode; valid modes are:

**PRIVATE**

Private annotation, abbreviated as PR

**PUBLIC**

Public annotation, abbreviated as PU

**Sel**

Allows you to enter any of the system-wide selection codes for manipulating data: Insert, Delete, Repeat, Copy, and Move.

Also, enter PU on the section identification line to change a private annotation to a public one.

**Note:** Because you can see only your own private annotations, those are the only ones you can make public.

**Text**

Specifies the free-form text of the annotation



# Chapter 6: Printing Output

---

This chapter explains online and batch printing methods, printer selection, communication with external printing devices, print attribute specifications, and CA Deliver bundle reprinting.

You can print CA View or archived CA Deliver output either online or in batch mode. The two print commands are:

- P (PRT)  
Selects output for printing directly through online CA View
- J (JPRT)  
Selects output for printing using a batch (background) job

You can enter these commands in any of the following ways:

- Enter selection code P or J in a Sysout, JOB, or Data Set List Selection panel
- Enter selection code J in an Index Selection List
- Enter J or JPRT on the command line of any browse panel
- Enter P or PRT on the command line of any browse panel

This section contains the following topics:

[Online and Batch Printing—P and J Commands](#) (see page 200)

[Specifying a Printer Device—DEST Print Attribute](#) (see page 210)

[The EXTERNAL Print Interface](#) (see page 212)

[EXTERNAL Printing—JES Data Set Interface](#) (see page 213)

[EXTERNAL Printing—Dynamic Program Call](#) (see page 215)

[Print Attribute Panels](#) (see page 216)

[Print Output Parameters](#) (see page 235)

[Reprinting Output Management Bundles](#) (see page 244)

## Online and Batch Printing—P and J Commands

Both the P and the J commands initiate print processes: P prints directly online and J prints by running a batch job. These print methods differ as follows:

- The J print method prints through a background, batch job by providing input fields that create, modify, or both the JCL that runs the job; the P method does not.
- Several print attributes used by the J print method are not available under the P print method.
- Once you enter the SUBMIT command for a batch print job (J selection code), or when you log off, the Reprint JCL Panel JCL appears for you to modify the JOB statement information.
- For JOB mode, if the reports associated with the job reside on more than one tape, any P type online reprint is automatically changed to J type batch reprint.



## Accessing Output on Disk and Tape for Printing: Considerations

These considerations apply to archived output that you want to retrieve for printing.

- For all modes, you have immediate access to the selected output if it meets any of these criteria:
  - Resides on disk
  - Has been temporarily loaded to disk
  - Resides on optical disk with page-level retrieval
  - Resides on tape and you are using EAS for tape and robotics.
- For JOB mode only, you have immediate access to the selected output if all of the reports for the job reside on the same tape and if you are using EAS.
- If your selected output resides only on tape and you are authorized for online tape mounts, the system operator is notified to mount the tape.

**Note:** Only TSO and ISPF/SPF online allow tape mounting. For all TSO users (both native TSO and ISPF/SPF), whether you are authorized for online tape mounts is determined by how your system administrator has set up your TSO ACCOUNT command.

Your terminal remains locked until the tape has been mounted and your output has been copied to disk.

- If your selected output resides on optical disk with file-level retrieval the output is loaded back to DASD.

**Note:** Choose to disable all online tape mounts for CA View with the MOUNT=NO initialization parameter.

**Note:** A site can choose to disable all online tape mounts for CA View with the MOUNT=NO initialization parameter.

## Using the P and J Commands

This section explains how to use the P and J commands.

### ALL and SARO Modes

This section provides procedures for printing output in ALL and SARO modes.

## P Command

To print output in ALL and SARO modes with the P command, follow these steps:

1. In the Sysout Selection List, enter *P* in the Select column of the output you want to print
2. Press Enter to display the main Print Attribute panel.

**Note:** See the section Main Print Attribute Panel later in this chapter for more information.

```

CA View ALL ----- Print Attribute Panel -----
Command ==>

ID    ---> SWILAROG
Job   ---> SWILAROG   Jobid ---> JOB05739

Print Attributes:
BANNER ==> DEFAULT   CLASS ==> 3         DEST ==> LOCAL
COPIES ==> 1         BURST ==> N        FORM ==> STD
FCB ==>             OPTCDJ ==> N       FLASH ==> ( , )
UCS ==>             HOLD ==> N       MODIFY ==> ( , )
FORMDF ==>          PAGEDF ==>       PRMODE ==>
LINECT ==>          VIEW ==>         PRTY ==>
CHARS ==> ( , , , , ) WRITER ==>
COPYG ==> ( , , , , , , , )
PAGE ==>
RECORD ==>

Press ENTER to confirm or enter END command to cancel
    
```

3. Verify or change the print attributes in the main Print Attribute panel, then do one of the following:
  - If you want to print from this panel, press Enter to process the output online.
  - If you want to print from an optional printer panel, go to Step 4.
4. In the main Print Attribute panel, do one of the following:
  - To print on the primary optional printer, enter *P* on the command line, press Enter to display the primary printer panel, then go to Step 5.
  - To print on the alternate optional printer, enter *A* on the command line, press Enter to display the alternate printer panel, then go to Step 6.
5. In the primary printer panel, validate the print attributes, then press Enter to process the output online.
6. In the alternate printer panel, validate the print attributes, then press Enter to process the output online.

## J Command

When you use the J command in ALL or SARO mode, a batch job is created to print the output you specify. The job is submitted when you exit the product or issue the SUBMIT command.

1. In the Sysout Selection List, enter *J* in the Select column of the output you want to print, and then press Enter to display the main Print Attribute panel.

**Note:** For more information about this panel, see the section Main Print Attribute Panel later in this chapter.

2. Verify or change the print attributes in the main Print Attribute panel, and then do one of the following:
  - To print from this panel, press Enter.  
The output is queued for printing.
  - To print from an optional printer panel, go to Step 3.
3. In the main Print Attribute panel, do one of the following:
  - To print on the primary optional printer, enter *P* on the command line, press Enter to display the primary printer panel, then go to Step 4.
  - To print on the alternate optional printer, enter *A* on the command line, press Enter to display the alternate printer panel, then go to Step 5.
4. In the primary printer panel, press Enter to queue the output for printing.
5. In the alternate printer panel, press Enter to queue the output for printing.
6. Do one of the following to submit the batch print job:
  - Issue the SUBMIT command.
  - Exit CA View.
7. When the Batch Card JCL panel appears, verify the JOB statement information.

## EXPO Mode

This section provides procedures for printing output in EXPO mode.

## P Command

To print output in EXPO mode with the P command, follow these steps:

1. In the Report Selection List, enter *P* in the Select column of the output you want to print, and then press Enter to display the main CA Deliver Reprint Attribute panel:

**Note:** For more information about this panel, see Main CA Deliver Reprint Attribute Panel.

```

CA View EXPO ----- CA Deliver Reprint Attribute Panel -----
Command ==>

  ID    ---> IEBGENER
  Job   ---> CBROERIA   Jobid  ---> JOB09266

Attributes:
BANNER ==> DEFAULT      BURST ==> N           CLASS ==> L
COPIES ==>             FCB   ==>             FLASH ==> ( , )
FORM   ==> COOK        HOLD  ==> N           MODIFY ==> ( , )
OPTCDJ ==> N          UCS   ==>             WRITER ==>
FORMDF ==>           PAGEDF ==>           PRMODE ==>
LINECT ==>           PRSET ==>           VIEW   ==>
CHARS  ==> ( , , , , )  PRTY  ==>
COPYG  ==> ( , , , , , , , , )
PAGE   ==>
RECORD ==>

The following attributes may be selected by entering the 1-character selection
code on the command input line:
  D - Distribution specifications.   I - Special instructions.

Press ENTER to confirm or enter END command to cancel
    
```

2. Check the print attributes in the main CA Deliver Reprint Attribute panel, and then do one of the following:
  - If you want to print from this panel, press Enter to process the output online.
  - If you want to print from an optional printer panel, go to Step 3.
3. In the main CA Deliver Reprint Attribute panel, do one of the following:
  - To print on the primary optional printer, enter *P* on the command line, press Enter to display the primary printer panel, and then go to Step 4.
  - To print on the alternate optional printer, enter *A* on the command line, press Enter to display the alternate printer panel, and then go to Step 5.
4. In the primary printer panel, validate the print attributes, and then press Enter to process the output online.
5. In the alternate printer panel, validate the print attributes, and then press Enter to process the output online.

## J Command

When you use the J command in EXPO mode, a batch job is created to print the output you specify.

**Note:** The job is submitted when you exit the product or issue the SUBMIT command.

1. In the Report Selection List, enter *J* in the Select column of the output you want to print, then press Enter to display the main CA Deliver Reprint Attribute panel.

**Note:** For more information about this panel, see Main CA Deliver Reprint Attribute Panel.

2. Verify/change the print attributes in the main CA Deliver Reprint Attribute panel, then do one of the following:
  - If you want to print from this panel, press Enter to queue the output for printing.
  - If you want to print from an optional printer panel, go to Step 3.
3. In the main CA Deliver Reprint Attribute panel, do one of the following:
  - To print on the primary optional printer, enter *P* on the command line, press Enter to display the primary printer panel, and then go to Step 4.
  - To print on the alternate optional printer, enter *A* on the command line, press Enter to display the alternate printer panel, and then go to Step 5.
4. In the primary printer panel, press Enter to queue the output for printing.
5. In the alternate printer panel, press Enter to queue the output for printing.
6. Do one of the following to submit the batch print job:
  - Issue the SUBMIT command.
  - Exit CA View.
7. When the Batch Card JCL panel appears, verify the JOB statement information.

## SAR Mode

This section provides procedures for printing output in SAR mode.

## P Command

To print output in SAR mode with the P command, follow these steps:

1. In the Sysout Selection List, enter *P* in the Select column of the output you want to print, and then press Enter to display the Primary Print Attribute panel.

```
CA View SAR ----- Print Attribute Panel -----
Command ==>

ID   ---> SWILSON5
Job   ---> SWILAROG   Jobid ---> JOB05739

*----- Primary -----*
| BANNER ==>          | BANNER ==>
| CLASS  ==> T       | CLASS  ==>
| DEST   ==>          | DEST   ==>
| WRITER ==>          | WRITER ==>
|-----|
Enter optional page/record range(s):
PAGE  ==>
RECORD ==>

Press ENTER to confirm or enter END command to cancel
```

2. Verify/change the print attributes, and then do *one* of the following:
  - To print from this panel, press Enter to queue the output for printing.
  - To print from an alternate optional printer panel, enter *A* on the command line, then press Enter to display the Alternate Print Attribute panel.
3. In the Alternate Print Attribute panel, validate the print attributes, then press Enter to process the output online.

```

CA View SAR ----- Print Attribute Panel -----
Command ==>

ID    ---> SWILSON5
Job   ---> SWILAROG   Jobid ---> JOB05739

                                     *----- Alternate -----*
                                     |
BANNER ==>                           | BANNER ==>
CLASS  ==> T                         | CLASS  ==>
DEST   ==>                           | DEST   ==>
WRITER ==>                           | WRITER ==>
                                     |
                                     *-----*

Enter optional page/record range(s):
PAGE  ==>
RECORD ==>

                                     Press ENTER to confirm or enter END command to cancel

```

## J Command

When you use the J command in SAR mode, a batch job is created to print the output you specify.

**Note:** The job is submitted when you exit the product or issue the SUBMIT command.

1. In the Sysout Selection List, enter *J* in the Select column of the output you want to print, and then press Enter to display the Primary Print Attribute panel.
2. Do one of the following in the Primary Print Attribute panel:
  - To print from this panel, press Enter.  
The output is queued for printing.
  - To print on an alternate optional printer, enter *A* on the command line, then press Enter to display the Alternate Print Attribute (optional) panel.
3. In the Alternate Print Attribute (optional) panel, press Enter to queue the output for printing.
4. Do one of the following to submit the batch print job:
  - Issue the SUBMIT command.
  - Exit CA View.
5. When the Batch Card JCL panel appears, verify the JOB statement information.

## EXP Mode

This section provides procedures for printing output in EXP mode.

## P Command

To print output in EXP mode with the P command, follow these steps:

1. In the Report Selection List, enter *P* in the Select column of the output you want to print, and then press Enter to display the Primary CA Deliver Reprint Attributes panel.
2. Do one of the following:
  - To print from this panel, validate the print attributes, then press Enter to process the output online.
  - To print on an alternate optional printer, proceed to Step 3.
3. To print on the alternate optional printer, enter *A* on the command line of the Primary CA Deliver Reprint Attributes panel, then press Enter to display the Alternate CA Deliver Reprint Attributes panel.
4. In the Alternate CA Deliver Reprint Attributes panel, validate the print attributes, and then press Enter to process the output online.

## J Command

To print output in EXP mode with the J command, follow these steps:

1. In the Report Selection List, enter *J* in the Select column of the output you want to print, then press Enter to display the Primary Print Attribute (optional) panel.
2. In the CA Deliver Primary Print Attributes panel, do one of the following:
  - To print from this panel, validate the print attributes, and then press Enter. The output is queued for printing.
  - To print on an alternate printer, enter *A* on the command line of the CA Deliver Primary Print Attributes panel, then press Enter to display the CA Deliver Alternate Reprint Attributes panel.
3. In the CA Deliver Alternate Reprint Attributes panel, press Enter to queue the output for printing.
4. To submit the batch print job, do one of the following:
  - Issue the SUBMIT command.
  - Exit CA View.
5. When the Batch Card JCL panel appears, verify the JOB statement information.



## JOB Mode

This section provides procedures for printing output in JOB mode.

### P Command

To print output in JOB mode with the P command, follow these steps. These steps print all reports associated with the job.

1. In the Job Selection List, enter P in the Select column of the job output.
2. Press Enter to display the main Print Attribute panel.

**Note:** For more information about the attributes, see [Main Print Attribute Panel](#) (see page 217).

```

CA View JOB ----- Print Attribute Panel -----
Command ==>

ID   ---> SWILAROG
Job  ---> SWILAROG   Jobid ---> JOB05739

Print Attributes:

BANNER ==> DEFAULT      CLASS ==> 3           DEST ==> LOCAL
COPIES ==> 1           BURST ==> N          FORM ==> STD
FCB ==>                OPTCDJ ==> N         FLASH ==> ( , )
UCS ==>                HOLD ==> N           MODIFY ==> ( , )
FORMDF ==>            PAGEDF ==>          PRMODE ==>
LINECT ==>            VIEW ==>                PRTY ==>
CHARS ==> ( , , , , ) WRITER ==>
COPYG ==> ( , , , , , , )
PAGE ==>
RECORD ==>
    
```

3. Verify or change the print attributes in the main Print Attribute panel, and perform one of these actions:
  - To print from this panel, press Enter.
  - To print on the primary optional printer, enter P on the command line, and press Enter to display the primary printer panel. Validate the print attributes, and press Enter.
  - To print on the alternate optional printer, enter A on the command line, and press Enter to display the alternate printer panel. Validate the print attributes, and press Enter.
  - If the reports associated with the job reside on more than one tape, any P type online reprint is automatically changed to J type batch reprint.

The output is processed online.

### J Command

When you use the J command in Job mode, a batch job is created to print the output that you specify. The job is submitted when you exit the product or issue the SUBMIT command. Follow these steps to print all reports associated with the job:

1. Enter a J in the Select column of the job output that you want to print, and press Enter to display the main Print Attribute panel.

**Note:** For more information about the attributes, see [Main Print Attribute Panel](#) (see page 217).

2. Verify or change the print attributes in the main Print Attribute panel, and perform one of these actions:
  - To print from this panel, press Enter.
  - To print on the primary optional printer, enter P on the command line, and press Enter to display the primary printer panel. Press Enter again.
  - To print on the alternate optional printer, enter A on the command line, and press Enter to display the alternate printer panel. Press Enter again.
  - To cancel, enter the END command.

The output is queued for printing.

3. Perform one of these actions to submit the batch print job:
  - Issue the SUBMIT command.
  - Exit CA View.
4. When the Batch Card JCL panel appears, verify the JOB statement information.

## Specifying a Printer Device—DEST Print Attribute

You can specify many different printer devices for one mainframe system. These devices can be either printers or PCs that accept data sets that are downloaded from a mainframe.

Do the following:

- Use the P or J command to initiate all processes that access printers or PCs for data set downloading.
- Use the DEST print attribute to specify the output destination (where the output is being printed or downloaded).

The DEST print attribute appears on all CA View print attribute panels.

## Identifying Printer Devices

Printer devices are identified with one of the following name types:

- Actual system name
- Printer subsystem name
- Names that your System Administrator has assigned

A maximum of seven types of printer locations can be set up for printing output through CA View. The printer types and their DEST ID field formats are:

### JES Printer

The JES printer type indicates the standard CA View printer that prints through JES or CA Spool, depending on the value of the PRINTO SARINIT parameter.

DEST ==> xxxxxxxx

### External Writer

The external writer type indicates printers in external printing subsystems that print through JES.

DEST ==> xxxxxxxx

### CA Spool Printers

The CA Spool (CA Spool Print Management) type indicates printers on the CA Spool print subsystem that print directly to the CA Spool database, and do not go through JES.

Use one of these formats:

#### CMA printer

Specify the device ID of the CMA printer. Use the following format:

DEST ==> CMA.*device-id*

Use the PRINTO and CMASPOOL parameters of the SARINIT utility to configure the printing of output to a default CA Spool system. For details, see these parameters in the *Reference Guide*.

To print to a non-default CA Spool system, enter a *device-id* that specifies a non-default CA Spool system. For details about creating and maintaining devices, see the *Reference Guide*.

#### *subsysid.dest*

For individual reports or jobs, users can optionally print and email output to an *alternate* CA Spool system instead of the default system, using the Print Attributes Panel.

*subsysid* is the 4 character subsysid of the alternate CA Spool system.

*dest* is a 1-8 character destination of this alternate CA Spool system.

**Note:** For details about specifying these values, see the “Printing Output” chapter.

#### VTAM Print Option

The VTAM print option type indicates printers on the VTAM print subsystem that print directly to printers, and do not go through JES. This type is designed for an IBM 3287 printer configuration, with LU type = 3. Consult your VTAM expert if necessary.

DEST ==> *VPO.device-id*

#### Synonym

The synonym type is a printer that has been renamed through CA View (using the DEFine DEvice online facility and SARbCH batch facility) so that it can have a meaningful name for you (for example, PRINTER1, COPYROOM, EDGAR, and so on).

DEST ==> *synonym-id*

#### External Printer

The external printer type is a direct interface to a product from another software or hardware company.

DEST ==> *>printerid.attributes*

For more information about printers that are accessed with the DEST print attribute, see the section Defining Output Devices in the chapter "System Administration: Defining Online Specifications."

## The EXTERNAL Print Interface

The External Print Interface is a direct interface between CA View and any printing product that might be used to reprint a SYSOUT or report. CA View communicates directly with these external printing products using online specifications and parameters set during initialization.

To simplify specification at reprint time, you can define an EXTERNAL printing device with the online DEFine DEvice command. Your system administrator can use the online DEFine DEvice command to assign a printer alias name (such as PRINTR1) to simplify the specification of an external printer.

**Note:** For more information about defining output devices with DEFine DEvice, see the chapter "System Administration: Defining Online Specifications".

CA View uses the JES data set interface and the Dynamic Program Call Interface to pass the External Print Record (XPR) to the external printing product.

## EXTERNAL Printing—JES Data Set Interface

To select a SYSOUT group for printing by the external printing product, use the following format to specify a destination (DEST field of a Print Attribute panel).

*>printer-id.attributes*

where:

>

Signifies that the SYSOUT group is to be printed by an external printing product

### **printer-id**

The 1- to 3-character external print identifier that matches the value set for the corresponding EXTPRT*n* initialization parameter

### **attributes**

Specifies the replacement values for any of the parameters that were specified as an asterisk in the corresponding EXTPRT*n* initialization parameter

The values must be specified in the same order as the sub parameters (that is, class, destination, form name, and writer name). If more than one value is supplied, values must be separated by periods.

### **Example**

Assume the following:

- You want to print to an external device using the JES Data Set Interface
- The printer ID is VPS
- The class is V
- The destination is LOCAL
- You want the writer name to be supplied online when the print request is made.

Your system administrator could define the following initialization parameter:

```
EXTPRT1=VPS/JESDS/V/LOCAL/**
```

**Note:** Notice the use of the asterisk in the EXTPRT parameter in the writer position. The asterisk indicates that the writer name is to be supplied online at the time of the print request.

For the online print request, specify the following destination:

```
DEST ==> >VPS.RMT5
```

A SYSOUT data set is dynamically created to contain the XPR record. The attributes for the data set correspond to this JCL statement:

```
//ddname DD SYSOUT=(V,RMT5),DEST=LOCAL
```

## EXTERNAL Printing—Dynamic Program Call

With the Dynamic Program Call interface, CA View dynamically loads and calls a program to handle the print request. The following information is passed to the program:

- The external print record (XPR)
- The parameter data specified in the EXTPRT*n* initialization parameter
- The destination specified by the user on the print request.

To select a SYSOUT group for printing by the external printing product, specify a destination (DEST field of a Print Attribute panel) using the following format:

*>printer-id.parameter-data*

where:

>

Signifies that the SYSOUT group is to be printed by an external printing product

**printer-id**

The 1- to 3-character external print identifier that matches the value you set for the corresponding EXTPRT*n* initialization parameter

**parameter-data**

The additional parameter data to be passed to the interface program

### Example

Assume the following:

- You want to print to an external device using the Dynamic Program Call Interface
- The printer ID is ANA
- The program to be called is ANAEP
- The characters NOBANNER are to be passed to the program.

Your system administrator might define the following initialization parameter:

EXTPRT2=ANA/PGM/ANAEP/NOBANNER

For the online print request by the user, specify the following destination:

DEST ==> >ANA.INDEX

CA View dynamically loads and calls the program ANAEP. The parameter list to the program contains the addresses and lengths of the following:

- The character string NOBANNER

- The character string INDEX
- The XPR record

## Print Attribute Panels

The Online System provides two types of print attribute panels: main and optional.

The *main* type of print attribute panel includes a list of the most commonly used print attributes. These attributes are shown as data fields, available to users in ALL, SARO, EXPO and JOB modes.

The default data contained in these fields comes from the print data archived with the output when that output was originally produced.

To see a full list of print attributes on the Print Output Parameters panel, enter the O command and press Enter. For more information, see the Print Output Parameters topic later in this chapter.

The *optional* type of print attribute panel offers a shortened list of four print attributes shown as data fields for the print process.

These panels—the primary optional panel and the alternate optional panel—are provided as shortcuts from the full list of attributes in the main attribute panel for users in ALL, SARO, EXPO and JOB modes. These panels are the exclusive print attribute panels for SAR and EXP users. The data contained in these fields is kept by the product on a per-session basis.

Print attributes are extracted from //OUTPUT statements at the time output is produced. For reports produced through CA Deliver, attributes for reprinting are extracted only if those reports were archived with the Automatic Report Archival feature of CA View System Extensions.



## Main Print Attribute Panel

The Main Print Attribute panel appears with default data in the fields when you select a SYSOUT group for printing from one of these lists:

- Sysout Selection List in ALL or SARO mode
- Job Selection List in JOB mode

**Note:** Default data comes from print attribute data that was part of the output when it was originally archived. In JOB mode, the print attribute data is associated with the first report for the job. The data fields correspond to the most commonly used print attributes available through CA View. You can delete or modify any of the data in these fields.

To see a full list of print attributes on the Print Output Parameters panel, enter the *O* command (which can also be entered as *OUT* or *OUTPUT*) and press Enter. For more information, see the Print Output Parameters topic later in this chapter.

The following sample illustrates the main Print Attribute panel that is provided to users in ALL, SARO, and JOB modes.

**Note:** For JOB mode, the ID field does not appear.

```

CA View mode ----- Print Attribute Panel -----
Command ==>

  ID   ---> SWILAROG
  Job  ---> SWILAROG   Jobid ---> JOB05739

PRINT ATTRIBUTES:      INCLUDE AFP RESOURCES==> YES
BANNER ==> DEFAULT      CLASS ==> 3             DEST ==> LOCAL
COPIES ==> 1            BURST ==> N            FORM ==> STD
FCB ==>                OPTCDJ ==> N           FLASH ==> ( , )
UCS ==>                HOLD ==> N           MODIFY ==> ( , )
FORMDF ==>             PAGEDF ==>           PRMODE ==>
LINECT ==>             VIEW ==>           PRTY ==>
CHARS ==> ( , , , )    WRITER ==>
COPYG ==> ( , , , , , , , )
PAGE ==>
RECORD ==>

                          Press ENTER to confirm or enter END command to cancel

```

The print attribute data fields are explained in the Field Descriptions section below.

## Using the SAR Command to Display This Panel

CA View provides a shortcut method that immediately displays the main Print Attribute panel from any EXPO Mode or EXP Mode Print Attribute panel. This method uses the SAR command.

You can use the SAR command from the main CA Deliver Reprint Attribute panel and from both of the optional CA Deliver Reprint Attribute panels (Primary and Alternate).

Enter the SAR command, as follows:

Command ==> SAR

## Field Descriptions

The following table describes the fields in the Print Attribute panel:

Field	Description	Number of Fields
INCLUDE AFP RESOURCES	Allows the user to override the global ACIFRES setting. This attribute is only displayed for ACIF reports. <b>Note:</b> The global value of ACIFRES will be displayed when the panel is initially displayed.	
BANNER	The name of the model banner page to use for producing beginning and ending banner pages for the report If BANNER is not specified, the user's default banner page is used If BANNER is specified as *, no banner pages are used.	1
CLASS	The SYSOUT class	1
COPIES	The number of copies Valid values are 1 to 255.	1
FCB	The name of the forms control image	1
UCS	The name of the special character set The valid value is 1.	1
FORMDF	The name of the form definition to be used to print the SYSOUT with the 3800 printing subsystem <b>Note:</b> You cannot use this field when printing with the P command.	1

Field	Description	Number of Fields
LINECT	The number of lines to print per page <b>Note:</b> You cannot use this field when printing with the P command.	1
CHARS	The 3800-printer character arrangement table names	1 to 4
COPYG	The 3800-printer copy group values Valid values are 1 to 255.	1 to 8
PAGE	A list of pages or ranges of pages to be printed Separate each page or range of pages in the list by blanks or commas, or both. A range of pages is specified as two pages separated by a colon.	1 to 9
RECORD	A record or range of records to be printed Separate each record or range by blanks or commas, or both. A range of records is specified as two record numbers separated by a colon.	1 to 9
DEST	The printer destination The following are valid values: <ul style="list-style-type: none"> <li>■ JES printer</li> <li>■ External writer</li> <li>■ CA Spool printers <ul style="list-style-type: none"> <li>- CMA printer</li> <li>- <i>subsysid.dest</i></li> </ul> </li> <li>■ VTAM printer</li> <li>■ External Printer</li> <li>■ Printer synonym</li> </ul> See Identifying Printer Devices earlier in this chapter for an explanation of each destination type.	1
BURST	Specifies whether output is to be burst by a 3800 printer Valid values are Yes and No.	1
OPTCDJ	Specifies whether the SYSOUT records contain table reference characters	1
HOLD	Specifies whether output is to be placed on a held queue	1

Field	Description	Number of Fields
PAGEDF	The name of the page definition used to print the SYSOUT with the 3800 printing subsystem You cannot use this field if you are printing with the P command.	1
VIEW	The defined view for printing	1
FORM	The forms name	1
FLASH	The 3800 forms flash overlay name <i>and</i> flash count Valid values are 1 to 255 (flash count).	1 for each
MODIFY	The 3800 copy modification module name <i>and</i> table reference character	1 name, 0 to 3 table reference characters
PRMODE	The process mode to be used to print the SYSOUT with the 3800 printing subsystem	1
PRTY	Assigns selection priority to job Valid values are 0 to 255.	1
WRITER	The external writer name. If an '*' is specified for the WRITER field, all WRITER specifications are nullified.	1

**Note:** If you do not specify either PAGE or RECORD, the entire SYSOUT group is printed.

## Overriding Options with Initialization Parameters

The default data that appears in the main Print Attribute panel that was assigned to the output when it was originally archived can be overridden.

Use these initialization parameters to override the default data:

**NEWCLSL**

Overrides CLASS data field.

**NEWDEST**

Overrides DEST data field.

**NEWFORM**

Overrides FORM data field.

**TSOCLS**

Overrides CLASS field.

This value has priority over NEWCLSL for online printing (selection code P).

**TSODEST**

Overrides DEST data field.

This value has priority over NEWDEST for online printing (selection code P).

**TSOFORM**

Overrides FORM data field .

This value has priority over NEWFORM for online printing (the P command).

**JCLASS**

Overrides CLASS data field .

This value has priority over NEWCLSL for batch printing (the J command).

## Main CA Deliver Reprint Attribute Panel

When you select a report for printing from the Report Selection List in EXPO mode, the CA Deliver Reprint Attribute panel is displayed with default data in the fields. Note the following:

- Default data comes from print attribute data that was part of the report when it was originally archived.
- The data fields correspond to the most commonly used print attributes available for CA Deliver reports archived through CA View.
- You can delete or modify data in any of these fields.

To see a full list of print attributes on the Print Output Parameters panel, enter the OUTPUT command (abbreviate as O or OUT) and press Enter. For more information, see the Print Output Parameters topic later in this chapter.

This illustration is a sample of the main CA Deliver Reprint Attribute panel that CA View provides users in EXPO mode:

```

CA View EXPO ----- CA Deliver Reprint Attribute -----
Command ==>

  ID   ---> IEBGENER
  Job  ---> CBROERIA   Jobid ---> JOB09266

Attributes:          INCLUDE AFP RESOURCES==> YES
BANNER ==> DEFAULT   BURST ==> N           CLASS ==>
COPIES ==>           FCB ==>           FLASH ==> ( , )
FORM ==> COOK        HOLD ==> N         MODIFY ==> ( , )
OPTCDJ ==> N         UCS ==>           WRITER ==>
FORMDF ==>          PAGEDF ==>         PRMODE ==>
LINECT ==>          PRSET ==>         VIEW ==>
CHARS ==> ( , , , , )  PRTY ==>
COPYG ==> ( , , , , , , , , )
PAGE ==>
RECORD ==>

The following attributes may be selected by entering the 1-character selection
code on the command input line:
  D - Distribution specifications.   I - Special instructions.

Press ENTER to confirm or enter END command to cancel
    
```

The print attribute data fields are explained in the Field Descriptions section that follows. The one-character selection codes that appear in the illustration are explained in the Print Attribute Selection Codes section.

## Using the EXP Command to Display This Panel

There is a shortcut method available that lets you immediately display the main CA Deliver Reprint Attribute panel from any EXPO Mode or EXP Mode Print Attribute panels. This method uses the EXP command.

You can use the EXP command from the main CA View Print Attribute panel in EXPO mode and from both of the optional CA Deliver Reprint Attribute panels (Primary and Alternate).

Enter the EXP command on the command line as follows:

Command ==> EXP

```

CA View EXPO ----- CA Deliver Reprint Attribute -----
Command ==>

  ID   ---> IEBGENER
  Job  ---> CBROERIA   Jobid ---> JOB09266

Attributes:
  INCLUDE AFP RESOURCES è YES
  BANNER ==> DEFAULT   BURST ==> N           CLASS ==>
  COPIES ==>           FCB ==>           FLASH ==> ( , )
  FORM ==> COOK        HOLD ==> N        MODIFY ==> ( , )
  OPTCDJ ==> N         UCS ==>           WRITER ==>
  FORMDF ==>          PAGEDF ==>        PRMODE ==>
  LINECT ==>          PRSET ==>        VIEW ==>
  CHARS ==> ( , , , , )   PRTY ==>
  COPYG ==> ( , , , , , , , , )
  PAGE ==>
  RECORD ==>

The following attributes may be selected by entering the 1-character selection
code on the command input line:
  D - Distribution specifications.   I - Special instructions.

Press ENTER to confirm or enter END command to cancel
    
```

## Field Descriptions

This table describes the fields in the CA Deliver Reprint Attribute panel:

Field	Description	Number of Fields
INCLUDE AFP RESOURCES	Lets the user override the global ACIFRES setting  This attribute is only displayed for ACIF reports.  <b>Note:</b> The global value of ACIFRES is displayed when the panel is initially displayed.	

Field	Description	Number of Fields
BANNER	The CA Deliver model banner page name	1
COPIES	Causes the COPIES JCL parameter to be used Valid values are Yes and No.	1
FORM	The forms name	1
OPTCDJ	Specifies whether the SYSOUT records contain table reference characters Valid values are Yes and No.	1
FORMDF	The name of the form definition to be used to print the SYSOUT with the 3800 printing subsystem <b>Note:</b> You cannot use this field if you are printing with the P command.	1
LINECT	The number of lines to print per page <b>Note:</b> You cannot use this field if you are printing with the P command.	1
CHARS	The 3800-printer character arrangement table names	1 to 4
COPYG	Specifies the 3800-printer copy group values Valid values are 1 to 255.	1 to 8
PAGE	A list of pages or ranges of pages to be printed Separate each page or range of pages in the list by blanks, commas, or both. A range of pages is specified as two pages separated by a colon.	1 to 9
RECORD	A record or range of records to be printed Separate each record or range by blanks and/or commas. A range of records is specified as two record numbers separated by a colon.	1 to 9
BURST	Specifies whether the output is to be burst by a 3800 printer Valid values are Yes and No.	1
FCB	The name of the forms control image	1



Field	Description	Number of Fields
HOLD	Specifies whether output is to be placed on a held queue Valid values are Yes and No.	1
UCS	The name of the special character set	1
PAGEDF	The name of the page definition used to print the SYSOUT with the 3800 printing subsystem <b>Note:</b> You cannot use this field if you are printing with the P command.	1
PRSET	The name of the printer setup member in the CA Deliver database. The records of this member are to be printed immediately following the report banner page and before the first records of the report.	1
CLASS	The SYSOUT class <ul style="list-style-type: none"> <li>■ If you do not fill in the override CLASS, the CLASS assigned to each CA Deliver DISTID is used.</li> <li>■ If you fill in the override class, it overrides the CA Deliver DISTID CLASS for all DISTIDs in this reprint.</li> <li>■ If a DISTID does not have a class defined in CA Deliver and no override class is specified, the original JCL class is used — this is the class that is shown on the SAR/SARO Reprint Attribute panel.</li> </ul>	1
FLASH	The 3800 forms flash overlay name and flash count Valid values are 1 to 255 (flash count).	1 for each
MODIFY	The 3800 copy modification module name and table reference character	1 name, 0 to 3 table reference chars
WRITER	The external writer name. If an "*" is specified for the WRITER field, all WRITER specifications are nullified.	1
PRMODE	The process mode to be used to print the SYSOUT with the 3800 printing subsystem	1

Field	Description	Number of Fields
VIEW	The defined view for printing	1
PRTY	Assigns selection priority to the job Valid values are 0 to 255.	1

## Print Attribute Selection Codes

Two print attributes are listed as selection codes on the CA Deliver Reprint Attribute panel:

- D  
Distribution identifiers for printing archived reports
- I  
Special instructions for printing archived reports

These selection codes and their respective panels are explained on the following pages.

## Distribution Identifier Panels

Your report printing occurs based on a list of distribution identifiers. These identifiers are displayed on the CA Deliver Reprint Attribute panel below.

To display this panel, do the following:

- Enter *D* on the command line of the main CA Deliver Reprint Attribute panel, and then press Enter.

```

CA View EXPO ----- CA Deliver Reprint Attribute Panel --- Row 00001 of 00003
Command ==>                                         Scroll ==> PAGE

  ID    ---> IEBGENER
  Job   ---> CBROERIA   Jobid ---> JOB09266

  Print All Distids ==> Y

Distribution Specifications:
Sel Grp  Dist ID                               Num Out Dest           Writer
        ATRIMBL                               1
        CBROERI                               1   N
        ATRIMBL                               1   N
***** BOTTOM OF DATA *****

```

- This is an example of scrolling to the right once.

```

CA View EXPO ----- CA Deliver Reprint Attribute Panel --- Row 00001 of 00003
Command ==>                                         Scroll ==> PAGE

  ID    ---> IEBGENER
  Job   ---> CBROERIA   Jobid ---> JOB09266

  Print All Dist IDs ==> Y

Distribution Specifications:
Sel Grp  Dist ID                               Distribute To: (Line 1)
        ATRIMBL
        CBROERI                               CHRYS COOK
        ATRIMBL                               ANNE TRIMBLE
***** BOTTOM OF DATA *****

```

**Note:** The EXPOPRV View initialization parameter specifies whether the user requesting the reprint in Express Operator (EXPO) mode is to be used for reprinting. When EXPOPRV=YES (the default), the Deliver DISTIDs for this report are replaced by the DISTID of the user requesting the reprint. To append the Deliver DISTIDs to the reprint list after the users DISTID, select option 'D' – Distribution Specifications on the CA Deliver Reprint Attributes screen. When EXPOPRV=NO, the DISTIDs in the reprint list are the original DISTIDs only. EXPOPRV works with the PRINT ALL DISTIDS and OUT parameters found on the Distribution Specification panel.

## Adding a Distribution ID for Printing

To add a distribution ID (DIST ID) for the report, follow these steps:

1. Insert a new line under the last line of data.
2. Place the DIST ID you want to add on the new line, aligned with the Dist ID column, then press Enter.
3. Enter *END* on the command line of your panel, then press Enter.
4. When the main CA Deliver Reprint Attribute panel is displayed, complete the printing process from that panel.

## Deleting a Distribution ID

To delete a (distribution ID) DIST ID so that the report will not be printed for that DIST ID, follow these steps:

1. Delete the line in the panel that contains the DIST ID you want to remove, then press Enter.
2. Enter *END* on the command line of your panel, then press Enter.
3. When the main CA Deliver Reprint Attribute panel is displayed, complete the printing process from that panel.

## Special Instructions Panel

A list of special instructions for your chosen report is displayed on the CA Deliver Reprint Attributes panel illustrated below. These instructions are printed on the report banner page when your report is printed.

To display this panel, do the following:

- Enter / in the command line of the main CA Deliver Reprint Attribute panel, and then press Enter.

```
CA View EXPO ----- CA Deliver Reprint Attribute Panel --- Row 00001 of 00001
Command ==>                                         Scroll ==> PAGE

  ID    ---> IEBGENER
  Job   ---> CBROERIA   Jobid  ---> JOB09266

Special Instructions:
Sel Instruction

***** BOTTOM OF DATA *****
```

## Adding Special Instructions for Printing

To add special instructions to the banner page of your report, follow these steps:

1. Insert a new line in the panel (see the sample panel above) under the last line of data.
2. Enter the special instructions you want to add on the new line, in line with the Instruction column, then press Enter.
3. Enter *END* on the command line of your panel, then press Enter.
4. When the main CA Deliver Reprint Attribute panel is displayed, complete the printing process from that panel.

## Deleting Special Instructions

To delete special instructions from the banner page of your report, follow these steps:

1. Delete the line in the panel that contains the special instructions you want to remove, then press Enter.
2. Enter *END* on the command line of your panel, then press Enter.
3. When the main CA Deliver Reprint Attribute panel is displayed, complete the printing process from that panel.

**Important!** If you do not specify both the *PAGE* and *RECORD* print attributes, the entire report is printed.

## Overriding Options with Initialization Parameters

The default data that appears in the main Print Attribute panel that was assigned to the output when it was originally archived can be overridden.

Use these initialization parameters to override the default data:

### **NEWCLSL**

Overrides CLASS data field.

### **NEWDEST**

Overrides DEST data field.

### **NEWFORM**

Overrides FORM data field.

### **TSOCLS**

Overrides CLASS field.

This value has priority over NEWCLSL for online printing (selection code P).

### **TSODEST**

Overrides DEST data field.

This value has priority over NEWDEST for online printing (selection code P).

### **TSOFORM**

Overrides FORM data field.

This value has priority over NEWFORM for online printing (selection code P).

### **JCLASS**

Overrides CLASS data field.

This value has priority over NEWCLSL for batch printing (selection code J).

## Optional Print Attribute Panels—SAR Mode

This section describes the optional Print Attribute panels which are shown below:

```

CA View SAR ----- Print Attribute Panel -----
Command ==>

ID ---> SWILSON5
Job ---> SWILSON5          JOBID ---> JOB05778

*----- Primary -----*
| BANNER ==>                | BANNER ==>
| CLASS ==> T              | CLASS ==>
| DEST ==>                | DEST ==>
| WRITER ==>              | WRITER ==>
|-----|
Enter optional page/record range(s):
PAGE ==>
RECORD ==>

Press ENTER to confirm or enter END command to cancel

```

```

CA View SAR ----- Print Attribute Panel -----
Command ==>

ID ---> SWILSON5
Job ---> SWILSON5          JOBID ---> JOB05778

BANNER ==>
CLASS ==> T
DEST ==>
WRITER ==>

*----- Alternate -----*
| BANNER ==>                |
| CLASS ==>                |
| DEST ==>                 |
| WRITER ==>               |
|-----|
Enter optional page/record range(s):
PAGE ==>
RECORD ==>

Press ENTER to confirm or enter END command to cancel

```

## Field Descriptions

This table describes the fields in the optional Print Attribute Panel:

### **BANNER**

Defines the name of the model banner page to use to produce the beginning and ending banner pages for the report.

- If BANNER is not specified, the user's default banner page is used
- If BANNER is specified as \*, no banner pages are used.

### **CLASS**

Defines the SYSOUT class.

### **DEST**

Defines the printer destination.

The following values are valid:

- JES printer
- External writer
- CA Spool printers
  - CMA printer
  - *subsysid.dest*
- VTAM printer
- External Printer
- Printer synonym

See the section Identifying Printer Devices earlier in this chapter for explanations of each destination type.

### **WRITER**

Defines the external writer name.

If an '\*' is specified for the WRITER field, all WRITER specifications are nullified.

### **PAGE**

Defines a list of pages (or page ranges) that are to be printed.

Separate each page or range of pages in the list with blanks, commas, or both. A range of pages is specified as two pages separated by a colon.

### **RECORD**

Defines a record or range of records to be printed.

Separate each record or range with blanks, commas, or both. A range of records is specified as two record numbers separated by a colon.



## Optional Print Attribute Panels—EXP Mode

This section shows examples of the optional reprint attribute panels.

```

CA View EXP ----- CA Deliver Reprint Attribute Panel -----
Command ==>

ID ---> IEBGENER
Job ---> IEBGENER          JOBID ---> JOB05778

*----- Primary -----*
| BANNER ==>                | BANNER ==>
| CLASS ==>                 | CLASS ==>
| DEST ==>                  | DEST ==>
| WRITER ==>                | WRITER ==>
|-----|
*-----*

Enter optional page/record range(s):
PAGE ==>
RECORD ==>

Press ENTER to confirm or enter END command to cancel

```

```

CA View EXP ----- CA Deliver Reprint Attribute Panel -----
Command ==>

ID ---> IEBGENER
Job ---> IEBGENER          JOBID ---> JOB05778

BANNER ==>
CLASS ==>
DEST ==>
WRITER ==>

*----- Alternate -----*
| BANNER ==>                |
| CLASS ==>                 |
| DEST ==>                  |
| WRITER ==>                |
|-----|
*-----*

Enter optional page/record range(s):
PAGE ==>
RECORD ==>

Press ENTER to confirm or enter END command to cancel

```

## Field Descriptions

This is a description of the fields in the optional CA Deliver Reprint Attributes Panel:

### **BANNER**

Defines the name of the model banner page to use to produce the beginning and ending banner pages for the report.

- If BANNER is not specified, the user's default banner page is used
- If BANNER is specified as \*, no banner pages are used.

### **CLASS**

Defines the SYSOUT class.

### **DEST**

Defines the printer destination.

The following values are valid:

- JES printer
- External writer
- CA Spool printers
  - CMA printer
  - *subsysid.dest*
- VTAM printer
- External Printer
- Printer synonym

See the section Identifying Printer Devices earlier in this chapter for explanations of each destination type.

### **WRITER**

Defines the external writer name.

If an '\*' is specified for the WRITER field, all WRITER specifications are nullified.

### **PAGE**

Defines a list of pages (or page ranges) that are to be printed.

Separate each page or range of pages in the list with blanks, commas, or both. A range of pages is specified as two pages separated by a colon.

### **RECORD**

Defines a record or range of records to be printed.

Separate each record or range with blanks, commas, or both. A range of records is specified as two record numbers separated by a colon.

## Print Output Parameters

The Print Attribute panel and the CA Deliver Reprint Attributes panel are displayed with default data in the fields.

Default data comes from the print attribute data that was part of the output when it was originally archived. You can delete or modify any of the data in these fields.

To display a complete list of print attributes, enter the O input command ( or OUT or OUTPUT) on the Print Attributes panel or the CA Deliver Reprint Attributes panel and press Enter. The Print Output Parameters panel displays.

```

CA View ALL ----- Print Output Parameters ----- Row 00001 of 00105
Command ==>                                           Scroll ==> PAGE

  ID    ---> SALESRPT
  Job   ---> SALESRPT      Jobid ---> JOB00144

Name      Value
-----
ADDRESS-1
ADDRESS-2
ADDRESS-3
ADDRESS-4
BUILDING
BURST      NO
CHARS-1
CHARS-2
CHARS-3
CHARS-4
CKPTLINE
CKPTPAGE
CKPTSEC
CLASS      3
COLORMAP
COMPACT
COMSETUP

```

The following print attributes can be changed as needed.

- Scroll through the list using the scroll command
- Use the LOCATE command to position the cursor at the targeted entry
- Enter the END command to use these print attributes
- Enter the CANCEL command to ignore any changes. When you exit the Print Attribute panel or the CA Deliver Reprint Attributes panel, a confirmation of the print request is displayed.

### ADDRESS-1 to ADDRESS-4

Deliver address lines for the SYSOUT.

You can specify one to four deliver address lines containing up to 60 text characters.

**BUILDING**

Defines the building identification for the SYSOUT.

You can specify up to 60 text characters for building identification.

**BURST**

Specifies whether output is to be burst by a 3800 printer.

Valid values are YES and NO.

**CHARS-1 to CHARS-4**

Defines the 3800-printer character arrangement table names.

**CKPTLINE**

Specifies the maximum lines in a logical page.

A range of 0 to 32767 can be specified.

**CKPTPAGE**

Defines the number of logical pages before JES checkpoints the data.

A range of 1 to 32767 can be specified.

**CKPTSEC**

Defines the number of sections before JES checkpoints the data.

A range of 1 to 32767 can be specified.

**CLASS**

Defines the SYSOUT class.

**COLORMAP**

Defines the color translation resource object.

**COMPACT**

Defines the compaction table to use to send SYSOUT to an SNA terminal.

**COMSETUP**

Defines the microfiche setup resource.

**CONTROL**

Specifies line spacing.

Valid values are:

**PROGRAM**

Indicates that each logical record contains a carriage control character.

**SINGLE**

Indicates that single spacing is to be used.

**DOUBLE**

Indicates that double spacing is to be used.

**TRIPLE**

Indicates that triple spacing is to be used.

**COPIES**

Defines the number of copies.

Valid values are 1 to 255.

**COPYG-1 to COPYG-8**

Defines the 3800-printer copy group values.

Valid values are 1 to 255.

**DATAACK**

Specifies how the printer errors are to be handled.

Valid values are:

**BLOCK**

Indicates that errors are not reported.

**UNBLOCK**

Indicates that errors are reported.

**BLKCHAR**

Indicates that print errors are blocked.

**BLKPOS**

Indicates that data errors are blocked.

**DEPT**

Defines the department identification for the SYSOUT.

You can specify up to 60 text characters for department identification.

**DEST**

Defines the printer destination.

The following values are valid:

- JES printer
- External writer
- CA Spool printers
  - CMA printer
  - *subsysid.dest*
- VTAM printer
- External Printer

- Printer synonym

See the section Identifying Printer Devices earlier in this chapter for explanations of each destination type.

**DPAGELBL**

Specifies whether the security label is to be output.

Valid values are YES and NO.

**DUPLEX**

Specifies whether the report is printed on one or both sides of the paper.

Valid values are:

**NO**

Prints on one side only.

**NORMAL**

Rotates the physical page about the Y axis; this permits binding to occur on the long side of the sheet.

**TUMBLE**

Rotates the physical page about the X axis; this permits binding to occur on the short side of the sheet.

**FCB**

Defines the name of the forms control image.

**FLASH**

Defines an optional forms flash overlay name for the 3800 printer.

**FLASH COUNT**

Defines an optional flash count for the 3800 printer.

Valid values are 1 to 255.

**FORM**

Defines the forms name.

**FORMDEF**

Defines the name of the form definition to be used to print the SYSOUT with the 3800 printing subsystem.

**FORMLEN**

Defines the length and unit of measurement of the form.

**FSSDATA**

Defines the Functional Subsystem data.

You can specify up to 127 characters for functional subsystem data.

**HOLD**

Specifies whether output is to be placed on a held queue.

Valid values are YES and NO.

**INTRAY**

Defines the printer input tray.

A range of 1 to 255 can be specified.

**IPDEST**

Defines the TCP/IP routing designation.

You can specify up to 124 characters of TCP/IP routing information.

**LINECT**

Defines the number of lines to print per page.

**MODIFY**

Defines the 3800 copy modification module name.

**MODIFY TRC**

Defines the 3800 copy modification module table reference character.

Valid values are 0 to 3.

**NAME**

Defines the name that is to be printed on output separator pages.

You can specify up to 60 text characters for the name.

**NOTIFY-1 to NOTIFY-4**

Specifies up to four print notification message destinations.

**OFFSETXB**

Specifies X offset of logical page origin for the back side of the paper.

**OFFSETXF**

Specifies X offset of logical page origin for the front side of the paper.

**OFFSETYB**

Specifies Y offset of logical page origin for the back side of the paper.

**OFFSETYF**

Specifies Y offset of logical page origin for the front side of the paper.

**OPTCDJ**

Specifies whether the SYSOUT records are to contain table reference characters.

Valid values are YES and NO.

**OUTBIN**

Defines the output bin ID.

**OUTDISP**

A range of 1 to 65535 can be specified.

**OUTDISPA**

Specifies the normal and abnormal output disposition.

Valid values are:

**HOLD**

Indicates that the SYSOUT is not printed until it is released.

**KEEP**

Indicates that the SYSOUT is printed but not immediately purged.

**LEAVE**

Indicates that the SYSOUT is not printed until it is released and not immediately purged once it is printed.

**PURGE**

Indicates that the SYSOUT is deleted and not printed.

**WRITE**

Indicates that the SYSOUT is printed and purged.

**OVERLAYB**

Specifies medium overlay for back side of paper.

**OVERLAYF**

Specifies medium overlay for front side of paper.

**PAGEDEF**

Defines the name of the page definition to be used to print the SYSOUT with the 3800 printing subsystem.

**Note:** You cannot use this field if you are printing with the P command.

**PIMSG**

Specifies whether messages from a functional subsystem should be printed.

Valid values are YES and NO.

**PIMSG COUNT**

Specifies the message threshold; this is the point at which the system will cancel printing.

A range of 1 to 999 can be specified.

**PORTNO**

Defines the TCP port number where FSS connects to the printer.



A range of 1 to 65535 can be specified.

**PRMODE**

Defines the process mode to be used to print the SYSOUT with the 3800 printing subsystem.

**PRERROR**

Defines the action to take when there is a print error.

Valid values are:

**DEFAULT**

Take a standard action when a terminating error occurs during printing.

**QUIT**

Release the SYSOUT when a terminating error occurs during printing.

**HOLD**

Place the SYSOUT in a held status when a terminating error occurs during printing.

**PRTOPTNS**

Defines the named entity of print options for FSS.

**PRTQUEUE**

Defines a target print queue for FSS.

You can specify up to 127 characters for print queue.

**PRTY**

Assigns a selection priority to the job.

Valid values are 0 to 255.

**RESFMT**

Defines the resolution that is used to format the print.

Valid values are:

**P240**

Indicates 240 pels per inch resolution.

**P300**

Indicates 300 pels per inch resolution.

**RETAINF**

Defines the failed transmission retain time.

Valid values are hhhh:mm:ss or FOREVER.

**RETAINS**

Defines the successful transmission retain time.

Valid values are hhhh:mm:ss or FOREVER.

**RETRYL**

Defines the maximum number of transmission retries.

**RETRYT**

Defines the length of time to wait between retries.

**ROOM**

Defines a room identification.

You can specify up to 60 text characters for room identification.

**SYSAREA**

Specifies whether the system should reserve a system area on each page of output.

Valid values are YES and NO.

**TITLE**

Defines a title identification.

You can specify up to 60 text characters for text identification.

**UCS**

Defines the name of the special character set.

The valid value is 1.

**USERDATA1 to USERDATA16**

Defines 1 to 16 user data lines that can contain up to 60 text characters for the SYSOUT.

**WRITER**

Defines the external writer name.

This attribute is omitted if an asterisk ("\*") is entered in this field.

## Reprinting Output Management Bundles

The Bundle Reprint Facility is available only in EXPO mode. This facility prints output that was bundled by CA Deliver and archived through CA View.

1. In the EXPO Primary Selection panel, do one of the following:
  - Enter *JB* on the command line, and then press Enter to display the Bundle Reprint Selection List.

```

CA View EXPO ----- Bundle Reprint Selection List -- Row 00001 of 00001
Command ==>                                         Scroll ==> PAGE

Sel Bundle ID          Description
=> *
   BUN1                CHECKING - MAINBLDG
   BUN2                CHECKING - STORAGE
   BUN3                CHECKING - OFFICE
   BUN4                CHECKING - WAREHOUSE
   BUN5                CHECKING - INVTRY
   BUN6                CHECKING - OUTBLDGS
***** BOTTOM OF DATA *****
    
```

- Enter *JB* and a specific bundle ID on the command line, and then press Enter to queue the bundle for printing.
2. In the Bundle Reprint Selection List, enter *S* in the Select column of the bundle you want to print, then press Enter to display the Bundle Reprint Attribute panel.

```

CA View EXPO ----- Bundle Reprint Attribute -----
Command ==>

Bundle ID   ---> DIANER
Description --->

Attributes:
BANNER ==> (           ,           ,           )
BDIST  ==>

Job Statement Information:
==> //DIANEBN JOB CLASS=A,MSGCLASS=Q
==>
==>
==>

The following attributes may be selected by entering the 1-character selection
code on the command line:
  C - List the contents of the bundle.
  S - Prepare the job to Reprint the bundle.
    
```

The bundle ID of the bundle you selected appears in the Bundle ID field.

3. Do the following in the Bundle Reprint Attribute panel:
  - In the BANNER field, do one of the following:

- Enter the CA Deliver bundle, DIST, and report ID that prints with the bundle
  - Enter an asterisk in one of the fields to suppress the printing of that banner page.
  - In the BDIST field, enter the CA Deliver bundle DIST ID for which the bundle is to be printed.
4. Do one of the following:
- To print the bundle that is indicated in the Bundle ID field, enter *S* on the command line then press Enter to queue the bundle for printing.
  - To check the contents of the bundle, enter *C* on the command line, then press Enter to display the Contents of Bundle panel.

```

CA View EXPO ----- Contents of Bundle ----- ROW 00001 OF 00003
Command ==>                                         Scroll ==> PAGE

Bundle ---> PAYROLL

Sel Dist ID / Report ID          Archival
Date      Time  Description
BJONES
PAYEE-R1          10/06/2013 12:07
PAYEE-R2          10/06/2013 12:07
***** BOTTOM OF DATA *****
    
```

All of the fields in this panel are informational. Reports in your selected bundle are displayed by Dist ID and include a short description, archival date, and archival time. The Report ID field displays the report id that was defined in CA Deliver. CA Deliver Arch ID report identifiers are not displayed by this panel.

5. In the Contents of Bundle panel, do the following:
- Validate the report IDs.
  - Enter *END* on the command line.
  - Press Enter to display the Bundle Reprint Attribute panel.
6. In the Bundle Reprint Attribute panel, enter *S* on the command line, then press Enter.
- The bundle is queued for printing.



# Chapter 7: Emailing Output

---

## How to Email Output

To email output, follow this process:

1. Review the preliminary considerations.
2. Perform the steps to email output.

### Preliminary Considerations

These considerations apply to archived output that you want to retrieve for emailing:

- You can email CA View or archived CA Deliver output in online mode, but not in batch.

To email the output in online mode, either use CA Spool to process the report or email the output to JES, using Infoprint Server.

For instructions to use CA Spool to process the report, including sample DEFNODE and NODE definitions, see the following section in the *CA Spool Customization Guide*: TCP/IP PrintDirect, Email Print Driver.

- You can email output in all of the CA View online modes: ALL, EXPO, EXP, SARO, SAR, and JOB.
- You can include the report in the email, either inline or as an attachment, in TXT, PDF,RTF, or HTML format.
- To configure the email process, administrators use the initialization parameters MAILDEST, MAILFROM, and MAILTO. For details about these parameters, see the *Reference Guide*.
- For all modes, you have immediate access to the output if it meets any of the following conditions:
  - Resides on disk
  - Resides on optical disk with page-level retrieval
  - Has been temporarily loaded to disk
  - Resides on tape and you are using EAS for tape and robotics

- For JOB mode, you have immediate access to the output if all of the reports associated with the job reside on the same tape and if you are using EAS.
- If your selected output resides only on tape and you are authorized for online tape mounts, the system operator is notified to mount the tape.

**Note:** Only TSO and ISPF/SPF online allow tape mounting. For all TSO users (both native TSO and ISPF/SPF), whether you are authorized for online tape mounts is determined by how your system administrator has set up your TSO ACCOUNT command.

- Your terminal remains locked until the tape has been mounted and your output has been copied to disk.
- If your selected output resides on optical disk with file-level retrieval, the output is loaded back to DASD.

**Note:** To disable all online tape mounts for CA View, specify the MOUNT=NO initialization parameter. For details about initialization parameters, see the *Reference Guide*.

### Email Output

To email output, follow these steps:

1. In the Sysout, Report, or Job Selection List, enter E in the Select column of the output you want to email and press enter to display the Email Attributes Panel.

Alternatively, enter E or EMAIL on the command line of any browse panel.

```
CA View ALL ----- Email Attribute Panel -----
Command ==>

ID    ---> SWILAROG
Job   ---> SWILAROG   Jobid ---> JOB05739

Email Attributes:
Send To  ==>
Send CC  ==>
Reply To ==>
Mail From ==>
Subject  ==>
Attachment ==>
Mail Dest ==>
Page     ==>
Record   ==>
Banner   ==> DEFAULT   Class ==> N
Email Message Text:
==>
==>
==>
==>
Press ENTER to confirm or enter END command to cancel
```



2. Verify or change the email attributes and press Enter to send the email.

### Field Descriptions

Field descriptions follow for the Email Attribute panel. Unless specified otherwise, each field includes one field for user input.

- ID: Sysout or Report ID (appears in all modes except JOB)
- Job: Job name
- Jobid: JES number of the job
- Send To: The email address to which to send the email
- Send CC: The email address to which to send a copy of the email
- Reply To: The email address to which replies to the original email are sent
- Mail From: The email address in the 'From:' email field.

The default is the email address of the user who originated the email.

If you are using XMS for online access, the default is the user ID of the XMS task.

If the CA View SARINIT MAILFROM parameter is set to YES, users can specify a custom value in this field. If this parameter is set to NO, the value of the field is predefined as "n/a" and is read-only for users.

**Note:** For details about the MAILFROM parameter, see the *Reference Guide*.

- Subject: The text in the email subject field  
60 characters maximum.
- Attachment: The file name and extension for the attached report

The default is *reportname.txt*, for example, report19.txt.

To include the report inline in the email, specify the extension as .msg, for example, report19.msg.

If the CA View SARINIT MAILTO parameter is set to ESF to use CA Spool to process the report, you can automatically convert the report from text format to PDF, HTML or RTF format by specifying the new format as the extension. For example, specify report19.pdf for PDF or report19.html for HTML.

If the CA View SARINIT MAILTO parameter is set to JES and the attachment field is filled in on the Email Attributes screen, the attachment name is passed from the OUTPUT statement MAILFILE parameter to Infoprint Server, which uses the MAILFILE parameter to specify the file name of the attachment.

60 characters maximum.

- Mail Dest: Sends the email to one of these destinations:
  - A JES destination. Specify the 1-8 character destination ID.
  - The default CA Spool system, which is specified in the CMASPOOL parameter of the SARINIT utility. Specify its 4- character subsystem ID.
  - An alternate CA Spool system. Specify it in this format: *subsysid.dest*.  
*subsysid* is the 4 character subsysid of the alternate CA Spool system.  
*dest* is a 1-8 character destination of this alternate CA Spool system.
- Page: A list of pages or ranges of pages to print  
Use blanks or commas (or both) to separate each page or range of pages.  
To specify a range of pages, separate the first and last page with a colon. For example, to print pages 3 through 6, specify 3:6.  
Number of Fields: 1 to 9  
**Note:** If you do not specify Page or Record, all of the output for the JOB is emailed.
- Record: A record or range of records to print  
Use blanks or commas (or both) to separate each record or range of records.  
To specify a range of records, separate the first and last record with a colon. For example, to print records 5 through 10, specify 5:10.  
Number of Fields: 1 to 9
- Banner: The model banner page to use for the beginning and ending banner pages for the report in the email attachment.  
If this field is empty, the user's default banner page is used.  
If you specify an asterisk (\*), no banner pages are used.
- Class: The SYSOUT class to which to direct the email
- Email Message Text: Text of the body of the email  
You can specify a custom value in this field *only* if the CA View SARINIT MAILTO parameter is set to ESF, which specifies that CA Spool processes the email. Otherwise, this field is predefined as "n/a" and is read-only for both administrators and users.  
If applicable, specify 1 to 4 lines, 60 characters each.  
Number of Fields: 1 to 4

### Example

The following example shows how to use the Email Attribute Panel. This example emails a copy of the report REPORT1 to the destination DEST1234, to the email recipient John.Doe@yourcompany.com.

```
CA View ALL ----- Email Attribute Panel -----
Command ==>

ID    ---> REPORT1
Job   ---> TESTJOB1   Jobid ---> JOB05343

Email Attributes:
Send To  ==> JohnDoe@yourcompany.com
Send CC  ==>
Reply To ==>
Mail From ==>
Subject  ==> Test subject
Attachment ==>
Mail Dest ==> DEST1234
Page     ==>
Record   ==>
Banner   ==> DEFAULT   Class ==> N
Email Message Text:
==> Hi John, here is your test email
==>
==>
==>
Press ENTER to confirm or enter END command to cancel
```



# Chapter 8: Creating Logical Views

---

This section compares the system's two views of SYSOUTs and reports, native and logical, and discusses how to customize the way CA View displays SYSOUT or reports using logical views.

This section contains the following topics:

[Native and Logical Views](#) (see page 253)

[Creating Logical View Definitions—Overview](#) (see page 258)

[Using the View Definition Panel to Create Logical Views](#) (see page 267)

[Specifying Primary Headings](#) (see page 277)

[Specifying Columns](#) (see page 280)

[Specifying Column Headings](#) (see page 285)

[Specifying and Accessing Page Indexes](#) (see page 289)

[Specifying Colors](#) (see page 311)

[Using VIEW COLS Mode to Create Logical Views](#) (see page 313)

[Determining Cursor Position—the WHERE Command](#) (see page 320)

## Native and Logical Views

Native views reflect the actual format of archived reports, while logical views are customized report displays. This section describes these two methods of online viewing and gives you examples of each.

### Native Views

A *native view* is the online display of the SYSOUT or report in the form in which it was archived. Each page of the native view contains:

- One or more title records
- One or more column heading records
- Data records
- Zero, one, or more footer records

The native view of a SYSOUT can have one or more pages of job information preceding the first page of data records.

### Native View: Example 1

The following illustration shows the top of the first page of data of a SYSOUT as displayed in the native view. Note the title and column heading records at the top of the data display area.

```

CA View Browse - SWILSON5 ---- Rec 0000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
.SARPAGE1
NAME          ACCOUNT NUMBER  REGION  DIVISION  MONTH TOTAL
-----
.ABERNATHY    XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ACME         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ADLER        XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ALLISON      XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.AXEL         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ALSTER       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ALSTON       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ATNE         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.BALICK       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.BARELL       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.BAROVELLI   XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.BASSE        XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.BASLICH      XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CANTRELL    XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CELESTE      XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CENNET       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CHASE        XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CHASIN       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CHINOIS      XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CLAPKIN      XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
    
```

## Native View: Example 2

The following illustration shows the same SYSOUT in the native view after scrolling down one page.

**Note:** The title and column heading records previously displayed at the top of the first page have scrolled off the top of the page.

```

CA View  Browse -- SWILSON5 --- Rec 0000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                                     Scroll ==> PAGE
***** TOP OF DATA *****
. CLAYTON          XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
. CORELLI         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
. DAYAN           XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
. DAYGLASS        XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
. DIETERE         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
. EDELMAN         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
. EDSON           XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
. FRANK           XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
. FOURIER         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
. GLASSMAN        XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
. GLABMAN         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
HEIDELBERG       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
HERBERT          XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
HEZZENFELD       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
INDIANER         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
NAME             ACCOUNT NUMBER  REGION  DIVISION  MONTH TOTAL
-----
.IJEAKA          XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.JACKSON         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.JAMA            XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.JASON           XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.KRAMAR          XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.KROMWELL        XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX

```

## Logical Views

*Logical views* allow you to customize the way CA View displays SYSOUT and reports without modifying the physical data.

Using logical views, you can do the following actions throughout a report and improve online readability:

- Manipulate the columns of a report
- Define column headings
- Assign colors to those columns or headings
- Alternate colors

Logical viewing also provides a basic level of security, because the system administrator can restrict users to certain pre-designated views.

## Types of Logical Views

The following table defines the types of logical views:

### **Public**

Applies to only one report or SYSOUT ID:

- Unrestricted access—view is accessible to all users
- Restricted access—view is accessible to specified users

### **Private**

Applies to only one report or SYSOUT ID:

- User creates a personal view
- One user cannot access another user's private view

Users can create a private view for their own use if the user is defined to the system as a nonrestricted user. Nonrestricted means that the user has access to the native view (the view that is not secured). Private views can only be created from the native view of a report.

### **Global**

Applies across many reports; based on a generic report or SYSOUT ID specification.

When the user creates a global view, the user specifies a generic report ID in the definition using a trailing asterisk (for example, PAY\*) to determine which reports are included in the view.

Only users with master authority specified by the DEF USER statement can create global logical views.

## Logical View Considerations

You can access up to 255 views using the *Vnnn* selection list command (see the section Accessing the View Definition Function from Browse later in this chapter). These views can be private, public, or global views.

Each logical view presentation can be browsed, printed, or distributed. Logical views cannot be stacked (that is, you cannot have a view on top of a view).

Indexing is only performed on public or global view definitions. If an index is defined to a private view, it must match an index definition for a global or public view.

To avoid overloading the system with an individual user's indexes, private logical views can only be used to create new page indexes if they match a public or global view index definition.



### What Appears in a Logical View?

A logical view is the modified online display of a SYSOUT or report in CA View; the data is not altered.

A logical view contains:

- An optional one-line heading that is independent of the data columns and does not scroll off the display during vertical scrolling
- One to six optional column heading lines that do not scroll off the display during vertical scrolling, but can change as the heading records on the pages within the SYSOUT change
- A continuous display of data that you can scroll

Optionally, a user can exclude specific columns, lines, or pages from the view. Users can also define columns for display and reorder columns on the display.

### Logical View: Example 1

The following illustration shows a logical view of the same SYSOUT shown in the section Native View: Example 1, earlier in this section. Compare this illustration with the previous one. Note in particular how the headings have been modified and how the columns of data are defined and reordered.

```

CA View Browse - SWILSON5 ---- Rec 0000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
NAME      MONTH TOTAL  ACCOUNT NUMBER  DIVISION
-----
ABERNATHY xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
ACME      xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
ADLER     xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
ALLISON   xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
AXEL      xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
ALSTER    xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
ALSTON    xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
ATNE      xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
BALICK    xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
BARELL    xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
BAROVELLI xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
BASSE     xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
BASLICH   xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
CANTRELL  xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
CELESTE   xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
CENNET    xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
CHINOIS   xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
CLAPKIN   xxxxxxxxxx  xxxxxxxxxxxxxx  xxxxxxxx
    
```

## Logical View: Example 2

The following illustration shows the same logical view of the SYSOUT after the user has scrolled the display vertically.

**Note:** Headings have not scrolled off the display and that the data flows continuously below the headings without the interruption of page headings and footers.

```

CA View Browse - SWILSON5 ---- Rec 0000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
NAME          MONTH TOTAL  ACCOUNT NUMBER  DIVISION
-----
CLAYTON       xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
CORELLI       xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
DAYAN         xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
DAYGLASS      xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
DIETERE       xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
EDELMAN       xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
EDSON         xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
FRANK         xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
FOURIER       xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
GLASSMAN      xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
GLABMAN       xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
HEIDELBERG    xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
HERBERT       xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
HEZZENFELD   xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
INDIANER      xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
IJEAKA       xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
JACKSON       xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
JAMA         xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
JASON        xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
KRAMAR       xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
KROMWELL     xxxxxxxxxx      xxxxxxxxxxxxxx  xxxxxxxx
    
```

## Creating Logical View Definitions—Overview

You can create a logical view definition in two ways:

- The first method, using the primary View Definition panel and its related panels, allows you to create a complete logical view definition.
 

The primary View Definition panel is accessed from either the primary CA View panel or from browse mode and is explained in the following section.
- The second method, VIEW COLS mode, uses a single panel. VIEW COLS mode allows less customization than the View Definition panel but is easier to use.
 

This method is only available from browse and is explained in the section Using VIEW COLS Mode to Create Logical Views.

## How to Create Logical Views Using the View Definition Panel

As a report user you can create logical views to customize the way CA View displays SYSOUT and reports without modifying the physical data.

Logical viewing also provides a basic level of security, because the report user can restrict users to certain pre designated views.

Using logical views, you can do the following actions throughout a report and can improve online readability:

- Manipulate the columns of a report
- Define column headings
- Assign colors to those columns or headings
- Alternate colors

A logical view is the modified online display of a SYSOUT or report in CA View.

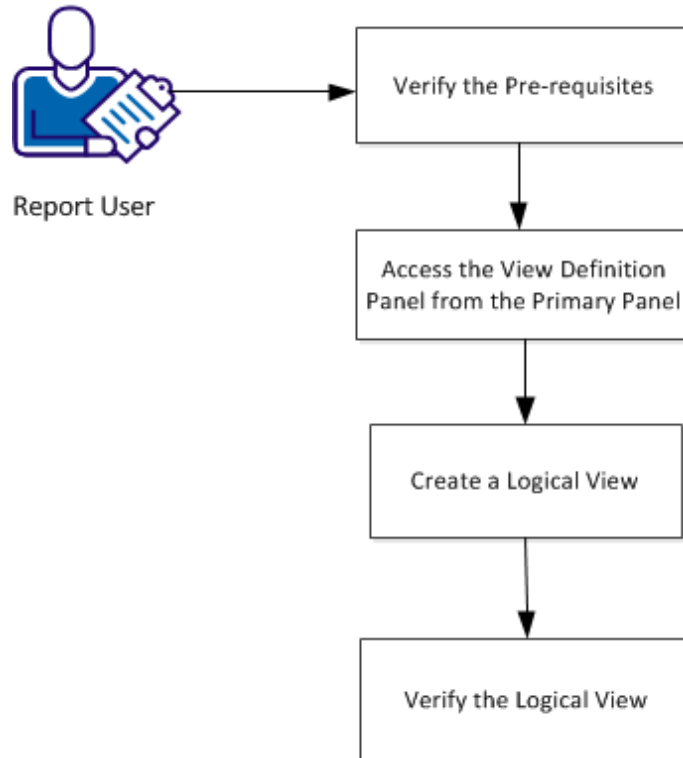
A logical view contains:

- An optional one-line heading that is independent of the data columns and does not scroll off the display during vertical scrolling
- One to six optional column heading lines that do not scroll off the display during vertical scrolling, but can change as the heading records on the pages within the SYSOUT change
- A continuous display of data that you can scroll

Optionally, a user can exclude specific columns, lines, or pages from the view. Users can also define columns for display and reorder columns on the display.

The following diagram describes how a report user creates a logical view using the view definition panel.

## How to Create Logical Views Using the View Definition Panel



**Follow these steps:**

[Verify the Pre-requisites](#) (see page 261)

[Access the View Definition Panel from the Primary Panel](#) (see page 261)

[Create a Logical View](#) (see page 262)

[Verify the Logical View](#) (see page 265)

## Verify the Pre-requisites

To access the view definition panel and create a customized logical view, you must have master authority.

To access the administrative facilities of the product such as the user mode, private report viewing setup, device definition, and global view definition, you must have a user ID with the master authority. This authority can be set in one of two places:

- The MASTER initialization parameter. For more information, see the chapter "Initialization Parameters" in the *Reference Guide*.
- The Master field in the Userid Definition panel. For more information, see the *User Guide*.

## Access the View Definition Panel from the Primary Panel

Using the primary View Definition panel and its related panels, you can create a complete logical view definition. You can define global views pertaining to many reports only by accessing the view definition from the primary CA View panel.

### Follow these steps:

1. Enter *DEF VIEW* on the command line of your primary Selection panel.

#### Example:

Command ==> DEF VIEW

2. Press Enter to display the View Selection List.

A list of all the defined public and global views is displayed from which you can either create a view or modify an existing view.

## Create a Logical View

You can customize the way CA View displays SYSOUT and reports without modifying the physical data.

The different types of logical views include:

- **Public:** Applies to only one report or SYSOUT ID:
  - Unrestricted access—view is accessible to all users
  - Restricted access—view is accessible to specified users
- **Private:** Applies to only one report or SYSOUT ID:
  - User creates a personal view
  - One user cannot access another user's private view

Users can create a private view for their own use if the user is defined to the system as a nonrestricted user. Nonrestricted means that the user has access to the native view (the view that is not secured). The Private views can only be created from the native view of a report.

- **Global:** Applies across many reports; based on a generic report or SYSOUT ID specification.

When the user creates a global view, the user specifies a generic report ID in the definition using a trailing asterisk (for example, PAY\*) to determine the reports that are included in the view.

Only users with master authority specified by the DEF USER specification can create global logical views.

### Follow these steps:

1. Do one of the following actions in the Primary list panel to display the View Definition panel to display the logical view you want:
  - Enter S in the Sel column and press Enter.
  - Enter S viewid on the command line.

where,

#### **Viewid**

Signifies the ID of the view you are creating.

2. Press Enter.

The View Definition panel is displayed where you can specify the new logical view criteria.

### For example:

The following illustrations, show how the logical view is defined to produce a customized view:

This is the Initial View Definition screen:

```

CA View ALL ----- View Definition -----
Command ==>

View ID      ==> REPORT1A
View Number  ==> 1           Filter Name ==>
                               Secured    ==>N (Y/N)

Description  ==> TEST LOGICAL VIEW DEFINITION

Display Attributes (Y/N):
Default View ==> N           Lock Left Column ==> N
Carriage Controls ==> Y

Data Extraction by Page:
Pages to Exclude ==>           (Pages are excluded from top of file )
Records to Exclude ==> 3       (Records are excluded from top of page)
Records to Display ==>         (Leave blank for entire page)

To select the following, enter the 1-character code on the command input line:
  H - Define primary heading           P - Define page indexing criteria
  C - Define column specifications     L - Define color specifications

Enter END command to reenter viewing of report.
    
```

This is the Initial Column Specification screen:

```

CA View ALL -----View Definition ----- Row 00001 of 00004
Command ==>                               Scroll ==> CSR

View ID --> REPORT1A

Default Column Heading Record Numbers and Coloring Information:
HED1 =>   HED2 =>   HED3 =>   HED4 =>   HED5 =>   HED6 =>
CLR1 =>   CLR2 =>   CLR3 =>   CLR4 =>   CLR5 =>   CLR6 =>
HLT1 =>   HLT2 =>   HLT3 =>   HLT4 =>   HLT5 =>   HLT6 =>

Column Specifications:
Sel Pos Len Hdg Clr Hlt Text
  1  13  YES
 59  15  YES
 19  18  YES
 47  12  YES
***** BOTTOM OF DATA *****
    
```

This is the Column Heading Specifications screen:

**Note:** The same specifications must be defined for all the four columns.

```
CA View ----- View Definition ----- Row 00001 of 00002
Command ==>                                     Scroll ==> CSR

View ID ---> REPORT1A

Column Heading Specifications:
Sel Rec Clr Hlt Text
  2
  3
***** BOTTOM OF DATA *****
```



## Verify the Logical View

### Native View:

The following illustration shows the top of the first page of data of a SYSOUT as displayed in the native view. Note the title and column heading records at the top of the data display area.

```

<productname> Browse - REPORT1A ---- Rec 0000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                                     Scroll ==> PAGE
***** TOP OF DATA *****
.SARPAGE1
NAME          ACCOUNT NUMBER    REGION    DIVISION    MONTH TOTAL
-----
.ABERNATHY    XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ACME         XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ADLER        XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ALLISON      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.AXEL         XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ALSTER       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ALSTON       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ATNE         XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BALICK       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BARELL       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BAROVELLI    XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BASSE        XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BASLICH      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CANTRELL     XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CELESTE      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CENNET       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CHASE        XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CHASIN       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CHINOIS      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CLAPKIN      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
    
```

After you create a logical view, you can view the report to verify that the desired customized view is displayed.

### Example:

The following illustration shows the SYSOUT in the native view after scrolling down one page.

**Note:** The title and column heading records previously displayed at the top of the first page have scrolled off the top of the page.

```

<productname> Browse - REPORT1A --- Rec 000000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
. CLAYTON          XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
. CORELLI         XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
. DAYAN           XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
. DAYGLASS        XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
. DIETERE         XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
. EDELMAN         XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
. EDSON           XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
. FRANK           XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
. FOURIER         XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
. GLASSMAN        XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
. GLABMAN         XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
HEIDELBERG       XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
HERBERT          XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
HEZZENFELD       XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
INDIANER         XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
NAME             ACCOUNT NUMBER REGION DIVISION MONTH TOTAL
-----
. IJEAKA          XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
JACKSON          XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
JAMA             XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
JASON            XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
KRAMAR           XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
KROMWELL         XXXXXXXXXXXXXXXX XXXXXX XXXXXXXX XXXXXXXXXXXX
    
```

The following illustration shows the logical view of the same SYSOUT after the user has scrolled the display vertically.

**Note:** If you compare this illustration with the previous one the headings have not scrolled off the display and the data flows continuously below the headings without the interruption of page headings and footers. Also note how the headings have been modified and how the columns of data are defined and reordered.

```

<productname> Browse - REPORT1A ---- Rec 000000000 Pg 0000001.001 Lock 00 Col 001
080
Command ==> Scroll ==> PAGE
***** TOP OF DATA *****
NAME          MONTH TOTAL  ACCOUNT NUMBER  DIVISION
-----
CLAYTON       XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
CORELLI       XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
DAYAN         XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
DAYGLASS      XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
DIETERE       XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
EDELMAN       XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
EDSON         XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
FRANK         XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
FOURIER       XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
GLASSMAN      XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
GLABMAN       XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
HEIDELBERG    XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
HERBERT       XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
HEZZENFELD    XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
INDIANER      XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
IJEAKA        XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
JACKSON       XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
JAMA          XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
JASON         XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
KRAMAR        XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX
KROMWELL      XXXXXXXXXX  XXXXXXXXXXXXXXX XXXXXXXX

```

## Using the View Definition Panel to Create Logical Views

Use the primary View Definition panel to create the basic logical view definition and to access the following related panels:

- Primary Heading Specifications panel where you define page headings for the logical view.
- Column Specifications panel where you define the data columns for the logical view.
- Column Headings Specifications panel where you define the headings for the columns in the logical view.
- Page Indexing Criteria panel where you specify page indexing criteria that select pages for the view based on the indexing criteria you define.

You can access the primary View Definition panel from the Primary Selection panel, from other panels, or from browse mode. You can define global views pertaining to many reports *only* by accessing the view definition from the primary CA View panel.

## Accessing the View Definition Panel from the Primary Panel

If you have master authority, you can use the `DEF VIEW` command from the Primary Selection panel. This method allows you to define global views pertaining to many `SYSOUTs` or reports, and public views.

When a user selects a report with the `Vnnn` line command, CA View uses private view `nnn`, if one is defined; otherwise, CA View uses public view `Vnnn`, if that view is defined. If private view `nnn` or public view `nnn` are not defined, the most specific global view `nnn` is used. The sequence of view selection is called the *view hierarchy*.

### Modifying an Existing View

1. In the Primary Selection Panel, enter `DEF VIEW` to display a list of all the defined public and global views.

Do one of the following actions in the list panel to display the View Definition panel for the view you want to modify:

- Enter `S` in the Sel column and press Enter.
- Enter `S viewid` on the command line (where `viewid` is the ID of an existing view) and press Enter.

### Creating a New View

1. In the Primary Selection Panel, enter `DEF VIEW` to display a list of all the defined public and global views.

Enter `S viewid` on the command line of the list panel (where `viewid` is the ID of the view you are creating), then press Enter to display the View Definition panel for the new view.

### Deleting a View

1. In the Primary Selection Panel, enter `DEF VIEW` to display a list of all the defined public and global views.

Enter `D` in the Sel column of the view you want to delete and press Enter to display the Delete Confirmation Panel.

**Note:** You cannot delete a view from browse mode.

## Accessing the View Definition Panel from a Panel Other Than the Primary Panel

Enter `END` on the command line of the current panel and press Enter.

## Accessing the View Definition Panel from Browse

The procedure you use to access the View Definition panel varies depending on whether you are modifying an existing view or creating a new one. Private views and public views can be defined from browse.

### Modifying an Existing View

1. In the SYSOUT or Report Selection List, enter *Vnnn* in the Sel column of the desired SYSOUT or report, where *nnn* is the number of the view you want to modify.  
The maximum number is 255.
2. Press Enter to display the browse panel with definition *nnn* of the SYSOUT or report.
3. On the command line of the browse panel, enter *VIEW* and press Enter to display the primary View Definition panel.

### Creating a New View for Output with No Existing View Definitions

1. In the SYSOUT or Report Selection List, enter *S* in the Sel column of the desired SYSOUT or report.
2. Press Enter to display the browse panel with the native view of the SYSOUT or report.
3. On the command line of the browse panel, enter *VIEW* and press Enter to display the primary View Definition panel.

### Creating a New View for Output with Existing View Definitions

#### Method 1

1. Enter *V∅* in the Sel column of the desired SYSOUT or report to select the native view.
2. Press Enter to display the browse panel with the native view of the SYSOUT or report.
3. On the command line of the browse panel, enter *VIEW* and press Enter to display the primary View Definition panel.

#### Method 2

1. Enter *S* in the Sel column of the desired SYSOUT or report.
2. Press Enter to display the View Selection panel.
3. Enter *S* next to the desired Native Browse entry, and then press Enter.  
The native view of the SYSOUT is displayed.
4. On the command line of the browse panel, enter *VIEW* and press Enter to display the primary View Definition panel.

## The Primary View Definition Panel

The primary View Definition panel allows you to access all of the functions used to create logical views of SYSOUT and reports in CA View. This section gives you an overview of this panel and explains its functions.

Here is an illustration of the primary View Definition panel:

```
CA View ALL ----- View Definition -----
Command ==>

View ID      ==> SWILSON5
View Number  ==>
Private      ==> _ (Y/N)      Filter Name ==>
Secured      ==> _ (Y/N)

Description  ==>

Display Attributes (Y/N):
  Default View    ==> N      Lock Left Column ==> N
  Carriage Controls ==> Y

Data Extraction by Page:
  Pages to Exclude ==>      (Pages are excluded from top of file )
  Records to Exclude ==>    (Records are excluded from top of page)
  Records to Display ==>    (Leave blank for entire page)

To select the following, enter the 1-character code on the command input line:
  H - Define primary heading      P - Define page indexing criteria
  C - Define column specifications L - Define color specifications

Enter END command to reenter viewing of report.
```

The following sections describe the display and input fields of the primary View Definition panel. These descriptions are divided into sections that follow the layout of the menu.

## Command Line

The following command descriptions are available on this panel.

Enter the command on the command line (with any parameters) and press Enter.

### **DELETE**

Deletes the current view of the SYSOUT.

### **COPY**

Copies view definition data from another logical view. The COPY command can be used to replace the data on the current panel or the entire view definition data. The COPY command does not change the view identifier or view number. The syntax is as follows:

Command ===> COPY view-id view-number [ALL]

where

*view-id* and *view-number* parameters identify the name and number of the logical view that is copied. The ALL parameter indicates that the entire view definition is replaced with the data from the copied logical view. If omitted, only the data from the current panel is replaced. The ALL parameter is only valid on the primary View Definition panel.

### **REPLACE**

Replaces a previously defined logical view with the current logical view.

There are two ways to enter this command:

- When entered without a view number, the view you are currently creating replaces the view that is listed in the VIEW NUMBER field:

Command ===> REPLACE

- When entered with a view number, the view you are currently creating replaces the view with the number you specify:

Command ===> REPLACE n

In the following example, the view you are currently creating replaces view number 6.

Command ===> REPLACE 6

### **SELECT n**

Displays a previously defined logical view, where n is the number of the view you want to display.

To retrieve view n of a SYSOUT other than the one currently displayed or to retrieve a global view, use the sysout-id parameter as follows:

Command ===> SELECT n sysout-id

where sysout-id is a full name or the name of a global view ending in an asterisk.

If private view n exists, it is retrieved; otherwise, if public view n exists, it is retrieved.

**Note:** If a global view is retrieved, it can only be saved as a private or public view if you enter the view definition from browse.

### SAVE

Saves the logical view you are currently creating.

**Important!** We recommend that you periodically save your view as you are creating it. If you exit the SYSOUT or report without saving the definition, it is deleted.

You can enter this command in two ways.

- When entered without a view number, CA View saves the definition with the view number displayed in the View Number field:

Command ==> SAVE

- When entered with a view number, CA View saves the view with the number specified in the command. For example:

Command ==> SAVE 5

Use the SAVE command with a view number to save a view definition for the first time or to assign a new number to an existing view you are modifying.

**Note:** If you are assigning a new number to an existing view, you cannot use a number already assigned.

In addition to the primary commands, you can access the other panels in the View Definition series: enter one of the following options on the command line and press Enter:

### H

Displays the panel on which you can define the primary heading.

### C

Displays the panel on which you can define the column specifications.

### P

Displays the panel on which you can define page indexing criteria.

### L

Displays the panel on which you can define color specification criteria for the lines of the report.

You can also specify alternating color or highlighting every n lines to make the report more easily readable.



## Identification Fields

The following table lists the fields on the primary View Definition panel used to identify both the SYSOUT (or report) for which you are creating a logical view, and the view itself:

### View Number

Displays the number of the logical view that you are currently browsing.

If you are creating a new view from the native view, this field is blank until you save the view and assign it a number.

### View ID

Displays one of the following identifiers:

- The ID of the SYSOUT or report for which you are currently creating a view
- A generic global name

### Private

Specifies whether the view is private.

Valid codes are:

**Y**

Indicates that this view is currently only for private use

**N**

Allows others to use the view (global views cannot be private)

**Note:** Because global views cannot be private, this field only appears on View Definition panels accessed from browse.

### Filter Name

Displays the name of the filter that is automatically invoked when this view is used.

A filter name is only valid for public or global views (not private).

### Secured

Indicates whether the view is secured:

**Y**

Indicates that this is a secured view and requires clearance to access, such as provided from CA Deliver

**N**

Indicates that this is an unsecured view which anyone can access

If the user is defined to have access to all views, the user also has access to those views not defined as secured.

**Description**

Describes the view you are creating.

This description appears on the View Selection Menu and can be a maximum of 40 characters.

## Display Attributes Fields

The following table lists and describes the fields you use to control the display of the logical view you are creating:

### Default View

Indicates whether this is the default view

Valid values are:

**Y**

Makes this view the default.

This view is displayed when you select this SYSOUT or report for browsing using the S selection code on the SYSOUT or Report Selection List. If there are multiple default views, the first view for which you have authorized access is the one CA View displays for browsing.

**N**

Indicates that this is not a default view.

### Lock Left Column

Locks the leftmost column.

Valid values are:

**Y**

Prevents the leftmost column of data from scrolling off the screen during horizontal scrolling.

For this option to be effective, first define the left column .

**Note:** For more information, see the section Specifying Columns or the section Using VIEW COLS Mode to Create Logical Views.

**N**

Allows the left column to scroll off the screen.

### Carriage Controls

Controls carriage control display.

Valid values are:

**N**

Removes the carriage control characters from the display.

**Y**

Displays the carriage control characters.

## Data Extraction by Page Fields

The following table lists and describes the fields that are used to extract data from the pages of the SYSOUT or report for which you are creating the logical view:

### Pages to Exclude

Specifies the number of pages you want to exclude from the beginning of the SYSOUT

This is useful for excluding JCL listings from the logical view you are creating. This option does not delete the pages from the SYSOUT, only from the view.

### Records to Exclude

Specifies the number of records you want to exclude from the beginning of each page of the view you are creating.

This can include heading records that you are replacing with your own custom headings. The records are not deleted from the SYSOUT, only from the view.

**Note:** This option specifies the number of *records*, not necessarily the number of lines. Carriage control is not taken into account.

### Records to Display

Specifies the number of records to display on each page of the logical view.

This is useful if you want to exclude footer records from the logical view you are creating. Records that you have excluded from the beginning of the page with the RECORDS TO EXCLUDE option are not to be included in this number.

**Note:** This is the number of *records*, not the number of lines. Carriage control is not taken into account.

## Primary View Definition Example

The following illustration shows the primary View Definition panel for a sample report:

```

CA View ALL ----- View Definition -----
Command ==>

View ID      ==> SWILSON5
View Number  ==> 1
Private      ==> _ (Y/N)
Filter Name  ==>
Secured      ==> _ (Y/N)

Description  ==>

Display Attributes:
  Default View ==> NO
  Carriage Controls ==> NO
  Lock Left Column ==> YES

Data Extraction by Page:
  Pages to Exclude ==> 1 (Pages are excluded from top of file )
  Records to Exclude ==> 7 (Records are excluded from top of page)
  Records to Display ==> (Leave blank for entire page)

To select the following, enter the 1-character code on the command input line:
  H - Define primary heading      P - Define page indexing criteria
  C - Define column specifications L - Define color specifications

Enter END command to reenter viewing of report.

```

The values in the fields indicate that:

- This is not a default view.
- The leftmost column is locked.
- Carriage controls are not displayed.
- Page one of the report is excluded (because the first page was a title page).
- The first seven records from the top of each page are excluded (because these records contain the standard headings, and we create our own).

## Specifying Primary Headings

The Primary Heading Specifications panel of the View Definition series allows you to specify the heading that appears at the top of each page of the SYSOUT or report.

The heading can be composed of data extracted from the SYSOUT or report for which you are creating the logical view definition, text, or both that you supply. If you use data extracted from the SYSOUT page, the primary heading changes from page - to - page to reflect the data in the selected record on each page.

## Accessing the Primary Heading Specifications Panel

On the command line of the primary View Definition panel, enter *H* (Define Primary Heading) and press Enter.

## The Primary Heading Specifications Panel

Here is an illustration of the Primary Heading Specifications panel:

```
CA View ALL ----- View Definition ----- Row 00001 of 00001
Command ==>                                     Scroll ==> PAGE

View ID ---> SWILSON5

Scroll Heading ==> NO   (Specify YES or NO)

Primary Heading Specifications:
Sel Rec Pos Len Clr Hlt Text

***** BOTTOM OF DATA *****
```

The following tables describe the input fields of the Primary Heading Specifications panel. The tables follow the order in which the fields appear in the panel.

### General Input Fields

The following table defines general input fields:

**Command**

Defines system-wide commands (see the Commands section in the chapter "Introduction").

**Scroll**

Valid values are:

**Heading**

**NO**

Prevents the primary heading from scrolling left to right

**YES**

Allows the primary heading to scroll right to left

**Sel**

Defines any of the system-wide selection codes for manipulating data: inserting, deleting, repeating, copying, and moving.

## Fields to Extract Text

Use the following fields to extract text from the data records of the SYSOUT:

**Rec**

Specifies the number of the record on the logical page from which you want to extract data for the primary heading.

**Pos**

Specifies the starting column number of the data you want to extract for the primary heading.

Position 1 is the column following the carriage control. The carriage control character itself cannot be included in the selection.

**Len**

Specifies the length of the data to be extracted for the primary heading, starting from the character specified in the Pos field.

## A Field to Define Your Own Text

Use the following field to supply your own text for the primary heading:

**Clr**

Specifies a color to use (blue, red, pink, green, turquoise, yellow, white).

**Hlt**

Specifies a type of highlighting to use.

Values are bold (B), reverse video (R), or underscore (U).

**Text**

Specifies text for the primary heading.

The text is enclosed in single quotes.

**Note:** If you want to include blank spaces, supply the quotes; otherwise, embedded blank spaces are deleted.

## Primary Heading Specifications Example

Here is an example of the Primary Heading Specifications panel for the test view presented in the previous example. The data displayed in these fields changes as the data in the specified position on the SYSOUT pages changes. To separate the fields in the heading, insert vertical bars with several blank spaces on either side.

```
CA View ALL ----- View Definition ----- Row 00001 of 00005
Command ==>                                     Scroll ==> PAGE

View ID ---> SWILSON5

Scroll Heading ==> NO (Specify YES or NO)

Primary Heading Specifications:
Sel Rec Pos Len Clr Hlt Text
  4   7  24   R   B   ' | '
    4  35  27   W   U   ' | '
    4  96  26   B   R   ' | '
***** BOTTOM OF DATA *****
```

The values in the fields indicate that:

- This heading does not scroll off the page as you scroll left to right.
- Although the primary heading has been defined using five lines on the specifications panel, all five lines are displayed in the view as one continuous line.
- Lines two and three are used to insert vertical bars between the pieces of data selected from record four of the SYSOUT.

The heading is displayed as shown in the following logical view illustration:

```
CA View Browse - SWILSON5 ---- Rec 0000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                                     Scroll ==> PAGE
NAME          | MONTH TOTAL | ACCOUNT NUMBER | DIVISION
```

The data extracted from the SYSOUT by the specifications in lines one, three, and five changes as the data on the pages in that position changes. That is, with this heading, you can keep track of the month total, account number, and division as you scroll through the SYSOUT.

## Specifying Columns

The Column Specifications panel of the View Definition series is used to define the columns of data for the logical view definition that you are creating. Using this panel, you can control the width and order of the columns. You can also specify up to six default header lines that are displayed above each column of data you define.



## Accessing the Column Specifications Panel

Enter **C** (Define Column Specifications) on the command line of the primary View Definition panel and press Enter.

## The Column Specifications Panel

Here is an illustration of the Primary Column Specifications panel.

```

CA View ALL ----- View Definition ----- Row 00001 of 00001
Command ==>                                         Scroll ==> PAGE

View ID --> SWILSON5

Default Column Heading Record Numbers and Coloring Information:
  HED1 =>   HED2 =>   HED3 =>   HED4 =>   HED5 =>   HED6 =>
  CLR1 =>   CLR2 =>   CLR3 =>   CLR4 =>   CLR5 =>   CLR6 =>
  HLT1 =>   HLT2 =>   HLT3 =>   HLT4 =>   HLT5 =>   HLT6 =>

Column Specifications:
Sel Pos Len Hdg Clr Hlt Text

***** BOTTOM OF DATA *****

```

## Field Descriptions

The following table describes the display and input fields of the Column Specifications panel. These descriptions are divided into sections that follow the layout of the panel.

### **Command**

Defines system-wide commands.

You can also enter the COPY command, which copies the column specifications from the logical view of another SYSOUT or report.

Include the n parameter to indicate which view number to copy, and the sysout-id parameter to indicate the SYSOUT from which to copy the view.

You can enter a Report ID in place of the SYSOUT ID. This command is entered in the following format:

Command ==> copy n sysout-id

### **View ID**

Displays the ID of the logical view.

Default Column Heading Record Numbers and Coloring Information

Represents one of the six lines (labeled HED1 - HED6) in the default column headings.

In each field you can enter the number of a record from the SYSOUT or report that you want to use as a heading for the logical view you are creating. Record numbers you specify here are relative to the beginning of the logical page. If you leave one of these fields blank, a blank heading line is inserted.

For each heading, you can also assign a color (CLR1 - CLR6) and highlights attribute (HLT1 - HLT6). See Clr and Hlt fields later in this table, for possible color and highlight settings, respectively.

### **Sel**

Defines system-wide selection codes for manipulating data: inserting, deleting, repeating, copying, and moving.

You can also enter the H selection code, which displays the Column Heading Specifications panel on which you can define custom headings for the column you are defining on that line.

### **Pos**

Specifies the column number in which the data that you want to extract for a column begins.

Position 1 is the column following the carriage control. The carriage control character itself cannot be included in the selection.

### **Len**

Specifies the length of the data column that you include in this logical view beginning with the character specified in the Pos field

**Hdg**

Displays one of the options:

**YES**

If you created a custom heading for the column defined on this line

**Blank**

If you did not create a custom heading

**Clr**

Specifies the color (blue, red, pink, green, turquoise, yellow, white).

**Hlt**

Specifies the type of highlighting.

Values are bold (B), reverse video (R), or underscore (U).

**Text**

Specifies a column of constant text in this field.

The text you enter appears in the specified column on every line of the logical view of the SYSOUT or report. The text is automatically enclosed in single quotes (if you do not enter them).

**Note:** If you want to include blank spaces, either as a column, or before or after text you have specified, enclose the text that contains the blanks with single quotes; otherwise, the blank spaces are deleted.

## Column Specifications Example

Here is an example of the Column Specifications panel for the test view presented in the previous examples:

```

CA View ALL -----View Definition ----- Row 00001 of 00005
Command ==>                                     Scroll ==> PAGE

View ID --> SWILSON5

Default Column Heading Record Numbers and Coloring Information:
  HED1 =>      HED2 => 4    HED3 => 5    HED4 => 6    HED5 => 7    HED6 => 8
  CLR1 =>      CLR2 =>      CLR3 =>      CLR4 =>      CLR5 =>      CLR6 =>
  HLT1 =>      HLT2 =>      HLT3 =>      HLT4 =>      HLT5 =>      HLT6 =>

Column Specifications:
Sel Pos Len Hdg Clr Hlt Text
  1   18
      23  21
      73  23
***** BOTTOM OF DATA *****

```

**Note:**

- The H1 field was left blank to force a blank heading line.
- The second and fourth lines in the column specifications insert columns of blanks. These are useful for making the logical view easier to read by separating the columns of data with empty space.
- You can rearrange the columns by changing the order in which they were specified. The first column listed is the first column that is displayed.

The following illustration shows how CA View displays the SYSOUT using the column definition created for the example.

```

CA View  Browse - SWILSON5  -----  Rec 0000000  Pg 0000001.001  Lock 00  Col 001 080
Command ==>                                     SCROLL ==> PAGE
***** TOP OF DATA *****
NAME          MONTH TOTAL  ACCOUNT NUMBER          DIVISION
-----
ABERNATHY     xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
ACME          xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
ADLER         xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
ALLISON       xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
AXEL          xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
ALSTER        xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
ALSTON        xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
ATNE          xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
BALICK        xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
BARELL        xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
BAROVELLI     xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
BASSE         xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
BASLICH       xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
CANTRELL      xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
CELESTE       xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
CENNET        xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
CHASE         xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
CHASIN        xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
CHINOIS       xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx
CLAPKIN       xxxxxxxxxx  xxxxxxxxxxxxxxxx       xxxxxxxx

```

Compare this with the native view of the SYSOUT shown in the section Native View: Example 1, earlier in this chapter.

**Note:** Because this view uses custom headings, the default headings specified on the Column Specifications panel have no effect.

## Specifying Column Headings

The Column Heading Specifications panel is used to define the headings that you want to appear over the columns of a SYSOUT or report. You can define up to six lines of column headings for each column within a view definition. Each line in a column heading can consist of records extracted from the SYSOUT or report, text, or both that you supply.

The following section provides an overview of this panel and its functions.

### Accessing the Column Heading Specifications Panel

Enter *H* in the Sel column of the Primary Column Specifications panel to the left of the column for which you are defining headings and press Enter.

## The Column Heading Specifications Panel

Here is an illustration of the Column Heading Specifications panel:

```
CA View ALL ----- View Definition ----- Row 00001 of 00001
Command ==>                               Scroll ==> PAGE

View ID ---> SWILSON5

Column Heading Specifications:
Sel Rec Clr Hlt Text
***** BOTTOM OF DATA *****
```

## Field Descriptions

The following table describes the display and input fields of the Column Heading Specifications panel. These descriptions are divided into sections that correspond to the layout of the panel.

**Command**

Defines system-wide commands.

**View ID**

Displays the ID of the logical view.

**Sel**

Defines system-wide selection codes for manipulating data: inserting, deleting, repeating, copying, and moving.

**Rec**

Specifies the number of the record on the logical page from which you want to extract data for the column heading.

The data you extract from this record starts in the same position and continues for the length specified in the column specifications for this column.

**Clr**

Specifies a color to use (blue, red, pink, green, turquoise, yellow, white).

**Hlt**

Specifies a type of highlighting to use.

Values are bold (B), reverse video (R), or underscore (U).

**Text**

Specifies text for the column heading.

The text is enclosed in single quotes (if you do not supply them).

**Note:** If you want to include blank spaces, either as a column, heading or preceding or following other text, enclose the text with blanks in single quotes; otherwise, the blank spaces are deleted.

To include a blank line within a column heading, you must have at least one blank space enclosed in quotes in the Text field for that line of the heading.





## Specifying and Accessing Page Indexes

CA View can create a multi level index of pages within a SYSOUT or report. For example, you can specify a field that appears on every page of a report and this could be the number or name of a division in your organization. This page indexing information becomes a part of the logical view definition. When you archive copies of this SYSOUT or report, CA View examines each page for these indexing criteria, and creates an additional selection list, showing each value that has appeared in this indexing field. You then have the option of selecting the entire report or SYSOUT for viewing, or selecting only the pages that contain any one of the given index fields.

To avoid overloading the system with individual user indexes, private logical views can only be used to create new page indexes if they match a public or global view index definition.

This section provides an overview of the panels used to specify the indexing criteria, and the panels through which you select SYSOUTs or reports that have page indexing as part of their view definitions.

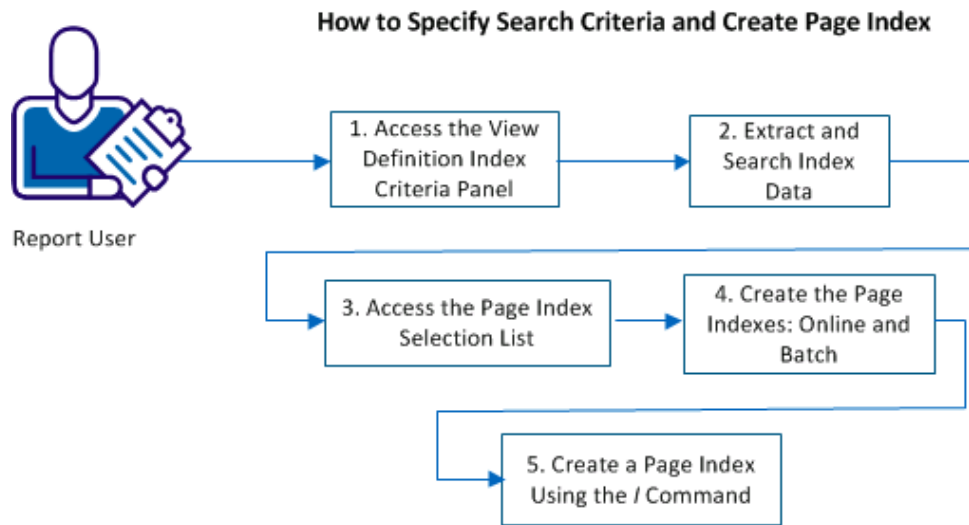
Page indexing criteria for private views are not examined during the archival process. Page indexes are built using all view numbers for public and global view definitions only. Therefore, if you are defining page indexing criteria for a private view, it must match page indexing criteria for a public or global view. For example, if public view 1 exists for a given report ID, no global view 1s are used. If public view 1 does not exist, only the most specific global view 1 is used for building the page index for view number 1. This applies for all view numbers.

## How to Specify Search Criteria and Create Page Index

In CA View, you can create a multi-level index of pages within a SYSOUT or report, which becomes a part of the logical view definition. When you archive copies of this SYSOUT or report, CA View examines each page for these indexing criteria, and creates an additional selection list, showing each value that has appeared in this indexing field. You can select the entire report or SYSOUT for viewing, or select only the pages that contain any one of the given index fields.

The following graphic shows how a report user can specify search to locate and create page indexes.

**Note:** The role *Report User* also includes and denotes the roles of System Administrator or End User.



**Follow these steps:**

1. [Access the View Definition Index Criteria Panel](#) (see page 291)
2. [Extract and Search Index Data](#) (see page 292)
3. [Access the Page Index Selection List](#) (see page 294)
4. [Create the Page Indexes: Online and Batch](#) (see page 294)
5. [Create a Page Index Using the I Command](#) (see page 295)

## Access the View Definition Index Criteria Panel

You can access the View Definition Index Criteria panel to specify extract and search criteria for index data.

### Follow these steps:

1. Access the View Definition panel as follows:
  - a. Enter *DEF VIEW* on the command line of your primary Selection panel and press Enter.

The View Selection List panel displays.

#### Example:

Command ==> DEF VIEW

Press Enter to display the View Selection List.

- b. Access the logical view definition to modify or create a view as follows.
      - Enter *S* in the Sel column and press Enter.  
You can now modify an existing view.
      - Enter *S viewid* on the command line of the list panel (where *viewid* is the ID of the view you are creating), and press Enter.

The View Definition panel for the new view displays.

**Note:** To display the View Definition panel, you can also go to the sysout selection list, make your selection from the View Selection List, press Enter, and type VIEW on the command line.

2. Enter *P* (Define Page Indexing Criteria) on the command line of the View Definition panel.
        3. Press Enter.

The View Definition Index Criteria panel displays. You can now specify Search or Extraction specifications.

### More information:

[Specify Search Criteria](#) (see page 293)

[Specify Extraction Criteria](#) (see page 292)

## Extract Index Data

The View Definition Index Criteria panel defines the methods for extracting index data from a report. The panel contains the following options:

- Extraction specifications, which define the location and length of the index data.
- Search specifications, which enable you to locate index data and to qualify pages for index selection.

The extraction and search specifications are defined by the entries within the table.

### Follow these steps:

1. Use the scroll command to scroll the table entries up and down, if they are available.

You can now create entries.

2. Overtyping the entries in the table.

The entries are modified.

3. Use the selection codes for inserting, deleting, repeating, copying, and moving entries.

Index data can be obtained from a fixed or floating location on a page. A maximum of eight locations can be extracted from a page. If the location of the index data varies from page to page or multiple occurrences of the index data are contained within a page, search specifications can be used to determine the location of that index data.

## Specify Extraction Criteria

The extraction specifications of the Page Indexing Criteria define the location and length at which to extract index data from a report page. You can extract a maximum of eight locations from a page. The maximum combined length is 252 bytes. You can specify an index name for each location to uniquely identify the contents of the data.

An index can also be the composite of multiple locations. When you define a composite index, specify the index name for the first location and leave it blank for the remaining locations. Cross report indexes require an index name.

Use the WHERE command to determine the location of the cursor position in the SYSOUT or report. This command is available only in the native browse mode. When you invoke the WHERE command, a message displays the line and column number of the cursor.

For example, type WHERE on the command line, place your cursor on the text criteria in the report, and press Enter. A message similar to the following one appears in the top right-hand corner of the panel:

```
LINE=00001 POS=00028
```

You can access the View Definition Index Criteria panel to specify extraction criteria for index data.

**Follow these steps:**

1. [Access the View Definition Index Criteria Panel](#) (see page 291) and complete the fields, as follows:
  - Specify the location and length of the index data on the page being searched.
  - Specify extraction criteria for indexing.

## Specify Search Criteria

The search specifications of the Page Indexing Criteria perform the following two functions:

- Qualify pages for indexing.
- Locate information that can be indexed.

Search specifications identify a text string that is to be found within a report page. The search can be performed on specific lines and columns or relative lines and columns. If the search text for specific lines and columns is not found on a report page, index data is not extracted from that page. The relative search text is considered optional and does not necessarily have to appear on every page.

Search specifications can also be used to locate multiple occurrences of index data.

You can access the View Definition Index Criteria panel to specify search criteria for index data.

**Follow these steps:**

1. [Access the View Definition Index Criteria Panel](#). (see page 291)
2. Enter the required fields to specify Search Criteria.

When search text is found within a report page, the location of that text is maintained and accessible through a reference symbol. This reference symbol can be used in subsequent search specifications or extraction specifications. This reference is designated in the line or column as r+n where r is the reference symbol and n is the number of lines or columns from that location. For column fields, r-n can also be specified.

**Note:** The line and column cannot specify different reference symbols.

## Access the Page Index Selection List

You can use the View Selection panel to access the page index selection list and locate a specific page index value.

### Follow these steps:

1. Do *one* of the following options in the View Selection panel:

- Enter the number of the view on the command line.
- Enter **S** to the left of the desired entry.

2. (Optional) Enter a value in the Index Value field that is used with your selection.

If there is an exact match between the value entered and a page index value, that text is displayed directly (bypassing the Page Index Selection List). If there is not an exact match, the Page Index Selection list is presented and you are positioned as close as possible to the value entered. If the logical view selected does not contain a page index, the index value is ignored.

3. Press Enter to display the Page Index Selection List.

This list displays all of the values that the product found for the selected index. This selection list allows you to display either all of the pages in the SYSOUT or report, or display only those pages selected by the chosen index. The Page Index Selection list supports the LOCATE command which you can use to scroll directly to a particular page index value.

4. Use the LOCATE command to scroll directly to a particular page index value.

Text for the LOCATE command is converted to uppercase. This is true if the value is entered on either the command line of the Page Index Selection list or in the Index Value field of the View Selection panel. To retain the case of the entered value, enter it as a text string (*t'textstring'*). For example:

```
Index Value ==> abCDefg
```

```
locates "ABCDEFGG".
```

```
Command ==> LOCATE t'abCDefg'
```

```
locates "abCDefg".
```

## Create the Page Indexes: Online and Batch

You can create a page index in batch or online mode.

After you define page indexing criteria for a report, CA View automatically creates the page index when it archives subsequent versions of the report.

You can manually create a page index for a report that is already archived or create additional indexes for a report. Because the report must be on primary DASD, you may have to load it back to DASD first. If the report was already backed up to tape or optical disk, it is backed up again with its index. If you do not want the reports to be written to tape or optical again, you can use the DI command to delete any indexes you created.

**Follow these steps:**

1. Submit a SARBCH job using the INDEX control statement, in batch mode.

**Note:** For more information about SARBCH INDEX, see the *Reference Guide*.

2. Use the I command (see the following section), in online mode.

You can now build or rebuild indexes.

## Create a Page Index Using the I Command

You can create a batch job to build or rebuild the page indexes online.

**Follow these steps:**

1. Enter / next to the SYSOUT ID to be indexed, then press Enter.

The JCL created message appears in the upper-right corner of the panel.

2. Do one of the following actions:

- a. Enter **SUB**mit on the command line to submit the JCL.
- b. Log out and CA View submits the job.

3. Before logging out, you are prompted for JOB statement information.

An archived report must reside on the primary disk database to be indexed. If a report is on tape or secondary disk, use the L (load) command, followed by I (index).

## AFP and Xerox Reports and Cross-Report Indexing

For AFP or Xerox reports that were archived by the CA View SARFSS interface to participate in cross-report indexing, do the following actions:

- Define a logical view for the report.
- Define page indexes to match the view with the same names as the ACIF or Xerox indexes.

Indexing is case insensitive. Any index information you specify (LINE, COL, LENGTH, EXTRACT) is ignored. The match is based on the length of the index name, or until a blank is reached.

**Note:** Private views cannot participate in cross-report indexing.

## PDF Reports and Page Indexing

For PDF reports that were archived by the CA View PDF Collector SARFSS interface to participate in cross-report page indexing, you must do the following:

- Define a logical view for the report.
- Define page indexes in the logical view to match the same names as the PDF index names defined in your PDFINDEX member.

Any index information you specify in the logical view (LINE, COL, LENGTH, EXTRACT) is ignored. The match is based on the indexing criteria defined in the PDFINDEX member.

**Note:** For more information about PDF Indexing, see PDF Indexing in CA View in the *Reference Guide*.

## Extracting Index Data

The Page Indexing Criteria panel defines the methods for extracting index data from a report. The panel contains extraction and search specifications. The extraction specifications define the location and length of the index data, and the search specifications provide the ability to locate index data and to qualify pages for index selection.

Index data can be obtained from a fixed or floating location on a page. A maximum of eight locations can be extracted from a page. If the location of the index data varies from page to page or multiple occurrences of the index data are contained within a page, search specifications can be used to determine the location of that index data.



## Search Specifications

The search specifications of the Page Indexing Criteria perform two functions: to qualify pages for indexing and to locate information that can be indexed. The search specifications identify a text string that is to be found within a report page. The search can be performed on specific lines and columns or relative lines and columns. Specific lines and columns identify lines and columns by number, such as line 2 column 5. Relative lines and columns reference lines and columns relative to another search specification. If the search text for specific lines and columns is not found on a report page, index data is not extracted from that page. The relative search text is considered optional and does not necessarily have to appear on every page.

When search text is found within a report page, the location of that text is maintained and accessible through a reference symbol. This reference symbol can be used in subsequent search specifications or extraction specifications. This reference is designated in the line or column as  $r+n$  where  $r$  is the reference symbol and  $n$  is the number of lines or columns from that location. For column fields,  $r-n$  can also be specified.

**Note:** The line and column cannot specify different reference symbols.

The search specifications can also be used to locate multiple occurrences of index data. For example, if a report page contains many account numbers, a search specification can be defined to locate these account numbers so that they can be indexed. More than one search specification can be designated as having multiple occurrences. In this case, the second and subsequent specifications must be based on the relative location of the earlier search specification. If this is not done, incorrect index data may be associated with other index data.

**Note:** Only the first occurrence of the search text is found on a given report line.

The search specifications are defined by the entries within a table. If the table contains more than five entries, an information line, More: - +, appears to indicate that entries precede or follow the entries being displayed. You can scroll the table entries up and down using the scroll commands, but, position the cursor within the search specification display to scroll. If not, the extraction specifications are scrolled. Entries in the table can be modified by overtyping. In addition, selection codes are available for inserting, deleting, repeating, copying, and moving entries.

## Extraction Specifications

The extraction specifications of the Page Indexing Criteria define the location and length at which to extract index data from a report page. You can extract a maximum of eight locations from a page. The maximum length is 252 bytes. You can specify an index name for each location to identify uniquely the contents of the data.

An index can also be the composite of multiple locations. When you define a composite index, specify the index name for the first location and leave it blank for the remaining locations. A cross report index requires an index name.

You can extract index data from a fixed or floating location. To extract index data from a floating location, provide a search specification to locate the index data. The extraction specification refers to that search specification through a reference symbol in the form  $r+n$ , where:

- $r$  is the reference symbol.
- $n$  is the number of lines or columns from that relative location.

For column fields, you can also specify  $r-n$ .

The entries in the table define the extraction specifications. You can scroll the table entries using the scroll commands. To modify entries in the table, type over the old values with the new values. In addition, you can use selection codes for inserting, deleting, repeating, copying, and moving entries.

## Accessing the Page Indexing Criteria Panel

Enter  $P$  (Define Page Indexing Criteria) on the command line of the primary View Definition panel and press Enter.

## The Page Indexing Criteria Panel

The following illustration displays the Page Indexing Criteria panel:

```
CA View ALL ----- View Definition - Indexing Criteria ----- Row 00001 of 00008
Command ==>                                         Scroll ==> PAGE

View ID --> SWILSON5

      Cross Report Index ==> NO      (Specify YES or NO)

Search Specifications:
  Begin End   Begin   End
Sel Line Line  Column Column Op Text                               T R

Extraction Specifications:                Left   Upper
Sel Index  Line  Column Length Extract Justify Case

***** BOTTOM OF DATA *****
```

## Field Descriptions

The following fields are found on the Page Indexing Criteria panel and are described in the same order in which the panel displays them.

### **Command**

Defines the system-wide command.

View ID

Displays the ID of the logical view.

### **Cross Report Index**

Specifies whether the page indexes created for this logical view participate in cross-report indexing.

Cross-report indexes can be selected using the I (index) option in the Select By field of the Primary Selection menu.

### **Sel**

Defines the input fields for entering tabular commands.

### **Begin Line**

Specifies the first line or only line on a page to be searched for the specified text.

The beginning line can be a specific line number from 1 to 255 or a relative line number in the form of  $r+n$  where  $r$  is the reference symbol from an earlier search specification (see R field) and  $n$  is the number of lines from the search specification in the range of 0 to 255.

This is a line number, not a record number. Take carriage controls into account when specifying a line number. In addition, the beginning and ending line fields cannot reference a different search specification. Search specifications cannot extend beyond a page boundary.

### **End Line**

Specifies the last line on a page to be searched for the specified text.

The ending line can be a specific line number from 1 to 255 or a relative line number in the form of  $r+n$  where  $r$  is the reference symbol from an earlier search specification (see R field) and  $n$  is the number of lines from the search specification in the range of 0 to 255. If omitted, the beginning line is the only line searched.

This is a line number, not a record number. In addition, the beginning and ending line fields cannot reference a different search specification.

### **Begin Column**

Specifies the first or only column on a page to be searched for the specified text.

The beginning column can be a specific column number from 1 to 32760 or a relative column number in the form of  $r+n$  or  $r n$  where  $r$  is the reference symbol from an earlier search specification (see R field) and  $n$  is the number of columns from the search specification in the range of 0 to 32760.

**Note:** This first column of data after the carriage control character is column 1. In addition, the line and column fields cannot reference a different search specification.

**End Column**

Specifies the last column on a page to be searched for the specified text.

The ending column can be a specific column number from 1 to 32760 or a relative column number in the form of  $r+n$  or  $r n$  where  $r$  is the reference symbol from an earlier search specification (see R field) and  $n$  is the number of columns from the search specification in the range of 0 to 32760. If omitted, the beginning column is the only column searched. The beginning and ending columns must be large enough to contain the text (as large as or larger than the text length).

Note: This first column of data after the carriage control character is column 1. In addition, the line and column fields cannot reference a different search specification.

**Op**

Specifies the type of comparison that is to be performed on the specified text.

The valid operations are:

EQ Compare equal to text

NE Compare not equal to text

LK Compare text to a pattern of characters

**Text**

Specifies the text to be searched for on the page.

The text is maintained as uppercase characters but matches lowercase page data.

For LK (like) operator the text field can specify a special matching character as indicated in the following table or any other character to match specifically that character.

The special matching characters are:

= Any character

? Any character

@ Alphanumeric character

# Numeric character

! Alphanumeric character

^ Nonblank character

< Lowercase character

> Uppercase character

**T**

Indicates whether multiple occurrence of the text can be found on a page.

**blank**

Indicates that once the text has been located on a report page no other lines in the report page are searched.

**c**

Indicates multiple occurrences of the text can be found on a page and each occurrence is followed by a series of related report lines that can span across report pages. If the first line of the specified line range on a page does not match the search text and other index fields have not changed, that page is considered a continuation of the previous page data and its associated indexes.

**M**

Indicates that multiple occurrences of the text can be found on a report page.

**Note:** Only the first occurrence of the search text is found on an individual line of the page.

**R**

Specifies the character that is used as a reference symbol to identify the location where the search is found on a page.

The reference symbol can be any non-blank character. This character must be unique within the search specifications. A reference symbol has to be defined only if a subsequent search or extraction of data is based on the location of this search text.

**Sel**

Allows input of a selection code to copy, delete, insert, move, or repeat entries.

**Index**

Specifies the index names.

The table allows for a maximum of eight index names and locations where index data can be extracted from a page of data.

**Line**

Indicates a specific or relative line where index data is to be extracted.

The line number can be a specific line number from 1 to 255 or a relative line in the form  $r+n$  where  $r$  is the reference symbol of a search specification and  $n$  is the number of lines from the search specification in the range of 0 to 255.

This is a line number, not a record number. Take carriage controls into account when specifying a line number.

**Column**

Indicates a specific or relative column where index data is to be extracted.

The column number can be a specific column number from 1 to 32760 or a relative column number in the form of  $r+n$  or  $r n$  where  $r$  is the reference symbol of a search specification and  $n$  is the number of columns from the search specification in the range of 0 to 32760.

Note: This first column of data after the carriage control character is column 1. In addition, the line and column fields cannot reference a different search specification.

**Length**

Specifies the length of the index field.

**Extract**

Specifies the extract option to be used for multi-level indexing.

The extract options are:

**FIRST**

Extracts index data from the page of data when the previous index specification data changes.

**ALL**

Extracts index data from every page.

**NBLK**

Extracts nonblank index data.

**Note:** The default value is ALL.

**Left Justify**

Specifies whether leading blanks in the index data are to be retained as found or left justified.

The specification can be:

**NO**

Retains the index data as found on the page.

**YES**

Removes leading blanks from the index data.

**Note:** The default value is NO.

**Upper Case**

Specifies whether the index data is to be retained as found or converted to uppercase characters.

The specification can be:

**NO**

Retains the index data as found on the page.

**YES**

Translates all lowercase character to uppercase in the index data.

**Note:** The default value is YES.



## Page Indexing Criteria Example

The following illustration shows the Page Indexing Criteria panel for the TESTRPT SYSOUT:

```

CA View ALL ----- View Definition - Indexing Criteria ----- Row 00001 of 00008
Command ==>                                                    Scroll ==> PAGE

View ID --> TESTRPT

      Cross Report Index ==> NO      (Specify YES or NO)

Search Specifications:
  Begin End   Begin   End
Sel Line Line  Column  Column Op Text
                                           T R

Extraction Specifications:
Sel Index  Line  Column  Length Extract Justify Case
  DIVISION 1    1      10    NBLK   NO    NO
  NAME     2    1      30    FIRST  NO    NO

***** BOTTOM OF DATA *****
  
```

Be aware of the following:

- This example uses multi level indexing.
- You can define up to eight levels of index.
- For TESTRPT, the primary index is called DIVISION and the sub-index is called NAME.

The following illustration shows the Page Indexing Criteria panel for the SALESRPT SYSOUT:

```

CA View ALL ----- View Definition - Indexing Criteria ----- Row 00001 of 00008
Command ==>                                         Scroll ==> PAGE

View ID --> SALESRPT

      Cross Report Index ==> YES      (Specify YES or NO)

Search Specifications:
  Begin End   Begin   End
Sel Line Line  Column  Column  Op Text
  1         60      100    EQ 'SUMMARY'
                                                    T R

Extraction Specifications:
Sel Index  Line  Column  Length  Extract  Left  Upper
           Justify Case
REGION    2    1       20     ALL     NO   NO
AMOUNT    2    40      15     ALL     NO   NO

***** BOTTOM OF DATA *****

```

Be aware of the following:

- This example extracts two index fields from the report summary pages: Region and Sales Amount.
- The index is defined as a cross report index.

The following illustration shows the Page Indexing Criteria panel for the BANKRPT SYSOUT:

```

CA View ALL ----- View Definition - Indexing Criteria ----- Row 00001 of 00008
Command ==>                                         Scroll ==> PAGE

View ID --> BANKRPT

      Cross Report Index ==> NO      (Specify YES or NO)

Search Specifications:
  Begin End   Begin   End
Sel Line Line  Column  Column  Op Text
  3         60      100    LK '###-#####'
                                                    T R

Extraction Specifications:
Sel Index  Line  Column  Length  Extract  Left  Upper
           Justify Case
BRANCH    2    1       5      ALL     NO   NO
ACCOUNT  @+0  @+0    12     ALL     NO   NO
NAME     @+1  @+5    20     ALL     NO   NO

***** BOTTOM OF DATA *****

```

Be aware of the following:

- This example extracts three index fields from a report: Branch, Account, and Name.
- The report can contain more than one account on a page.

The following illustration shows the View Selection panel; note that page indexing information is included as part of the logical view definition.

```

CA View EXPO ----- View Selection -----
Command ==>                                     Scroll ==> HALF

      Index Value ==>

Sel Num Acc View ID                               Description
--  ---  ---  ---
000 PUB REPORT1                                  NATIVE BROWSE
001 PUB                                          VIEW INDEXED BY DIVISION AND NAME
002 PUB                                          VIEW INDEXED BY TITLE
003 PUB                                          VIEW INDEXED BY STATE
004 PUB                                          VIEW INDEXED BY DATE
005 PUB                                          VIEW INDEXED BY NAME
006 PUB
007 PUB
008 PRV                                          USER PRIVATE LOGICAL VIEW
  
```

- Each primary index name (DIVISION, TITLE, and so on) is listed with the view description.
- The Index Value field allows you to enter an initial text string to be located from the index choices.

## Accessing the Page Index Selection List

1. Do one of the following options in the View Selection panel (see the preceding illustration):
  - Enter the number of the view on the command line.
  - Enter **S** to the left of the desired entry.
2. Optionally, enter a value in the Index Value field that is used with your selection.
 

If there is an exact match between the value entered and a page index value, that text is displayed directly (bypassing the Page Index Selection List). If there is not an exact match, the Page Index Selection list is presented and you are positioned as close as possible to the value entered. If the logical view selected does not contain a page index, the index value is ignored.
3. Press Enter to display the Page Index Selection List.

```

CA View ALL ----- Page Index Selection List -----
Command ==>                                         Scroll ==> PAGE

ID ---> SWILSRUG

Sel DIVISION  NAME                                     ST D
*** ALL PAGES ***
  100         ROBERT EINSTEIN                         MZ 1
  200         WILL DOE                                NY 0
  300         JOHN CLINTON                             AK 0
  400         TIM REAGAN                               CA 9
  500         BOB BUSCH                                TS 1
  600         RONALD FORD                              MY N
***** BOTTOM OF DATA *****
    
```

This list displays all of the values that the product found for the selected index. This selection list allows you to display either all of the pages in the SYSOUT or report, or display only those pages selected by the chosen index. The Page Index Selection list supports the LOCATE command which you can use to scroll directly to a particular page index value.

Use the LOCATE command to scroll directly to a particular page index value.

Text for the LOCATE command is converted to uppercase. This is true if the value is entered on either the command line of the Page Index Selection list or in the Index Value field of the View Selection panel. To retain the case of the entered value, enter it as a text string (t'textstring'). For example:

```

Index Value ==> abCDefg
               locates "ABCDEFGG".

Command ==> LOCATE t'abCDefg'
               locates "abCDefg".
    
```

## Creating the Page Indexes: Online and Batch

After you define page indexing criteria for a report, CA View automatically creates the page index when it archives subsequent versions of the report.

You can manually create a page index for a report that is already archived or create additional indexes for a report. Because the report must be on primary DASD, you may have to load it back to DASD first. If the report was already backed up to tape or optical disk, it is backed up again with its index. If you do not want the reports to be written to tape or optical again, you can use the DI command to delete any indexes you created.

You can create a page index in batch or online mode:

- In batch mode, you submit a SARBCH job using the INDEX control statement.  
**Note:** For more information about SARBCH INDEX, see the *Reference Guide*.
- In online mode, use the I command (see the following section).

## Creating a Page Index—the I Command

Online, to create a batch job to build or rebuild the page indexes, do the following actions:

Enter / next to the SYSOUT ID to be indexed, then press Enter.

CA View ALL ----- Sysout Selection List -----				Scroll ==> PAGE		
Command ==>						
SeI	Sysout ID	Arch Date	Time	Loc	Lines	Pages
=>	*	*	*	*	*	*
i	SWILSON5	04/20/2013	21:56	DISK	52	13
	SWILSON5	04/20/2013	21:27	OPEN	0	0
	SWILSON5	04/20/2013	21:23	OPEN	0	0
	SWILSON5	04/04/2013	15:21	DISK	52	13
	SWILSON5	04/04/2013	15:14	DISK	32	8
	SWILSON5	10/09/2013	23:14	PERM	514	46
	SWILSON5	10/09/2013	23:10	PERM	514	44
	SWILSON6	09/11/2013	13:18	PTAP	81	4
	SWILSRAA	08/24/2013	14:22	PERM	19	3
	SWILSRDD	08/24/2013	14:22	PERM	37	3
	SWILSREA	08/24/2013	14:22	PERM	37	3
	SWILSRFD	08/24/2013	14:22	PERM	37	3
	SWILSRGF	08/24/2013	14:22	PERM	37	3
	SWILSRND	08/24/2013	14:22	PERM	37	3
	SWILSRNG	08/24/2013	14:22	PERM	37	3
	SWILSRPA	08/24/2013	14:22	PERM	37	3

The JCL created message appears in the upper-right corner of the panel.

- Do one of the following actions:
  - Enter **SUBmit** on the command line to submit the JCL.
  - Let CA View submit the job when you log out.
- Before logging out, you are prompted for JOB statement information.

An archived report must reside on the primary disk database to be indexed. If a report is on tape or secondary disk, use the L (load) command, followed by I (index).

## Modifying and Creating Page Indexes

**Important!** If you want to change the page indexing criteria for a page-indexed report, create a new logical view and define the new page indexing criteria to the new view.

For example, suppose view 2 of a report has page indexing criteria defined. If you change the page indexing criteria for view 2 and save the changes, you get an error panel if you try to browse the report using view 2. The page indexing criteria specified in the panels does not match the page index CA View has in its database for view 2.

As a precaution against this type of error, CA View does not save changes made to a view unless you enter SAVE on the command line of the View Definition panel. Using PF3 to exit the panel does *not* save any updates made.

If you inadvertently change the criteria after the page index was created, you can index the report again (using the I selection command or SARBCH INDEX job) with the new criteria. You can then browse the newly indexed report online.

Each time that a report is archived, all page indexing criteria that are currently specified for the report are used to create the page indexes. Also, when you manually create the page index (using the I selection command or SARBCH INDEX job), all current page indexing criteria for all views are used to create the page indexes.

If a report that has been copied to tape and/or secondary disk is indexed or indexed again, it is copied to tape, secondary disk, or both, again unless you use the online DI command or SARBCH /DELETE INDEX to delete the new index first.

## Specifying Colors

To make the rows of a report more easily readable online, you can have the product present rows in alternating colors and highlight characteristics, as presented in this section.

### Accessing the Alternating Color Panel

Enter *L* (Define Color Specifications) on the command line of the primary View Definition panel and press Enter.

## The Alternating Color Specification Panel

The following illustration displays the Alternating Color Specification panel.

```
CA View EXPO ----- View Definition -----  
Command ==>                                     Scroll ==>  
  
View ID ---> REPORT1  
  
Alternating Color Specification:  
  
First Color ==>                                First Highlight ==>  
Second Color ==>                               Second Highlight ==>  
  
Line Count ==> 1
```

### Field Descriptions

The following descriptions define the various fields found on the Alternating Color Specification panel. These list the field names in the same order in which the panel displays them.

**First Color**

Specifies the first color to use (blue, red, pink, green, turquoise, yellow, white).

**First Highlight**

Specifies the first highlight characteristic to use.

Values are bold (B), reverse video (R), or underscore (U).

**Second Color**

Specifies the color to be alternated with the first color.

**Second Highlight**

Specifies the highlight characteristic to be alternated with the first highlight characteristic.

**Line Count**

Specifies the number of lines to consider one group (for example, alternate every line, every three lines, etc.,).



## Using VIEW COLS Mode to Create Logical Views

The VIEW COLS mode provides an easy way to create logical views. It simplifies the process of defining the columns for a view by allowing you to define the columns in browse mode. When you exit this mode, CA View takes the column specifications that you defined and enters them into the Column Specifications Panel. You can then save these specifications as part of a logical view. VIEW COLS mode also allows you to specify Page Indexing Criteria, and default Column Heading Specifications.

When you are in the VIEW COLS mode, CA View displays the SYSOUT or report in its native browse format. Four additional header lines are also displayed above the SYSOUT, and it is on these lines that you define the columns.

### Accessing the VIEW COLS Mode from Browse

The procedure you use to access the View Definition panel varies depending on whether you are modifying an existing view or creating one.

#### Modifying an Existing View

1. In the SYSOUT or Report Selection List, enter *Vnnn* in the Sel column of the desired SYSOUT or report, where *nnn* is the number of the view you want to modify.  
The maximum number is 255.
2. Press Enter to display the browse panel with definition *nnn* of the SYSOUT or report.
3. On the command line of the browse panel, enter *VIEW COLS* and press Enter to display the primary View Definition panel.

#### Creating a New View for Output with No Existing View Definitions

1. In the Sysout or Report Selection List, enter *S* in the Sel column of the desired SYSOUT or report.
2. Press Enter to display the browse panel with the native view of the SYSOUT or report.
3. On the command line of the browse panel, enter *VIEW COLS* and press Enter to display the primary View Definition panel.

## Creating a New View for Output with Existing View Definitions

### Method 1

1. Enter  $V\emptyset$  in the Sel column of the desired SYSOUT or report to select the native view.
2. Press Enter to display the browse panel with the native view of the SYSOUT or report.
3. On the command line of the browse panel, enter *VIEW COLS* and press Enter to display the primary View Definition panel.

### Method 2

1. Enter *S* in the Sel column of the desired SYSOUT or report.
2. Press Enter to display the View Selection panel.
3. Enter *S* next to the desired Native Browse entry and press Enter.  
The native view of the SYSOUT is displayed.
4. On the command line of the browse panel, enter *VIEW COLS* and press Enter to display the primary View Definition panel.

## SYSOUT Selection Example for the VIEW COLS Mode

This section illustrates how to select a SYSOUT for which to create a logical view definition from browse. Select a report for which views have been previously defined. Because you do not know which view numbers have been defined, you will first access the View Selection panel and enter the VIEW COLS mode.

1. Select the report for browsing from the Sysout Selection List (as shown in the following illustration) and press Enter.

```
CA View ALL ----- Sysout Selection List -----
Command ==>                                         Scroll ==> PAGE
```

Sel	Sysout ID	Arch Date	Time	Loc	LINES	PAGES
-->	*	*	*	*	*	*
S	CLS1JE4	04/05/2013	16:38	PTAP	745	36
	CLS1JE4-R2	04/05/2013	16:38	PTAP	506	14
	CLS1JE4-R4	04/05/2013	16:38	PDK2	103	8
	CLS1JE4-R5	04/05/2013	16:38	PDK2	25	2
	CLS3JS4	04/05/2013	09:50	PTAP	86	7
	DLEEJOB2	08/28/2013	20:30	PTAP	284	6
	DLEEJOB2	08/28/2013	20:30	PTAP	15	1
	DLEEJOB2	08/28/2013	20:23	PTAP	177	3
	DLEEJOB2	08/28/2013	20:23	PTAP	108	3
	DLEEJOB2	08/28/2013	20:23	PTAP	15	1
	DLEEJOB3	08/28/2013	20:31	PTAP	177	3
	DLEEJOB3	08/28/2013	20:31	PTAP	108	3
	FREDJCL	05/06/2013	09:45	PTAP	723	21
	FREDJCL	05/06/2013	09:45	PTAP	66	4
	FREDJCL	05/06/2013	09:41	PTAP	723	21
	FREDJCL	05/06/2013	09:41	PTAP	66	4
	FREDRPT	07/12/2013	10:29	PTAP	821	23

The View Selection list is displayed as shown in the following illustration.

**Note:** View 006 and 007 have not been defined and are available for your use.

```
CA View EXPO ----- View Selection -----
Command==>                                         Scroll ==> HALF
```

Index Value ==>		Description
000	PUB REPORT1	NATIVE BROWSE
001	PUB	VIEW INDEXED BY DIVISION AND NAME
002	PUB	VIEW INDEXED BY TITLE
003	PUB	VIEW INDEXED BY STATE
004	PUB	VIEW INDEXED BY DATE
005	PUB	VIEW INDEXED BY NAME
006	PUB	
007	PUB	
008	PRV	USER PRIVATE LOGICAL VIEW

1. To access the native view, enter 0 on the command line and press Enter.

The SYSOUT is displayed in the native browse mode, as shown in the following illustration.

```

CA View Browse - SWILSON5 ----- Rec 0000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==> VIEW COLS                               Scroll ==> PAGE
***** TOP OF DATA *****
.SARPAGE1
NAME          ACCOUNT NUMBER    REGION    DIVISION    MONTH TOTAL
-----
.ABERNATHY    XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ACME         XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ADLER        XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ALLISON      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.AXEL         XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ALSTER       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ALSTON       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ATNE        XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BALICK       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BARELL       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BAROVELLI    XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BASSE       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BASLICH      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CANTRELL     XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CELESTE      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CENNET       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CHASE        XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CHASIN       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CHINOIS      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CLAPKIN      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
    
```

1. To access the VIEW COLS mode, enter *VIEW COLS* on the command line and press Enter.

The SYSOUT is displayed in native view with the VIEW COLS header lines. See the following section for instructions on using this mode to create a view definition.

## Using the VIEW COLS Mode

When you access SYSOUT or reports in the VIEW COLS mode, CA View displays the output in its native view, and places the four VIEW COLS header lines between the CA View command line and the beginning of the SYSOUT.

The following illustration displays of SYSOUT in the VIEW COLS mode. The four lines above the TOP OF DATA line are the VIEW COLS lines.

```

CA View  Browse - SWILSON5  -----  Rec 0000000  Pg 0000001.001  Lock 00  Col 001 080
Command ==>                                                    Scroll ==> PAGE

      PSLINE   =>          PSCOL       =>          PSLEN       =>
      EXCL RECS =>   H1 =>   H2 =>   H3 =>   H4 =>   H5 =>   H6 =>
.....
Y.....
***** TOP OF DATA *****
NAME          MONTH TOTAL  ACCOUNT NUMBER      DIVISION
-----
ABERNATHY     xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
ACME          xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
ADLER         xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
ALLISON       xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
AXEL          xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
ALSTER        xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
ALSTON        xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
ATNE          xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
BALICK        xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
BARELL        xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
BAROVELLI     xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
BASSE         xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
BASLICH       xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
CANTRELL      xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
CELESTE       xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
CENNET        xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx
CHASE         xxxxxxxxxx  xxxxxxxxxxxxxxxx   xxxxxxxx

```

The following tables examine the four heading lines that are displayed above the SYSOUT when you are working in the VIEW COLS mode. Each table examines one line of the header, with the last table examining the last two lines because these two lines work together.

## First Line of VIEW COLS Header Fields

The following table defines the fields in the first line of the VIEW COLS header. The values you specify here on the Page Indexing Criteria panels are automatically entered:

### PSLINE

Specifies the number of the line that contains the page index field

**Note:** Because this is the line number and not the record number, consider carriage control characters. You can use the WHERE command to determine the line number. (See the section Determining Cursor Position—the WHERE Command, later in this chapter.)

### PSCOL

Specifies the column number at which the page index field starts.

### PSLEN

Specifies the length of the page index field.

## Second Line of VIEW COLS Header Fields

The following descriptions define the fields in the second line of the VIEW COLS header.

### EXCL RECS

Specifies the number of records that you want to exclude from the top of each page of the view.

The product automatically enters this value on the primary View Definition panel.

**Note:** This is the number of *records*, not necessarily the number of lines. Use the WHERE command to help to determine the record number. (See the section Determining Cursor Position—the WHERE Command, later in this chapter.)

### H1 – H6

Specifies each of the six fields (labeled *H1* – *H6*) that represent one of the six lines of the default column heading for the view

Enter the number of the record to use as the heading for each column in this logical view. The product enters these values automatically on the Column Specifications panel.

**Note:** Record numbers you specify here are relative to the beginning of the logical page. Use the WHERE command to help to the record number. (See the section Determining Cursor Position—the WHERE Command, later in this chapter.)

### Third and Fourth Lines of VIEW COLS Header Fields

The third and fourth lines of the VIEW COLS header consist of a series of dots, one above each column of the display. By overtyping the dots in either or both of these header lines, you can set the width and order of the data columns for the logical view you are creating. You can also enable or disable the display of the carriage control characters, and lock the left column of the logical view to keep it from scrolling off the display.

The following table gives an overview of how to access each of the functions available with these header lines:

Function	Example	Description
Enable and Disable Carriage Control Display	Y..... .....	<p>The leftmost column of these two header lines controls the carriage control character display.</p> <p>To display the carriage control character in a logical view, replace the dot in either line with a Y.</p> <p>If you do <i>not</i> want to include carriage control characters in the your logical view, replace the leftmost dot in either line with an N.</p> <p>The product automatically enters this value on the primary View Definition panel.</p>
Define Columns	.1...1..2....2 .0...0..... <----> <----> Col 1 Col 2	<p>Replace the dots in the column of the display where you want the column of the view to begin and end.</p> <p>Use the number of the view column. In the example to the left, view columns 10 and 2 are defined. Single digit numbers can be entered on either line; double digit characters are entered vertically. In this example, column 2 is displayed in the logical view before column 10.</p> <p>The product automatically enters these column specifications on the Column Specifications panel.</p>
Lock Left Column	.L...L...2....2 ..... <----> <----> Col 1 Col 2	<p>Locate the dot in the display column where you want the locked view column to begin and replace it with an L; do the same in the display column where you want the locked view column to end.</p> <p>Because the locked column is always column 1, the next column you define is column 2, as in the example.</p> <p>The product automatically enters this value on the primary View Definition panel.</p>

## Example of the VIEW COLS Mode

The following illustration shows the TESTRPT SYSOUT in the VIEW COLS mode. The columns have been defined. To see the end of column three, the default column headings, and page indexing criteria, you would have to scroll right.

```
CA View  Browse - SWILSON5 ----- Rec 0000000 Pg 0000001.001 Lock 00 Col 001 080
Command ==>                               Scroll ==> PAGE

      PSLINE   => 5           PSCOL     => 66           PSLEN     => 28
      EXCL RECS => 7 H1 =>    H2 => 4   H3 => 5   H4 => 6   H5 => 7   H6 => 8
.....
N1.....1.....2.....2.....3.....
***** TOP OF DATA *****
NAME          MONTH TOTAL  ACCOUNT NUMBER          DIVISION
```

**Note:** When you are finished defining COLS, the View Definition panel is automatically updated.

## Determining Cursor Position—the WHERE Command

Use the WHERE command to determine the location of the cursor position within the SYSOUT or report. It is available only in the native browse mode. When you invoke the WHERE command, a short message displays, indicating the line and column number of the position of the cursor. When you invoke the help command, the product also displays the page and record numbers for the position of the cursor.

### Guidelines for Using the WHERE Command

- The WHERE command is most useful if assigned to a PF key. For instructions about how to assign a PF key, see the section KEYS Command in the chapter "Introduction."
- The WHERE command is only available when you are in a native browse mode of a SYSOUT or report. Because the VIEW COLS mode puts you into a native browse, you can use WHERE in this mode.



## Using the WHERE Command

Follow these steps to use the WHERE command:

1. Position the cursor at the location you want to determine.
2. Press the PF key assigned to the WHERE command.

CA View does the following:

- Highlights the word (if any) at the cursor's position
  - Displays the line number and column number (position) of the cursor in the short message area (upper-right corner) of the screen
3. Press the PF key assigned to the HELP command (the default is PF 1).

CA View displays a long message (below the COMMAND line) that details the line, position, page, and record numbers for the position of the cursor.

## WHERE Command Examples

The following two examples use the WHERE command.

### Example 1

In example 1, use the WHERE command to help you determine the values for the Page Indexing Criteria. This criteria is most easily specified in the VIEW COLS mode, which has fields in its header lines for entering the necessary data to create the Page Index.

Because the field on which you want to create the Page Index is the customer name, place the cursor at the blank under the N in the word NAME, as shown in the following illustration:

```

CA View  Browse - SWILSON5 ----- Line=00003 Pos=00001
Command ==>                               Scroll ==> PAGE
***** TOP OF DATA *****
.SARPAGE1
NAME          ACCOUNT NUMBER    REGION    DIVISION    MONTH TOTAL
-----
.ABERNATHY    XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ACME         XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ADLER        XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ALLISON      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.AXEL         XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ALSTER       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ALSTON       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.ATNE         XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BALICK       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BARELL       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BAROVELLI    XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BASSE        XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.BASLICH      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CANTRELL     XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CELESTE      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CENNET       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CHASE        XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CHASIN       XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CHINOIS      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
.CLAPKIN      XXXXXXXXXXXXXXXX    XXXXXX    XXXXXXXX    XXXXXXXXXXXX
    
```

1. When you press the PF key assigned to WHERE, CA View displays the message in the short message area indicating you that the cursor is at line 3 and position (that is, column) 1.  
Therefore, the value for PSLINE is 5, and the value for PSCOL is 2.
2. You can move the cursor to the end of this product field, use the WHERE command again, then do the arithmetic to determine that the value for PSLLEN is 28.

### Example 2

WHERE can also indicate you the record and page numbers with its long message. This is helpful when defining column headings, or determining how many records or pages to exclude from the logical view.

1. To display WHERE's long message, first display the short message as shown previously.
2. Then press the PF key assigned to HELP.

The long message is displayed as in the following illustration:

```

CA View Browse - SWILSON5 ----- Line=00003 Pos=00001
Command ==>                               Scroll ==> PAGE
The text is at line=00003, Pos=00001, Page=00000001, Rec=004
***** TOP OF DATA *****
.SARPAGE1
NAME          ACCOUNT NUMBER  REGION  DIVISION  MONTH TOTAL
-----
.ABERNATHY    XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ACME         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ADLER        XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ALLISON      XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.AXEL         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ALSTER       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ALSTON       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.ATNE         XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.BALICK       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.BARELL       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.BAROVELLI    XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.BASSE        XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.BASLICH      XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CANTRELL     XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CELESTE      XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CENNET       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CHASE        XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CHASIN       XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CHINOIS      XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
.CLAPKIN      XXXXXXXXXXXXXXXX  XXXXXX  XXXXXXXX  XXXXXXXXXXXX
    
```



# Chapter 9: System Administration: Defining Online Specifications

---

This section contains the following topics:

- [Overview](#) (see page 325)
- [Administration Panels and Commands](#) (see page 326)
- [Master Authority and Administration](#) (see page 326)
- [Define and Add Users Online](#) (see page 327)
- [Add and Delete Users Online](#) (see page 330)
- [Add and Modify Users in Batch](#) (see page 332)
- [Private Reports: SYSOUT/DIST ID Relationships](#) (see page 332)
- [Define DIST IDs for a SYSOUT ID Online](#) (see page 333)
- [Define SYSOUT IDs for a DIST ID Online](#) (see page 341)
- [Define SYSOUTS and DIST IDs in Batch](#) (see page 349)
- [View Database Statistics Online](#) (see page 350)
- [Define and Add Output Devices](#) (see page 351)
- [Define CA Spool Printer Attributes](#) (see page 357)
- [Define External Printer Attributes](#) (see page 359)
- [Define JES Printer Attributes](#) (see page 360)
- [Define VTAM Attributes](#) (see page 361)
- [Define Logical Views](#) (see page 363)

## Overview

System administrators can define the online system so that each end user has access to only those modes, facilities, and output that each one needs.

Specifications for such definitions can be grouped into the following categories:

### **User mode**

Controls user mode access and sets certain user-specific default data.

### **Private reports**

Links output to users or users to output through SYSOUT IDs and distribution IDs.

### **Device**

Defines synonyms for output devices such as printers, printer subsystems, and personal computers for data set downloading.

### **Logical view**

Defines private, public, or global views for customizing the look of a report.

## Administration Panels and Commands

The panels and commands that correspond to the categories in the preceding section are shown in the following table:

Definition	Panel	Command
User mode	Userid Definition panel	DEFINE USER
Private reports	Sysout Definition Selection List and Distribution Definition Selection List	DEFINE SYSOUT  DEFINE DIST
	Device Definition Selection List	DEFINE DEVICE
Logical view	View Definition panel	DEFINE VIEW

## Master Authority and Administration

To access the administrative facilities of the product such as the user mode, private report viewing setup, device definition, and global view definition, you must have a user ID with master authority. This authority can be set in one of two places:

- The MASTER initialization parameter (see the chapter "Initialization Parameters" in the *Reference Guide*).
- The Master field in the Userid Definition panel (see the following section).

## Define and Add Users Online

If you have master authority, the Userid Definition panel enables you to set mode access authority for CA View users. You can limit users to any combination of the five user modes, set the default mode in which a user automatically enters the product, and also define other mode-related settings.

To access the Userid Definition panel, perform these actions:

1. Enter *DEF USER* on the command line of your primary Selection panel.
2. Press Enter to display the Userid Definition panel.

The following sample panel is in SAR mode:

```

CA View SAR ----- Userid Definition Panel -----
Command ==>                                     Scroll ==> PAGE
          --- Last Access ---          AEESSJ
Sel Userid Password Date      Time    M L  0 0 Mode Banner  Printer
AAA          05/23/2013 15:24:15 N   YYYYN ALL  DEFAULT
ASDFASDF    08/15/2013 17:50:08 N   YYYNY ALL  DEFAULT
BILL        05/23/2013 15:25:43 N R  YYYNY ALL  DEFAULT
BMC         03/18/2013 08:50:00 Y R  YYYYN ALL  DEFAULT
CBOILES     05/19/2013 12:48:37 N RS YNNNN ALL  DEFAULT
CBROERI     10/25/2013 14:56:22 N RS YYYYY EXPO DEFAULT
CHRIS       11/05/2013 16:22:18 N RS YYYNY ALL  DEFAULT
CHUCK       01/12/2013 12:18:55 N R  YNNNN ALL  DEFAULT
CSIRG31     01/20/2013 08:50:41 N   YNNNN ALL  DEFAULT
DANIEL      03/12/2013 16:45:20 N RS YNNNN ALL  DEFAULT
DCB         05/06/2013 15:05:03 Y   YYYYY ALL  DEFAULT
DDR         01/19/2013 14:17:25 N   YYYYY EXP  DEFAULT
DD1CC73     01/04/2013 17:03:11 N   YNNNN ALL  DEFAULT
DLEE        11/03/2013 10:55:59 N RS YNNNN ALL  DEFAULT
DLP         05/02/2013 12:02:40 N   YYYYN ALL  DEFAULT
EGLASSM     02/05/2013 08:33:05 Y RS YYYYY SAR  DEFAULT
EML         01/16/2013 11:11:17 N RS YYYYN ALL  DEFAULT
EMS         08/22/2013 12:55:30 N RS YYYYN SARO DEFAULT
ESG         03/11/2013 13:08:29 N RS YYYYY SARO DEFAULT

```

Use this panel to add, change, or delete data about users. All user IDs in this panel are listed in alphabetical order.

The following illustration is an example of this panel after scrolling to the right once.

```

CA View SAR ----- Userid Definition Panel -----
Command ==>                                     Scroll ==> PAGE
Sel Userid Mask                               Dist ID
AAA      AAA                                  AAA
ASDFASDF ASDFASDF                             ASDFASDF
BILL     BILL                                BILL
BMC      *                                   BMC
CBOILES  CBOILES                              CBOILES
CBROERI  *                                   SWILSON
CHRIS    CHRIS                                CHRIS
CHUCK    CHUCK                                CHUCK
CS1RG31  CS1RG31                              CS1RG31
DANIEL   DANIEL                               DANIEL
DCB      DCB                                  DCB
DDR      *                                   FRED
DD1CC73  DD1CC73                              DD1CC73
DLEE     LEE                                  DLEE
DLP      DLP                                  DLP
EGLASSM  *                                   EGLASSM
EML      EML                                  EML
EMS      EMS                                  EMS
ESG      ESG                                  ESG
    
```

3. Enter data in the appropriate field areas.
4. Press Enter to update the data.

## Field Descriptions

The following table indicates the data that you can add, change, or delete in the Userid Definition panel. The columns in this table correspond to the columns displayed in the previous illustration.

Data Given	Column Name	Description
User ID	Userid	Specifies the user ID of a CA View end user.
Password	Password	Specifies an end user's password that must be entered before mode access is granted.  A blank in this column indicates that no password is required to sign on to the product.
Master authority	M	Indicates whether the user ID has master authority.  If the initialization parameter MASTER is set to ALL, this field has no effect. If the initialization parameter MASTER is set to a user ID, that user and all users who have a Y in this field have master authority.



Data Given	Column Name	Description
Language	L	<p>Specifies a two character code representing the language and panel preference code for the online user.</p> <p>Values for language code (first character of the LANGUAGE parameter) as follows:</p> <p>R (or blank)      English  C                  Canadian French  D                  Danish  G                  German</p> <p>Values for panel preference code (second character of the LANGUAGE parameter) as follows:</p> <p>(blank)          Standard selection list display panels.  S                  Selection list display panels with shortened identifier names (for compatibility with release 2.0 format).</p> <p><b>Note:</b> If the LANGUAGE parameter is not specified, the language and panel preference code from the LANGAUGE initialization parameter is used. If "S" is specified for panel preference code, language code must be specified.</p>
Date last accessed	Last Access Date	Identifies the date the user ID last accessed the online system.
Time last accessed	Last Access Time	Identifies the time the user ID last accessed the online system.
Mode access table	AEESSJ O O	<p>Specifies which modes a user can access. Each letter represents a column and must have either a Y or N (Yes or No) displayed for each user ID.</p> <p>Multiple modes can be displayed. Column headings include:</p> <p>A                  ALL mode  EO                  CA Deliver Operations mode  E                  CA Deliver mode  SO                  SAR Operations mode  S                  SAR mode  J                  JOB mode</p>

Data Given	Column Name	Description
Default mode	Mode	<p>Specifies the user's default mode when accessing CA View.</p> <p>Valid fields include:</p> <p>ALL    ALL mode</p> <p>EXPO   CA Deliver Operations mode</p> <p>EXP    CA Deliver mode</p> <p>SARO   SAR Operations mode</p> <p>SAR    SAR mode</p> <p>JOB    JOB mode</p>
Default banner type	Banner	Specifies the default banner page name for a user in ALL, CA Deliver Operations, or CA Deliver mode.
Default printer	Printer	Specifies the default printer name (reserved for future enhancement).
DIST ID mask	Dist ID Mask	<p>Specifies a generic distribution ID mask, which enables the user to have multiple DIST IDs.</p> <p>This mask can be:</p> <ul style="list-style-type: none"> <li>■ Any combination of alphanumeric characters</li> <li>■ An asterisk as a wildcard character <ul style="list-style-type: none"> <li>- A single asterisk equals no DIST ID restrictions.</li> <li>- An asterisk can be embedded in a DIST ID.</li> </ul> </li> </ul>
Distribution ID	Dist ID	The 1-to 32-character default DIST ID for CA Deliver users.

## Add and Delete Users Online

An administrator with master authority can use the following commands:

- **ADD**  
Adds a user ID to the User Definition panel
- **DELETE**  
Deletes a user ID from the User Definition panel

## ADD Command

To add a user ID to the USERID Definition Table, enter *ADD* on the command line, followed by the new user ID and press Enter.

For example:

Command ==> *ADD userid*

Where

*userid* specifies the new user ID.

Default field values that occur when you use the ADD command are as follows:

Column/Field	Column Name	Value
Master authority	M	N
Distribution ID mask	Dist ID Mask	Current user ID
Distribution ID	Dist ID	Current user ID
Mode access table	AEESSJ O O	As set with the DEFMODE initialization parameter
Default banner	Banner	DEFAULT
Default mode	Mode	ALL mode
Password	Password	Current password

## DELETE Command

To delete a user ID from the USERID Definition Table, do one of the following:

- Enter *D* in the SEL column and press Enter.
- Enter *DEL* on the command line, followed by the user ID that you want to delete and press Enter.

For example:

Command ==> *DEL userid*

Where

*userid* specifies the user ID to be deleted.

## Add and Modify Users in Batch

The DEFUSER control statement of the SARBCH utility adds new user IDs to the database and modifies existing user IDs.

**Note:**

- For more information about how to use the DEFUSER batch command, see SARBCH in the *Reference Guide*.
- You can add and modify user IDs to the CA View database in batch mode. If you have a large number of IDs to add or modify, use batch option, because online option allows you to add or modify only one ID at a time.

## Private Reports: SYSOUT/DIST ID Relationships

A *private report*, either a CA Deliver-generated report or a CA View SYSOUT group, is output that has a list of linked DIST IDs that are checked before access is allowed. If the DIST ID of a user is not valid for access to a private report, the user cannot access that report. For example, if a user in EXP mode tries to view a private report and the DIST ID is not in the set of valid DIST IDs, CA View automatically denies access.

The facility that identifies valid users of private output is called *private report viewing*.

Private report viewing can also link a list of report IDs or SYSOUT IDs to a DIST ID, so that one DIST ID can access multiple reports/SYSOUTs. EXP mode users have a list of reports; SAR mode users have a list of SYSOUTs.

If you are a system administrator with master authority, you are provided with two methods for setting up private reports and SYSOUT groups with the Private Report Viewing facility. These two methods are identified by the names of the commands that invoke them:

- DEF SYSOUT (Define SYSOUT)
- DEF DIST (Define distribution)

**Note:** Because private report relationships are inherent in CA Deliver (they are established when a report's distribution list is defined), and the CA View EXP mode is similar to CA Deliver, these relationships or lists do not have to be established in EXP mode.

## DEF SYSOUT and DEF DIST ID

The DEF SYSOUT and DEF DIST ID commands give a system administrator (with master authority) the ability to establish the lists (described previously) that link SYSOUT and DIST IDs in SAR mode.

- DEF SYSOUT  
Sets up or establishes a list of one or more DIST IDs for a SYSOUT ID.
- DEF DIST  
Sets up or establishes a list of one or more SYSOUT IDs for a DIST ID.

DEF SYSOUT and DEF DIST are both available online from the primary Selection panel and in batch as control statements of the SARBCH utility.

## Define DIST IDs for a SYSOUT ID Online

If you have master authority, you can use the DEF SYSOUT command to set up a list of one or more DIST IDs for a SYSOUT ID.

## Access the Sysout Definition Selection List

To access the Sysout Definition Selection List, invoke the DEF SYSOUT command by doing the following actions:

1. Enter *DEF SYS* on the command line of your primary Selection panel.
2. Press *Enter* to display the Sysout Definition Selection List.

The following illustration is an example of this panel as accessed in SAR mode:

```

CA View SAR ----- Sysout Definition Selection List -----
Command ==>                                         Scroll ==> PAGE

Sel Sysout ID          -- Last Changed -- User
*
DEF                    09/24/2013 18:05:15 EGLASSM
JLOPEZA                08/24/2013 18:46:47 SCOTT
JLOPEZP                04/02/2013 20:02:34 JLOPEZ
JLOPEZP                05/29/2013 18:58:46 JLOPEZ
S*                     09/24/2013 18:05:15 EGLASSM
SJ*                    10/13/2013 17:44:02 SWILSON
SOSI                   08/07/2013 20:05:59 JLOPEZ
SWILSONA-R1           09/27/2013 00:27:27 EGLASSM
***** BOTTOM OF DATA *****
    
```

The following illustration is an example of this panel after scrolling to the right once.

```

CA View SAR ----- Sysout Definition Selection List -----
Command ==>                                         Scroll ==> PAGE

Sel Sysout ID          Description
*
DEF                    ALL REPORTS
JLOPEZA                ACCOUNTS PAYABLE REPORTS
JLOPEZP                PAYROLL ACCOUNTS
S*                     ALL S REPORTS
SJ*
SOSI
SWILSONA-R1
***** BOTTOM OF DATA *****
    
```

This panel is used to establish a list of one or more DIST IDs for a SYSOUT ID.

3. Enter data *in the appropriate field areas*.
4. Press *Enter* to make the data current.

## The Sysout Definition Selection List

The following tables are the field descriptions, selection codes and descriptions.

## Field Descriptions

The following table describes the data provided in the Sysout Definition Selection List. The columns in this table correspond to the columns displayed in the previous illustration.

<b>Data Given</b>	<b>Column Name</b>	<b>Description</b>
SYSOUT ID	Sysout ID	Specifies a SYSOUT ID.
Message area		Messages about your SYSOUT identifier.
Date last changed	Last Changed	Indicates the date the SYSOUT was last modified.
Time last changed	Last Changed	Indicates the time the SYSOUT was last modified.
Last changed by	User	Indicates the user or job that last modified the SYSOUT.
Description	Description	Specifies a description of the SYSOUT.

## Selection Codes and Descriptions

The following table lists and describes the selection codes you can use in the Sysout Definition Selection List:

<b>Action</b>	<b>Selection Code</b>	<b>What the Product Does</b>
Delete	D	Deletes the SYSOUT ID, and all references to it, from this list.
Rename	R	Renames the SYSOUT ID and changes all references to it for the new name.
Select DIST IDs	S	Displays the DIST IDs linked to the selected SYSOUT ID in the Sysout Definition Specifications panel.

## Use the Define SYSOUT Input Commands

The input commands available for use in the Sysout Definition Selection List are as follows:

### **CONFIRM**

Enables or disables display of the Confirm Delete panel.

### **LOCATE (LOC)**

Locates the specified SYSOUT identifier.

### **SELECT (SEL)**

Selects a specific output for display.

## CONFIRM Command

To enable the display of the Confirm Delete panel when the Delete Selection Code is entered, enter *CONFIRM ON* on the command line of the Sysout Definition Selection List and press Enter.

For example:

Command ==> CONFIRM ON

To disable the display of the Confirm Delete panel when the Delete Selection Code is entered, enter *CONFIRM OFF* on the command line of the Sysout Definition Selection List and press Enter.

For example:

Command ==> CONFIRM OFF

To bypass display of subsequent Confirm Delete panels, enter any nonblank character in the Set delete confirmation off field on the Confirm Delete panel.

## LOCATE Command

To locate an entry, enter *LOC xxxxxxxx* on the command line of the Sysout Definition Selection List and press Enter.

For example:

Command ==> LOC xxxxxxxx

where xxxxxxxx specifies the character string you want to find. If the specified entry is not in the list, CA View scrolls to the entry that alphabetically, immediately precedes the specified entry.



## Access the Sysout Definition Specifications Panel

Use one of the following options to display the Sysout Definition Specifications panel and press Enter:

- To select a SYSOUT ID for display of the DIST IDs linked to it in the Sysout Definitions Specifications panel, enter `SEL xxxxxxxx` or `S xxxxxxxx` on the command line of the Sysout Definition Selection List.

For example:

Command ==> SEL xxxxxxxx

Where

xxxxxxx specifies the SYSOUT group you want to display.

- To use a generic parameter with the SELECT command, enter `SEL A*` on the command line of the Sysout Definition Selection List.
- Specifies the 1- to 32-character name of either a SYSOUT group or a report.

**Note:** If the ID contains quotes, spaces, or parentheses, it must be enclosed in single quotes. Any single quote in Report-id must be entered as a pair of single quotes because a non-paired single quote ends the ID. For example, if the value were JIM'S REPORT it must be entered as 'JIM''S REPORT'.

For example:

Command ==> SEL A\*

Where

A\* specifies all SYSOUT groups that start with the letter A.

## Sysout Definition Specifications Panel

The following panel allows you to establish a list of one or more DIST IDs for a selected SYSOUT group:

```

CA View SAR ----- Sysout Definition Specifications ----- Row 001 OF 002
Command ==>                                           Scroll ==> PAGE

  ID   ---> SWILSONA
  Desc ==>

Distribution Specifications:
Sel Dist ID          Rview Reprt Del
*                   Y     Y     Y
  CCOOK              Y     Y     Y
  JLOPEZ             Y     Y     Y
***** BOTTOM OF DATA *****

```

## Field Descriptions

The following table describes the data provided in the Sysout Definition Specifications panel:

<b>Data</b>	<b>Column Name</b>	<b>Description</b>
SYSOUT ID	ID	Specifies a 1- to 32-character SYSOUT ID. If you are using the short identifier display panels, this field is limited to 12 characters. This can be a wildcard specification (for example, A* is SYSOUT that starts with the letter A).
Description	Desc	Specifies a 1- to 40-character description of the SYSOUT.
Distribution identifier	Dist ID	Specifies a 1- to 32-character DIST ID linked to the Sysout ID.
View Restriction Indicator	Rview	Restricts views to greater than or equal to five. This one-character field can be specified as either: Y      The SYSOUT views are restricted N      All SYSOUT views can be accessed
Reprint indicator	Reprt	Indicates whether the specified SYSOUT can be reprinted in SAR mode by the DIST ID (user). This one-character field can be specified as either: Y      The SYSOUT can be reprinted N      The SYSOUT cannot be reprinted
Deletion indicator	Del	Indicates whether the specified SYSOUT can be deleted in SAR mode by the DIST ID (user). This one-character field can be specified as either: Y      The SYSOUT can be deleted N      The SYSOUT cannot be deleted

## Selection Codes and Descriptions

The following table explains valid selection codes for Sysout Definition Specifications:

Action	Code	Description
After	A	Specifies the line <i>after</i> which data is to be moved or copied.
Before	B	Specifies the line <i>before</i> which data is to be moved or copied.
Copy entry	C	Specifies the single DIST ID line to be copied; use with selection code A or B.
Copy block	CC	Specifies a block of lines of DIST IDs to be copied, identified with a pair of CCs specifying beginning and ending points; use with selection code A or B.
Copy lines	Cn	Specifies the first of <i>n</i> number of lines to be copied; use with selection code A or B.
Delete	D	Specifies the DIST ID line and all references to it.
Delete block	DD	Specifies a block of DIST ID lines to be deleted, identified with a pair of DDs specifying beginning and ending points.
Delete lines	Dn	Specifies the first of <i>n</i> number of lines to be deleted; use with selection code A or B.
Insert after	I	Specifies the line after which a blank line is to be inserted.
Insert lines	In	Specifies the line after which <i>n</i> number of blank lines are to be inserted.
Move data	M	Specifies a single line to be moved. After being moved, the entry exists only at its new location; use with selection code A or B.
Move block	MM	Specifies a block of lines to be moved. After being moved, the entries exist only at their new location; use with selection code A or B.
Move lines	Mn	The first of <i>n</i> number of lines to be moved. After being moved, the entries exist only at their new location.
Insert prior	P	The line before which a blank line is inserted.
Insert lines prior	Pn	The line before which <i>n</i> number of blank lines is inserted.

Action	Code	Description
Repeat	R	A single line to be repeated.
Repeat block	RR	A block of lines to be repeated, identified with a pair of RRs specifying beginning and ending points.

## Cancel and Copy the Definitions

DIST IDs for SYSOUT definitions can be canceled and copied using the Sysout Definition Specifications panel with the following commands:

- CANCEL  
Cancels the current display without saving any changes made after you entered the display.
- COPY  
Copies the distribution specifications from another SYSOUT identifier.

### CANCEL Command

To cancel the current display without saving any of the changes made after you entered the display, enter CANCEL on the command line of the Sysout Definition Specifications panel and press Enter.

Enter the END command to end the display while saving current changes.

### COPY Command

To copy the DIST IDs from another SYSOUT ID, enter *COPY xxxxxxxx* on the command line of the Sysout Definition Specifications panel and press Enter.

For example:

Command ==> COPY xxxxxxxx

where xxxxxxxx specifies the SYSOUT ID from which you want to copy data.

Specifies the 1- to 32-character name of either a SYSOUT group or a report.

**Note:** If the Report-Id contains quotes, spaces, or parentheses, it must be enclosed in single quotes. Any single quote in Report-id must be entered as a pair of single quotes because a non-paired single quote ends the ID. For example, if the value were JIM'S REPORT it must be entered as 'JIM'S REPORT'.

## Define SYSOUT IDs for a DIST ID Online

If you have master authority, you can use the Define DIST IDs facility to set up a list of one or more SYSOUT IDs for a DIST ID by doing the following:

## Access the Distribution Definition Selection List

To access the Distribution Definition Selection List, invoke the DEF SYS command by doing the following:

1. Enter *DEF DIST* on the command line of your primary Selection panel.
2. Press Enter to display the Distribution Definition Selection List.

For example:

Command ==>> DEF DIST

The following is an example of a panel that has been accessed through SAR mode; this panel allows you to establish a list of one or more SYSOUT IDs for a DIST ID:

```

CA View SAR ----- Distribution Definition Selection List -----
Command ==>>                                                    Scroll ==>> PAGE

Sel Dist ID                -- Last Changed --- User
A1                          08/24/2013 18:46:47 SCOTT
CCOOK                       10/06/2013 14:05:44 EGLASSM
DANIEL                       08/24/2013 18:53:49 SCOTT
EGLASSM                      09/27/2013 00:27:27 EGLASSM
FPAUL                        10/06/2013 14:05:44 EGLASSM
F2                           08/24/2013 18:46:22 SCOTT
F3                           08/24/2013 18:46:22 SCOTT
JLOPEZ                       08/07/2013 20:05:59 JLOPEZ
SCOTT                        10/13/2013 17:44:02 SWILSON
SWILSON                      10/06/2013 14:05:44 EGLASSM
TOM                          08/24/2013 18:49:23 SCOTT
***** BOTTOM OF DATA *****
    
```

The following illustration is an example of this panel after scrolling to the right once.

```

CA View SAR ----- Distribution Definition Selection List -----
Command ==>>                                                    Scroll ==>> PAGE

Sel Dist ID                Description
=>> *                       *
A1
CCOOK
DANIEL                       DANIEL END OF MONTH REPORTS
EGLASSM
FPAUL
F2
F3
JLOPEZ
SCOTT                       ACCESS TO ALL REPORTS
SWILSON
TOM
***** BOTTOM OF DATA *****
    
```

## Field Descriptions

The following table describes the data provided in the Distribution Definition Selection List:

Data Given	Column Name	Description
Distribution ID	Dist ID	Specifies a distribution ID.
Message area		Contains messages about your SYSOUT identifier.
Date last changed	Last Changed	Indicates the date the DIST ID was last modified.
Time last changed	Last Changed	Indicates the time the DIST ID was last modified.
Last changed by	User	Indicates the user or job that last modified the DIST ID.
Description	Description	Specifies a description of the DIST ID.

## Selection Codes and Descriptions

The following table lists and describes the selection codes you can use in the Distribution Definition Selection List.

Action	Selection Code	What the Product Does
Delete	D	Deletes the DIST ID and all references to it, from the list.
Rename	R	Renames the DIST ID and changes all references to it for the new name.
Select SYSOUT IDs	S	Displays the SYSOUT IDs linked to the selected DIST ID in the Distribution Definition Specifications panel.

## Use the Define DIST Input Commands

The input commands available for use in the Distribution Definition Selection List are as follows:

### **CONFIRM**

Enables or disables display of the Confirm Delete panel.

### **LOCATE (LOC)**

Locates the specified SYSOUT identifier.

### **SELECT (SEL)**

Selects a specific output for display.

## CONFIRM Command

To enable the display of the Confirm Delete panel when the Delete Selection Code is entered, enter *CONFIRM ON* on the command line of the panel and press Enter.

For example:

Command ==> CONFIRM ON

To disable the display of the Confirm Delete panel when the Delete Selection Code is entered, enter *CONFIRM OFF* on the command line of the panel and press Enter.

For example:

Command ==> CONFIRM OFF

To bypass display of subsequent Confirm Delete panels, enter any nonblank character in the Set delete confirmation off field on the Confirm Delete panel.



## LOCATE Command

To locate an entry, enter *LOC xxxxxxxx* or *L xxxxxxxx* on the command line of the panel and press Enter.

For example:

Command ==> LOC xxxxxxxx

where xxxxxxxx specifies the SYSOUT you want to find. If the specified entry is not in the list, CA View scrolls to the entry that immediately precedes the specified entry.

Specifies the 1- to 32-character name of either a SYSOUT group or a report.

**Note:** If the ID contains quotes, spaces, or parentheses, it must be enclosed in single quotes. Any single quote in Report-id must be entered as a pair of single quotes because a non-paired single quote ends the ID. For example, if the value were JIM'S REPORT it must be entered as 'JIM'S REPORT'.

## SELECT Command

To select a DIST ID for display of the SYSOUT IDs linked to it in the Distribution Definition Specifications panel, enter *SEL xxxxxxxx* or *S xxxxxxxx* on the command line of the panel and press Enter to display the Distribution Definition Specifications panel.

For example:

Command ==> SEL xxxxxxxx

Where

xxxxxxx specifies the DIST ID you want to display.

## Distribution Definition Specifications Panel

This panel allows you to establish a list of one or more SYSOUT IDs for a selected DIST ID:

```

CA View SAR ----- Distribution Definition Specifications   Row 00001 of 00002
Command ==>                                           Scroll ==> PAGE

  ID    ---> EGLASSM
  Desc  ==>

  Sysout Specifications:
Sel Sysout ID                Rview Reprt Del
*                            Y    Y    Y
  SWILSONA-R1                Y    Y    Y
***** BOTTOM OF DATA *****
    
```

The following table describes the data provided in the Distribution Definition Specifications panel:

Data Given	Column Name	Description
DIST ID	ID	Specifies a distribution ID.
Description	Desc	Specifies 1- to 40-character description of specified distribution ID.
SYSOUT identifier	Sysout ID	Specifies a 1- to 32-character SYSOUT ID linked to the distribution ID. This can be a wildcard specification (for example, A* is SYSOUT that starts with the letter A).
View restriction indicator	Rview	Specifies whether this is a secured view that requires clearance to access.
Reprint indicator	Reprt	Indicates whether the specified SYSOUT can be reprinted in SAR mode by the DIST ID to the left. This one-character field can be specified as either: Y Both conditions apply N Neither condition applies
Deletion indicator	Del	Indicates whether the specified SYSOUT can be deleted in SAR mode by the DIST ID mentioned previously. Y Both conditions apply

Data Given	Column Name	Description
	N	Neither condition applies

## Selection Codes and Descriptions

The following table explains valid selection codes for Sysout Definition Specifications:

Action	Code	Description
After	A	Specifies the line after which data is to be moved or copied.
Before	B	Specifies the line before which data is to be moved or copied.
Copy entry	C	Specifies a single SYSOUT ID line to be copied. Use C with selection code A or B.
Copy block	CC	Specifies a block of lines of SYSOUT IDs to be copied, identified with a pair of CCs specifying beginning and ending points. Use CC with selection code A or B.
Copy lines	<i>Cn</i>	Specifies the first of <i>n</i> number of lines to be copied. Use <i>Cn</i> with selection code A or B.
Delete	D	Specifies the SYSOUT ID line and all references to it.
Delete block	DD	Specifies a block of SYSOUT ID lines to be deleted, identified with a pair of DDs specifying beginning and ending points.
Delete lines	<i>Dn</i>	Specifies the first of <i>n</i> number of lines to be deleted. Use <i>Dn</i> with selection code A or B.
Insert after	I	Specifies the line after which a blank line is to be inserted.
Insert lines	In	Specifies the line after which <i>n</i> number of blank lines is to be inserted.
Move data	M	Specifies a single line to be moved. After being moved, the entry exists only at its new location. Use M with selection code A or B.
Move block	MM	Specifies a block of lines to be moved. After being moved, the entries exist only at their new location; use with selection code A or B.

Action	Code	Description
Move lines	<i>Mn</i>	Specifies the first of <i>n</i> number of lines to be moved. After being moved, the entries exist only at their new location.
Insert prior	P	Specifies the line before which a blank line is inserted.
Insert lines prior	<i>Pn</i>	The line before which <i>n</i> number of blank lines are inserted.
Repeat	R	Specifies a single line to be repeated.
Repeat block	RR	Specifies a block of lines to be repeated, identified with a pair of RRs specifying beginning and ending points.

## Use the Distribution Definition Specification Panel Commands

The following commands are available for use in the Distribution Definition Specifications:

### **CANCEL**

Cancels the current display without saving any changes made after you entered the display.

### **COPY**

Copies the SYSOUTs from another DIST ID.

## CANCEL Command

To cancel the current display without saving any of the changes made after you entered the display, enter *CANCEL* on the command line of the Distribution Definition Specifications panel and press Enter.

For example:

Command ==> CANCEL

Enter the END command to end the display while saving current changes.

## COPY Command

To copy the SYSOUTs from another DIST ID, enter `COPY xxxxxxxx` on the command line of the Distribution Definition Specifications panel and press Enter.

For example:

Command ==> `COPY xxxxxxxx`

Where

`xxxxxxx` specifies the DIST ID from which you want to copy data.

## Define SYSOUTS and DIST IDs in Batch

**Note:** You can add and modify SYSOUT and DIST ID definitions to the CA View database in batch mode. If you have a large number of SYSOUTs or DIST IDs to add or modify, use batch mode, because online mode allows you to add or modify only one definition at a time.

The DEFSYS and DEFDIST control statements of the SARBCH utility add and modify SYSOUT/DIST ID relationships to the database.

**Note:** For more information about batch commands, see SARBCH in the *Reference Guide*.

## View Database Statistics Online

You can view online statistics about the total number of SYSOUTs defined to the database, the number of SYSOUTs and lines on disk, and database use.

Enter *STATUS* in the command line of any primary Selection panel to display the Database Status panel.

The following is the Database Status panel for ALL mode:

CA View ALL ----- Database Status -----	
Command ==>	
Total	
Sysouts	---> 5746
On Disk	
Sysouts	---> 5666
Lines	---> 12,442,547
Percentage Usage	---> 98
Index	
Percentage Allocated	---> 74
Instructions:	
Press ENTER to refresh or enter END command to return.	

## Field Descriptions

The following table describes the data provided in the Database Status Panel:

Data Given	Column Name	Description
The total number of SYSOUTS defined to the database	Total Sysouts	Specifies the number of SYSOUTS in this database. The total includes all SYSOUTS on regular disk, optical disk, and tape.
The number of SYSOUTS on disk	Sysouts on Disk	Specifies the number of SYSOUTS on disk for the database.
Number of Lines on disk	Lines on Disk	Specifies the number of Lines of SYSOUT and reports on disk for the database.
Percentage of database utilization (Disk)	Percentage usage on Disk	Indicates the percentage of the space allocated for the database that has been used by the database.

Data Given	Column Name	Description
Percentage of database allocated (Index)	Index Percentage allocated	Indicates the percentage of total space allocated.  <b>Note:</b> For databases versioned at a pre-r11.6 level, the percentage does not include the number of FREE index blocks available. Use the SARDBASE utility STATUS FULL, STATUS INDEX, or STATUS USED to determine a more accurate index usage percentage.

## Actions to Take on the Database

When your percentage utilization reaches 80-90%, consider increasing the size of the database with the ADDDS control statement of the SARDBASE utility.

**Note:** For more information about SARDBASE, see the *Reference Guide*.

## Initialize the Values for the Database Status Panel

The values displayed in the Database Status panel are initialized for a database as follows:

- With the SARDBASE SET control statement
- With the SARDBASE VERIFY control statement
- By SARINIT when it processes a new database

**Note:** For more information about SARDBASE and SARINIT, see the *Reference Guide*.

## Define and Add Output Devices

If you have master authority, the Device Definition facility enables you to define CA View system output devices such as:

- Printers
- Printer subsystems
- Personal computers for downloading archived data sets

## Define Devices

To use the Define Device Definition Facility, do the following:

- Enter *DEF DEV* on the command line of any primary Selection panel and press Enter to display the Device Definition Selection List.

For example:

Command ==> DEF DEV

```
CA View SAR ----- Device Definition Selection List -----
Command ==>                                                    Scroll ==> PAGE

   Device
Sel  Synonym           Type      Real Device Name
   CMA                CA SPOOL XYA
   ERIC               PC        ERICSPC
*****
***** BOTTOM OF DATA *****
```

- Enter *S* in the SEL column next to the device you want to define and press Enter to display the Device Attributes panel.



## Add a Device Definition

To add a device definition to CA View, do the following:

- Enter *SEL xxxxxxxx* or *S xxxxxxxx* on the command line of the Device Definition Selection List and press Enter to display the Device Attributes panel.

For example:

Command ==> SEL xxxxxxxx

where

xxxxxxx specifies the device name.

- Enter the device values and press Enter.

The following is an example of a panel that has been accessed through SAR mode:

```

CA View SAR - ----- Device Definition Selection List -----
Command ==>                                                    Scroll ==> PAGE

  Device
Sel Synonym          Type      Real Device Name
CMA                  CA SPOOL XYA
ERIC                 PC      ERICSPC
ERIC2                JES
ERIC3                EXTERNAL >D
EXT                  EXTERNAL >EXP1.A
JORGEM               VPO     T1676A03
JORGEP               VPO     T1676A03
SCOTT                VPO     T05F
*****
***** BOTTOM OF DATA *****
    
```

Use the Device Definition Selection List to establish a list of one or more system output devices.

## Field Descriptions

The following table describes the data provided in the Device Definition Selection List:

Column Name		
Data Given		Description
Device	Device	Specifies your installation's device name.
Synonym	Synonym	This can be any 12-character alphanumeric name. The device synonym is provided to allow names that are meaningful to your systems' users.
Message area		Contains messages about your device synonym.
Device type	Type	Indicates the device type which can be one of the following keywords:

Column Name		
Data Given		Description
	C CA SPOOL	For printing using CA Spool
	J JES	For printing using a JES printer
	E EXTERNAL	For printing using the external print facility
	V VPO	For printing using the VTAM Print Option
Real device name	Real Device Name	Indicates the actual address on your system of the output device. Example: T05F

## Use Selection Codes When Defining Devices

To select an output device in the Device Definition Selection List, place a one-character selection code in the SEL column on the line in which your output appears and press Enter.

The following table describes the selection codes that are valid for use in the Device Definition Selection List:

Action	Selection Code	What the Product Does
Delete	D	Deletes the device synonym and all references to it.
Rename	R	Renames the device synonym and changes all references to it for the new name.
Display Device	S	Displays the attributes of the selected device.

## Use the Define Device Input Commands

The input commands available for use in the Device Definition Selection List are as follows:

### **CONFIRM**

Enables or disables display of the Delete Confirmation panel.

### **LOCATE (LOC)**

Locates the specified output device.

### **SELECT (SEL)**

Selects a specific output for display.

## CONFIRM Command

To enable the display of the Delete Confirmation Panel when the Delete Selection Code is entered, enter *CONFIRM ON* on the command line of the panel and press Enter.

For example:

```
Command ==> CONFIRM ON
```

To disable the display of the Delete Confirmation Panel when the Delete Selection Code is entered, enter *CONFIRM OFF* on the command line of the panel and press Enter.

For example:

```
Command ==> CONFIRM OFF
```

To bypass display of subsequent Confirm Delete panels, enter any nonblank character in the Set delete confirmation off field on the Confirm Delete panel.

## LOCATE Command

To locate an entry, enter *LOC xxxxxxxx* or *L xxxxxxxx* on the command line of the panel, and press Enter.

For example:

```
Command ==> LOC xxxxxxxx
```

Where

*xxxxxxx* specifies the character string you want to find. If the specified entry is not in the list, CA View scrolls to the entry that immediately precedes the specified entry in alphabetical order.

## SELECT Command

To select an output device for a display of its attributes, enter *SEL xxxxxxxx* on the command line of the panel and press Enter.

For example:

Command ==> SEL xxxxxxxx

Where

xxxxxxx specifies the device synonym you want to display.

When you enter the Select command or the S selection code in the Device Definition Selection List, the appropriate Device Definition Specification panel is displayed.

These panels allow you to establish attributes for your selected device synonym. Each of the three corresponds to one of the types of output devices available through the product. The following indicates the panels that are available when you select a specific device type from the Device Definition Selection List:

### **CA SPOOL**

Displays CA Spool Device.

### **EXTERNAL**

Displays External Print Device.

### **JES**

Displays JES Printer Device.

### **VPO**

Displays VTAM Device.

## Define CA Spool Printer Attributes

This panel allows you to establish all the attributes necessary for CA View to identify your CA Spool output device by synonym name. The following is an example of this panel:

```

CA View SAR ----- CA Spool Device Attribute Panel -----
Command ==>
Device Synonym ----> CMA
Real Device      ==> XYA
User Exit       ==>
Subsystem ID    ==>
Auto-Delete    ==> N
Max Lines      ==>
Retain Time    ==>
Use Sysout-ID  ==> N
As Owner (Y/N)

*- Use CA View Value (Y/N) *- Use Value Below -*
CLASS ==>          CLASS ==>
COPY  ==>          COPY  ==>
FCB   ==>          FCB   ==>
FORM  ==>          FORM  ==>
HOLD  ==>          HOLD  ==>
    
```

To display the CA Spool Device Attribute panel, select a CA Spool device from the Device Definition Selection List.

Besides the fields shown in the previous panel, the following fields are also passed to the CA Spool interface:

- CHARS
- FORMDEF
- LINECT
- PAGEDEF
- PRMODE
- TRC

### Field Descriptions

The following table describes the data provided in the CA Spool Device Attribute panel:

Data Given	Column Name	Description
Device name	Device Synonym	Specifies your selected device synonym.
Real device name	Real Device	Specifies the actual CA View system device address.
User exit	User Exit	Specifies an optional user exit for the device synonym mentioned previously.

Data Given	Column Name	Description
Subsystem identifier	Subsystem ID	<p>Specifies an optional CA Spool subsystem interface name.</p> <p>This name, if specified here, overrides the CMASPOOL SARINIT parameter.</p>
Auto-delete indicator	Auto-Delete	<p>Specifies whether the product is to automatically purge the file if it is empty when the file is closed.</p> <p>This one-character field can be either of the following options:</p> <p>Y        Automatically purges the file</p> <p>N        Does not automatically purge the file</p>
Maximum number of lines	Max Lines	<p>Specifies the maximum number of lines that can be printed online. Valid values for this optional field are 1 to 16,777,215.</p> <p><b>Note:</b> If this value is not coded, the value of CMAMAX is used, if CMAMAX is coded as zero, the online value of OUTLIM is used, if the online value of OUTLIM is coded as zero, there is no limit to the number of lines that can be printed online.</p>
Retain time	Retain Time	<p>Specifies the maximum number of hours CA Spool retains the file after it is printed.</p> <p>Valid values for this optional field are 1 to 4095.</p>
Use the CA View SYSOUT ID as the owner name	Use CA View Sysout ID as Owner	<p>Specifies whether the CA View system uses the CA View SYSOUT ID of the output being printed as the CA Spool owner name.</p> <p>This one-character field can be either of the following options:</p> <p>Y        Uses the SYSOUT ID</p> <p>N        Does not use the SYSOUT ID</p>
Use CA View Print Attribute panel values	Use CA View Value	<p>Specifies whether the field values in the box should be taken from the CA View Print Attribute Panel for the SYSOUT ID, instead of the CA Spool default values.</p> <p>These one-character fields can be specified as either of the following options:</p> <p>Y        Takes the value for the field from the CA View Print Attribute panel</p>

Data Given	Column Name	Description
		<p>N Specifies that the value for the field is not taken from the CA View Print Attribute panel</p> <p>These fields are mutually exclusive with the fields of the same name in the adjacent Use Value Below column. (Do <i>not</i> specify the same field twice in these columns).</p>
Use values specified in this box	Use Value Below	<p>Specifies that the field values in the box be used instead of the CA Spool default values as follows:</p> <p>CLASS For the output print class</p> <p>COPY For the FCB image name</p> <p>FCB For the FCB image name</p> <p>FORM For the form number</p> <p>HOLD Takes the value for the field from the CA View Print Attribute panel</p> <p>These fields are mutually exclusive with the fields of the same name in the adjacent Use CA View Value column. (Do <i>not</i> specify the same field twice in these columns.)</p>

## Define External Printer Attributes

This panel allows you to establish all the attributes necessary for CA View to identify your EXTERNAL printer by synonym name. The following is an example of this panel:

```

CA View SAR ----- External Print Device Attribute Panel -----
Command ==>

Device Synonym      ---> ERIC3
External Print Parameter ==> Pid
(Real Device Name)
    
```

To display the External Print Device Attribute panel, select an EXTERNAL device from the Device Definition Selection List.

## Field Descriptions

The following table describes the data provided in the External Print Device Attribute panel:

Data Given	Column Name	Description
Device name	Device Synonym	Specifies your selected device synonym.
Real device name	External Print Parameter (Real Device Name)	Specifies the three-character printer ID (as defined with a EXTPRTn initialization parameter).

## Define JES Printer Attributes

This panel allows you to establish all the attributes necessary for CA View to identify your JES printer by synonym name.

The JES printer prints through JES or CA Spool, depending on the value of the PRINTO SARINIT parameter.

A sample panel follows:

```

CA View SAR ----- JES Printer Device Attribute Panel -----
Command ==>

Device Synonym ---> ERIC2

Real Device ==>

Print Banner?          ==> YES      ( YES OR NO )
Connect Node?          ==> NO       ( YES OR NO )
AFP Resources Only?    ==> NO       ( YES OR NO )
AFP Data Only?         ==> NO       ( YES OR NO )
    
```

To display the JES Printer Device Attribute panel, select a JES device from the Device Definition Selection List.



## Field Descriptions

The following table describes the data provided in the JES Printer Device Attribute panel:

### Device Synonym

Specifies your selected device synonym.

### Real Device

Specifies the actual CA View system device address.

### Print Banner?

Specifies whether to print the CA View banner page.

### Connect Node?

Specifies whether to print to a CA Connect node.

### AFP Resources Only?

Downloads only the resources of an AFP report.

### AFP Data Only?

Downloads only the report data of an AFP report.

## Define VTAM Attributes

The following panel allows you to establish all the attributes necessary for CA View to identify your VTAM printer by synonym name:

```

CA View SAR ----- VTAM Device Attribute Panel -----
Command ==>

Device Synonym ---> JORGEM

Real Device   ==> T1676A03

User Exit     ==>

VTAM Logmode  ==>

Max Lines    ==> 20050
Online

Auto New Line ==> N      (add new-line even if data is 132 chars long)

Driver Name   ==>

```

To display the VTAM Device Attribute panel, select a VTAM device from the Device Definition Selection List.

## Field Descriptions

The following table describes the data provided in the VTAM Device Attribute Panel:

Data Given	Column Name	Description
Device name	Device Synonym	Specifies your selected device synonym.
Real device name	Real Device	Specifies the actual CA View system device address.
User exit	User Exit	Specifies an optional user exit for the device synonym mentioned previously.
VTAM logmode	VTAM Logmode	Specifies an optional VTAM logmode for the device synonym mentioned previously.
Maximum number of lines online	Max Lines Online	<p>Specifies the maximum number of lines that can be printed online. Valid values for this optional field are 1 to 16,777,215.</p> <p><b>Note:</b> If this value is not coded, the value of VPRTMAXO is used, if VPRTMAXO is coded as zero, the online value of OUTLIM is used, if the online value of OUTLIM is coded as zero, there is no limit to the number of lines which can be printed on-line.</p> <p>This field, if specified, overrides the VPRTMAXO SARINIT parameter.</p>
Automatically add a new line	Auto New Line	<p>Specifies whether CA View is to automatically add a new-line command at the end of data set lines that are 132 characters long, as well as at the end of all other lines.</p> <p>This one-character field can be either of the following:</p> <p>Y     Adds a new-line command</p> <p>N     Does not add a new-line command</p>
Device driver name	Driver Name	Specifies the name of the special device driver needed to print on the device synonym mentioned previously.

## Define Logical Views

If you have master authority, the Define View facility allows you to create and maintain public and global logical view definitions. Logical view definitions customize the way the product displays SYSOUT or a report by allowing you to manipulate the columns of a report, define column headings, assign colors to those columns or headings, and alternate colors throughout a report to make the report more readable. Also, logical view definitions define the criteria to extract index data from the SYSOUT or report.

The Define View facility provides added flexibility over the VIEW command in browse mode by allowing you to predefine logical view definitions and create global logical view definitions.

Global logical view definitions allow a single logical view definition to be used across many reports. These global logical view definitions are denoted by an asterisk (\*) suffix on the SYSOUT ID.

## Access the View Selection List

To access the View Selection List panel, enter *DEF VIEW* on the command line of your primary Selection panel.

For example:

Command ==> DEF VIEW

Press Enter to display the View Selection List.

```

CA View ALL ----- View Selection List -----
Command ==>                                         Scroll ==> HALF

Sel View ID                Num Acc Description
-   A125*                   001 GBL ACCOUNTING REPORT #123 - VIEW
-   A125*                   002 GBL ACCOUNTING REPORT #123 - FILTE
-   A125*                   003 GBL ACCOUNTING REPORT #123 - (DIVI
-   A125*                   004 GBL ACCOUNTING REPORT #125 - (DEPT
-   A238CRPT                001 PUB ACCOUNTING COST REPORT - FILTE
-   A238CRPT                002 PUB ACCOUNTING COST REPORT - (DIVI
-   A238CRPT                003 PUB ACCOUNTING COST REPORT - (COST
-   A482CRPT                001 PUB ACCOUNTING COST REPORT FILTERE
-   A432CRPT                002 PUB ACCOUNTING COST REPORT - (DIVI
-   A432CRPT                003 PUB ACCOUNTING COST REPORT - (COST
-   C346PRPT*               001 GBL CORPORATE PROFIT REPORT - SECU
-   C346PRPT*               002 GBL CORPORATE PROFIT REPORT - FILT
-   C346PRPT*               003 GBL CORPORATE PROFIT REPORT - VIEW
-   C346PRPT*               004 GBL CORPORATE PROFIT REPORT - (DIV
-   C346PRPT*               005 GBL CORPORATE PROFIT REPORT - (REG
-   C346PRPT*               006 GBL CORPORATE PROFIT REPORT - (SUM
-   D711PROD*               001 GBL DIVISION REPORT - FILTERED
-   D711PROD*               002 GBL DIVISION REPORT - SPECIAL FORM
-   D711PROD-R1             003 PUB DIVISION REPORT #1 - SECURED
-   D711PROD-R1             004 PUB DIVISION REPORT #1 - INDEXED
    
```

To access a logical view definition, use one of the following options:

- Enter a selection code in the Sel column to the left of the desired entry.
- Enter a command in the input command area.

To reposition the data in the selection list, use the standard scroll commands.

## Field Descriptions

The following table describes the data provided in the View Selection List.

Data Given	Column Name	Description
View ID	View ID	Identifies the name of the logical view.

View number	Num	Indicates the number of the logical view (from 1 to 255).
View access type	Acc	Indicates the type of logical view. The view type can be one of the following: PUB          Private logical view GBL          Global logical view
View description	Description	Contains a description of the logical view.

## Selection Codes for View Selection List

To access a logical view definition in the View Selection List, enter a one-character selection code in the SEL column on the line in which the view ID appears and press Enter.

## Selection Codes and Descriptions

The following table lists and describes the selection codes you can use in the View Selection List.

Action	Selection Code	What the Product Does
Delete	D	Deletes the logical view definition and all references to it. A delete confirmation panel appears if confirmation is set to ON.
Display View	S	Displays the View Definition panel for the selected view ID.

## Use the View Selection List Input Commands

The input commands available for use on the View Selection List are as follows:

### **CONFIRM**

Enables or disables display of the Delete Confirmation panel.

### **LOCATE (LOC)**

Locates the specified logical view.

### **REDISP (RED)**

Refreshes the display of logical views on the View Selection List.

### **SELECT (SEL)**

Selects a specific logical view definition for display, modification, or both.

## CONFIRM Command

To enable the display of the Confirm Delete panel when deleting a logical view definition, enter *CONFIRM ON* on the command line of the View Selection List, and then press Enter.

For example:

```
Command ==> CONFIRM ON
```

To disable the display of the Confirm Delete panel when deleting a logical view definition, enter *CONFIRM OFF* on the command line of the View Selection List and press Enter.

For example:

```
Command ==> CONFIRM OFF
```

The default is *CONFIRM ON*.

To bypass display of subsequent Confirm Delete panels, enter any nonblank character in the Set delete confirmation off field on the Confirm Delete panel.

## LOCATE Command

To locate a logical view in the View Selection List, do the following enter *LOCATE view-id view-number* on the command line and press Enter.

The view-number field is optional.

For example:

```
Command ==> LOC PAYRPT
```

If the specified logical View ID is not in the list, CA View scrolls to the entry that immediately precedes the specified identifier.

**Note:** If the ID contains quotes or spaces, it must be enclosed in single quotes. Any single quote in Report-id must be entered as a pair of single quotes because a non-paired single quote ends the ID. For example, if the value were JIM'S REPORT it must be entered as 'JIM'S REPORT'.

## REDISPLAY Command

Because many users can be creating, updating, and deleting logical view definitions simultaneously, the logical view data presented on the View Selection List can contain outdated information. The redisplay command refreshes the selection list data by rereading the logical view data from the database.

To refresh the display of logical views presented on the View Selection List, enter *REDISP* on the command line and press Enter.

For example:

```
Command ==> REDISP
```

You can cause a redisplay to occur automatically when you press Enter, by doing one of the following actions:

- Set the REDISP initialization parameter to YES.
- Enter *REDISP YES* or *REDISP ON* on the command line of the View Selection List.

To turn off the redisplay option, use one of the following options:

- Enter *REDISP NO*.
- Enter *REDISP OFF*.

The REDISP initialization parameter sets a default for all users, and the online REDISP command allows each user to alter the function for the online session.

## SELECT Command

To select an existing logical view definition for display or to create a new logical view definition, enter *SELECT view-id view-number* on the command line and press Enter.

If a new logical view definition is being created, the *view-id* and/or *view-number* fields can be omitted and entered later on the View Definition panel.

For example:

```
Command ==> SEL PAYRPT 1
```

This example selects the logical view definition number 1 for PAYRPT.

If the *view-id* specified on the SELECT command does not exist, CA View displays the attributes of a default native browse logical view.



## Access the View Definition Panel

Do one of the following in the View Selection List to display the View Definition panel:

- Enter *S*.
- Enter the *SELECT* command.

```

CA View ALL ----- View Definition -----
Command ==>

View ID      ==> PAYRPT
View Number  ==> 1
Filter Name  ==>
Secured     ==> N (Y/N)

Description  ==>

Display Attributes (Y/N):
  Default View ==> N      Lock Left Column ==> N
  Carriage Controls ==> Y

Data Extraction by Page:
  Pages to Exclude ==>      (Pages are excluded from top of file )
  Records to Exclude ==>    (Records are excluded from top of page)
  Records to Display ==>    (Leave blank for entire page)

To select the following, enter the 1-character code on the command line:
  H - Define primary heading      P - Define page indexing criteria
  C - Define column specifications L - Define color specifications

Enter END command to exit.

```

The View Definition panel displayed from the View Selection List using the Define View facility differs as follows from the View Definition panel displayed in browse mode:

- The View Number and View ID fields are modifiable.
- The Private field has been removed (private views cannot be created within define view).

## Retrieve Logical Views

If the view number or view ID is changed, the logical view definition is not retrieved for the specified logical view; nor is the previously specified logical view renamed. The view number and view ID are maintained with the related logical view information; you can save or replace them in the database by issuing the *SAVE* or *REPLACE* command. A logical view definition can only be retrieved by issuing the *SELECT* command from the View Definition panel, or by backing out of the View Definition panel, and reselecting another logical view from the View Selection List.

### Define Global Views

The View Definition panel also permits the definition of global views. A global view is designated by a View ID with a trailing asterisk (for example, PAY\*). A View ID of asterisk (View ID equal to \*), however, is not acceptable.

These global views are especially useful for reports generated by CA Deliver, where potentially hundreds or thousands of stacked reports are generated from a job or DD statement.

**Note:** For more information about defining a logical view definition, see the chapter "Creating Logical Views."

### Define New Logical Views

**To create a new logical view definition, do the following actions:**

1. Issue the *SELECT* command on the View Selection List.
2. Enter the appropriate logical view attributes, which can include primary heading specifications, column specifications, color specifications, and page indexing criteria on the View Definition panel.
3. Issue the *SAVE* command on the View Definition panel.

When the *SELECT* command on the View Selection List references a new logical view (a logical view that does not currently exist), you are presented with a View Definition panel that contains the attributes of a native browse logical view.

### Replicate Logical Views

**To replicate a logical view definition, do one of the following actions:**

- Select a logical view definition from the View Selection List
- Issue the *COPY* command.

## Change Logical Views

Do one of the following actions to change a logical view definition:

- Select a logical view definition from the View Selection List
- Retrieve a logical view definition with the SELECT command from the View Definition panel, changing the desired view information, and issuing the SAVE command.

Logical view definitions are not automatically saved. If a logical view definition is changed and not saved, a View Confirmation panel is displayed that allows you to SAVE or END without saving the logical view. If a temporary logical view was created, you can enter a specific view number to which the logical view is saved. The END key automatically identifies that the changes are to be ignored. A sample View Definition Confirmation panel follows:

```
CA View ALL ----- Confirm Change -----  
Command ==>  
  
View ID      ==> PAYRPT  
View Number ==> 1  
  
INSTRUCTIONS:  
  
    Press ENTER key to save changes to view definition.  
  
    Enter END command to ignore changes to view definition.
```



# Chapter 10: Displaying and Deleting Database Elements

---

This section describes the Display commands and the Browse commands, and explains how to use these commands to locate, display, and delete elements in the database, including the following options:

- How to use the Display commands on the Display Selection panel
- How to use the Browse commands on the Browse panel
- How to use browse labels to mark records you reference often
- How to display, browse, and delete banner pages in the database
- How to display, browse, and delete online panels in the database

This section contains the following topics:

[Display Command](#) (see page 373)

[Display Selection Panel](#) (see page 374)

[Browse Labels](#) (see page 375)

[Browse Commands](#) (see page 376)

[Display and Delete Banner Pages from the Database](#) (see page 384)

[Display and Delete Online Panels from the Database](#) (see page 387)

## Display Command

The Display command is used to display and delete (but not change) banner pages and online panels in the database.

You enter the Display command on the Primary Selection Menu panel, although the Display command is *not* shown in the panel's list of commands, you can use in this menu.

## Display Selection Panel

The Display Selection panel displays a list of banner pages or online panels that are located in the database.

```
CA View ----- Display Selection Panel -----  
Command ==>  
  
  B - Display selection list of banner pages.  
  O - Display selection list of online panels.  
  
Operand for B,O:  
  Omit operand for complete selection list.  
  Specify identifier or generic identifier for limited selection list.  
  
Enter END command to exit
```

You can enter the following commands on the Display Selection panel:

### **BANNERS**

Displays a list of banner page members that you can browse or delete in the database.

Valid entries are B, BAN, and BANNER.

### **PANELS**

Displays a list of online panel members that you can browse or delete in the database.

Valid entries are O, PAN, PANEL.

### **END**

Saves changes that you have made on the panel, terminates the operation you are currently performing, and returns you to the previous panel.

## Command Stacking

You can stack the DISPLAY command on the command line of the Primary Selection Menu panel with the commands shown on the Display Selection panel.

### **Example**

```
DISPLAY BANNER
```

Displays a complete list of banner page members in your database.

When you enter this command stack on the command line of the Primary Selection Menu panel, a complete list of banner page members in your database is displayed.

## Browse Labels

When you display a banner page or panel member, you can assign and reassign labels to records in the member as points of reference and search for text strings.

A *label* is a moveable tab that marks a specific record in a member you have displayed and are browsing. Use a label to mark a record you expect to reference often.

### Example

```
.TAB1
```

### More information:

[Browse Commands](#) (see page 376)

## Rules for Specifying Labels

When specifying labels, note the following conditions:

- A period must precede a label.
- A label can have 1–7 characters.
- You can specify more than one label per record.
- You can override a label by creating a label with the same name as the existing label.
- You can specify and use labels only as long as you are browsing a member. Labels are discarded when you stop browsing the member.

## Set a Label

You can set a label to a record in a member.

Follow these steps:

1. Go to the record where you want to set a label. (Be sure that the record is the first one shown at the top of the Browse panel).
2. Enter *.label* on the command line, and press Enter.

Where:

*.label* represents the actual name of the label you want to use. The label you specify is set to the first record at the top of the Browse panel.

Commands that you can use to move around in a member are described later.

## Browse Commands

The Browse panel displays when you enter the BANNERS or PANELS command on the command line of the Display Selection panel.

The following descriptions define the commands that you can enter on the command line of the Browse panel.

### **Col**

Displays column numbers at the top of a banner or online panel member.

Valid entries are as follows:

#### **Col, ColS**

Displays column numbers

#### **Col OFF**

Turns off the display of column numbers

**Note:** You can also use RESET to turn off column numbers.

### **DOWN**

Scrolls down the distance that is defined by the scroll field.

### **FIND**

Finds and displays the next instance of a character string in a member.

When a string is found, it is highlighted and the cursor is placed at the first character.

### **HEX**

Displays data in a member in hexadecimal format underneath standard EBCDIC format.

Hexadecimal data is shown vertically; you can insert a dash separator to improve legibility.

#### **HEX**

Turns on hexadecimal format

#### **HEX OFF**

Turns off hexadecimal format

Example of hexadecimal data:

-----

ABCDEF - 0123456EBCDIC

CCCCC464FFFFFFFCCCCC

1234560000123456523493



-----  
The first record of hexadecimal data contains the left digits of the two-digit hexadecimal representation of the EBCDIC characters.

The second record contains the right digits.

**LEFT**

Scrolls left a distance that is defined by the scroll field.

**LOCATE**

Goes to and displays a specific record or page in a member

Valid entries are LOCATE, LOC, and L.

Syntax: LOCATE parameter

Where parameter is one of the following values:

- An absolute record number (specify 0 to go to the top of a member and 999999 to go to the bottom of a member)
- A (signed) record number relative to the record at which the cursor is now located
- A previously assigned label

Examples:

LOC 450      Goes directly to record 450

LOC +20      Goes down 20 records

LOC .ERR      Goes to a record labeled .ERR

**RESET**

Turns off the display of column numbers.

Valid entries are RESET and RES.

**RFIND**

Searches for the same text string you specified when you last issued the FIND command.

**RIGHT**

Scrolls right the distance that is specified by the scroll field.

**UP**

Scrolls up the distance that is specified by the scroll field.

## FIND Browse Command

Use the FIND browse command to find and display an instance of a character string in a member you are browsing.

## Syntax

FIND parameter-string col-delimiter indicator limit-parameter

Where:

*parameter-string* represents one of the parameters described in the following table.

### **Asterisk (\*)**

Searches for the same string used when you last issued the FIND command.

Example: FIND \*

**Note:** FIND \* is functionally equivalent to the RFIND command described later.

### **Quoted string**

Searches for a string that includes special characters or blanks.

Enclose the text string for which you want to search in either single or double quotation marks.

Example: FIND "go to"

The example, FIND '\*', finds an asterisk.

### **Hexadecimal string**

Searches for a string of hexadecimal characters enclosed in single or double quotation marks.

Example: FIND X'00'

You must specify only hexadecimal characters (0–9 and A–F), and you must specify an even number of characters.

You can specify the hexadecimal identifier X before or after the hexadecimal string of characters (enclosed in quotation marks).

Example: FIND "FFFF"X

### **Picture string**

Searches for a character or string that is represented by one or more of the following placeholders:

- = equal sign--any single character
- @ at sign--alphabetic characters
- # pound sign--numeric characters
- \$ dollar sign--special characters
- ~ logical not--non-blank characters
- . period--invalid display characters
- minus sign--non-numeric characters
- < less than--lowercase alphabetic characters

> greater than--uppercase alphabetic characters

You can specify the picture string identifier P before or after the picture string of characters (enclosed in quotation marks).

Examples:

**FIND P'.'**

Finds any invalid display character

**FIND P'###'**

Finds 123 as well as other 3-digit numbers, but not A23

**FIND '@1'P**

Finds A1, B1, but not A2, B3, and so on

### Text string

Represents a text string that is not case-sensitive.

You can specify the text string identifier T before or after the text string of characters (enclosed in quotation marks).

Example:

**FIND T'Total'**

Finds the text strings TOTAL, Total, and total, as well as TOTALS, Totals, and totals

You can omit the text string identifier T as shown in the example. This version of the FIND command works the same as the simple FIND command. (FIND T'This' and FIND This are functionally the same).

This version of FIND performs a case less search, that is, it ignores differences in case, treating 'This', 'THIS', and 'this' the same.

### Character string

A case-sensitive text string.

You can specify the text string identifier C before or after the text string of characters (enclosed in quotation marks).

This version of FIND performs a case--sensitive search, that is, it recognizes differences in case, treating 'This', 'THIS', and 'this' as three different text strings.

Example:

**FIND C'Total'**

Finds only the text strings Total and Totals, but not TOTAL, total, TOTALS, totals

Where

*col-delimiter* (in the preceding syntax) represents a single column or a set of optional columns to search for a text string. The following results are achieved depending on how you specify column numbers.

**Do not specify column numbers**

Searches every complete record in the member

Example:

**FIND DATE**

Finds all instances of 'DATE' in all records

**Specify a single column number**

Searches only that single column in the member

Example:

**FIND P'=@1' 1**

Finds labels .A1, .B1, .C1, and so on, in the first column of every record

**Specify a couple of column numbers, separated by a space**

Searches only those columns in the member between those you specified (inclusive)

Example:

**FIND '!P 73 80**

Finds invalid characters only in columns 73–80

Where

*indicator* (in the preceding syntax) represents an optional navigation and restriction parameter. The parameter allows you to specify the direction to search or restrict the number of instances you want to find, as summarized in the following table.

**NEXT**

Finds the next instance of the text string you specify, either from the current cursor position (if the cursor is shown in the contents of a member) or from the top of the member (if the cursor is not shown in the contents of a member).

Example: FIND A365 NEXT

You do not need to specify NEXT, as text is searched in this direction by default.

**PREV**

Finds the previous instance of the text string you specify, either from the current cursor position (if the cursor is shown in the contents of a member) or from the top of the member (if the cursor is not shown in the contents of a member).

Example: FIND 2365 PREV

**FIRST**

Finds the first instance of the text string you specify, from the first record in a member until the text string is found, or until the last record in the member is reached.

Example:

**FIND P.' 73 80 FIRST**

Finds the first instance of an invalid display character between columns 73 and 80

**LAST**

Finds the last instance of the text string you specify, from the last record in a member until the text string is found, or until the first record in the member is reached.

Example:

**FIND '.P LAST**

Finds the last instance of an invalid display character anywhere

**ALL**

Finds all instances of the text string you specify, from the first record in a member until all text strings are found, or until the last record is reached.

Example:

**FIND '.P ALL**

Finds all instances of an invalid display character in all columns

If more than one instance of the text string you specify is found, the total number is displayed, the first text string found is highlighted, and the cursor is placed on its first character.

Where:

*limit-parameter* represents an optional parameter that allows you to restrict a search to only specific characters at the beginning or end of a word, any characters within a word, or only a complete word, as summarized in the following table.

**CHARS**

Searches for any instance of a text string within a word

Example:

**FIND DO CHARS**

Finds DO, DON'T ADO, ADOPT, 'DO', (DON'T), and ADO

**PREFIX**

Searches for specific instances of a text string at the beginning of a word only.

Example:

**FIND DO PREFIX**

Finds only DO, DON'T, 'DO', and (DON'T), but not ADO, ADOPT, and ADO

**SUFFIX**

Searches for specific instances of a text string at the end of a word only.

Example:

**FIND DO SUFFIX**

Finds only ADO, 'DO', and ADO-, but not DO, DON'T, ADOPT, and (DON'T)

**WORD**

Searches for a complete word only.

Example:

**FIND DO WORD**

Finds only DO and 'DO', but not DON'T, ADO, ADOPT, (DON'T), and ADO-

**More information:**

[RFIND Browse Command](#) (see page 383)

## Syntax Rules

Note the following conditions when using the FIND browse command:

- You can specify FIND command parameters (parameter strings, column delimiters, indicators, and limit parameters, which are described in this chapter) in any order.
- You can separate FIND command parameters by either spaces or commas.
- You can enclose text strings that you want to find in single quotation marks or double quotation marks.
- Always enclose text strings that contain special characters, such as an asterisk or a blank, in quotation marks.

**Examples**

In the following examples (which are all functionally equivalent), the user wants to find the suffix TION between columns 20 and 40 (inclusive):

```
F TION PREV SUFFIX 20 40
FIND PREV SUFFIX "TION" 20 40
F 'TION' 20,40 SUFFIX PREV
FIND 20,40,PREV,SUFFIX,TION
F PREV 20 40 'TION' SUFFIX
```

## RFIND Browse Command

You can use the RFINd browse command to search for the same text string you specified when you last issued the FIND browse command.

**Syntax**

RFINd

## Display and Delete Banner Pages from the Database

1. Enter *DISPLAY* on the command line of the Primary Selection Menu panel.

**Note:** You can also enter DISP or DI.

```
CA View ALL --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Sysout ID   ==> *
Select by   ==> R                (R, I, IL, or IR)
Index Name  ==>                Value ==>
            ==>                ==>
            ==>                ==>
            ==>                ==>

Selection Criteria:
  Generation ==> *                (*, ALL, specific (n), relative (-n),
                                range (n:m or -n:m))

  Date       ==>                (specific (mm/dd/yyyy), relative (-n),
                                range(mm/dd/yyyy:mm/dd/yyyy or -n:m))

Selection Options:  Only specify to restrict selection
Exceptions ==>     X exceptions only, NX non exceptions only, AX/(blank) any
Permanent   ==>     P permanent only, NP non permanent only, AP/(blank) any

Enter END command to terminate this CA View session.
```

1. Press Enter to display the Display Selection panel.

```
CA View ----- Display Selection Panel -----
Command ==>

B - Display selection list of banner pages.
0 - Display selection list of online panels.

Operand for B,0:
  Omit operand for complete selection list.
  Specify identifier or generic identifier for limited selection list.

Enter END command to exit
```

1. Enter *B* (Banner) on the command line of the Display Selection Panel.



```

CA View ----- Display Selection Panel -----
Command ==> B

B - Display selection list of banner pages.
0 - Display selection list of online panels.

Operand for B,0:
Omit operand for complete selection list.
Specify identifier or generic identifier for limited selection list.

Enter END command to exit
    
```

1. Press Enter to display the Banner Page Selection List panel.

```

CA View ----- Banner Page Selection List ---- Row 00001 of 00004
Command ==>                                     Scroll ==> PAGE

Sel Name      -- Last Modified -- User
DEFAULT 11/03/2013 18:18:40 TBROWN
OLDBAN  11/03/2013 18:18:40 TBROWN
SRPTBAN 11/03/2013 18:18:40 TBROWN
TESTBAN 01/11/2013 08:22:45 JSMITH
***** BOTTOM OF DATA *****
    
```

1. Enter S (Select) in the Sel column on the Banner Page Selection List panel next to banner page TESTBAN.

```

CA View ----- Banner Page Selection List ---- Row 00001 of 00004
Command ==>                                     Scroll ==> PAGE

Sel Name      -- Last Modified -- User
DEFAULT 11/03/2013 18:18:40 TBROWN
OLDBAN  11/03/2013 18:18:40 TBROWN
SRPTBAN 11/03/2013 18:18:40 TBROWN
S TESTBAN 01/11/2013 08:22:45 JSMITH
***** BOTTOM OF DATA *****
    
```

1. Press Enter to display the contents of banner page TESTBAN.

Now you can browse the contents of TESTBAN with any browse command you choose.

2. When you have finished browsing, enter *END* on the command line, and press Enter to refresh the Banner Page Selection List panel.
3. Enter *D* (Delete) in the Sel column on the Banner Page Selection List panel next to banner page member TESTBAN.

```
CA View ----- Banner Page Selection List ---- Row 00001 of 00004
Command ==>                                         Scroll ==> PAGE

Sel Name      -- Last Modified -- User
  DEFAULT  11/03/2013 18:18:40 TBROWN
  OLDBAN   11/03/2013 18:18:40 TBROWN
  SRPTBAN  11/03/2013 18:18:40 TBROWN
  D TESTBAN 01/11/2013 08:22:45 JSMITH
*****
*****          BOTTOM OF DATA          *****
*****
```

1. Press Enter to display the Confirm Delete panel.

```
CA View ----- Confirm Delete -----
Command ==>

Banner Page: TESTBAN

Set delete confirmation off

Press ENTER key to confirm delete request.
Enter END or CANCEL command to cancel delete request.
```

To bypass subsequent displays of Confirm Delete panels, enter any nonblank character in the Set delete confirmation off field. The CONFIRM input command can enable or disable the display of the Confirm Delete panels.

1. Press Enter to delete the banner page member TESTBAN from the database and display the Banner Page Selection List panel.
2. Enter *RETURN* on the command line, and press Enter to display the Primary Selection Menu panel.

## Display and Delete Online Panels from the Database

1. Enter *DISPLAY O* on the command line of the Primary Selection Menu panel.

**Note:** You can also enter DISP O and DI O.

```

CA View ALL --- Primary Selection for VIEW.SYSTEM1 -----
Command ==>

Sysout ID   ==> *
Select by   ==> R                               (R, I, IL, or IR)
Index Name   ==>                               Value ==>
            ==>                               ==>
            ==>                               ==>
            ==>                               ==>

Selection Criteria:
  Generation ==> *                             (*, ALL, specific (n), relative (-n),
                                             range (n:m or -n:m))

  Date       ==>                               (specific (mm/dd/yyyy), relative (-n),
                                             range(mm/dd/yyyy:mm/dd/yyyy or -n:m))

Selection Options:  Only specify to restrict selection
Exceptions ==>     X exceptions only, NX non exceptions only, AX/(blank) any
Permanent   ==>     P permanent only, NP non permanent only, AP/(blank) any

Enter END command to terminate this CA View session.
    
```

1. Press Enter to display the Online Panel Selection List panel.

```

CA View ----- Online Panel Selection List --- Row 00001 of 00400
Command ==>                                     Scroll ==> PAGE

Sel  Name      -- Last Modified -- User
SARJCLB 06/12/2013 18:10:55 JSMITH
SARJCLO 06/12/2013 18:10:55 JSMITH
SARPISDB 05/24/2013 15:19:44 TBROWN
SARPISV2 05/24/2013 15:19:44 TBROWN
SARPTB   05/24/2013 15:19:44 TBROWN
SARPTBA1 05/24/2013 15:19:44 TBROWN
SARPTBA2 05/24/2013 15:19:44 TBROWN
SARPTBB1 05/24/2013 15:19:44 TBROWN
SARPTBC1 05/24/2013 15:19:44 TBROWN
SARPTBDA 05/24/2013 15:19:44 TBROWN
SARPTBDB 05/24/2013 15:19:44 TBROWN
SARPTBDC 05/24/2013 15:19:44 TBROWN
SARPTBDD 05/24/2013 15:19:44 TBROWN
SARPTBDE 05/24/2013 15:19:44 TBROWN
SARPTBDF 05/24/2013 15:19:44 TBROWN
SARPTBDG 05/24/2013 15:19:44 TBROWN
SARPTBDH 05/24/2013 15:19:44 TBROWN
    
```

1. Enter S (Select) In the Sel column on the Online Panel Selection List panel next to member SARJCLO.

```

CA View ----- Online Panel Selection List --- Row 00001 of 00400
Command ==>                                     Scroll ==> PAGE

Sel Name      -- Last Modified -- User
S  SARJCLB    06/12/2013 18:10:55 JSMITH
   SARJCLO    06/12/2013 18:10:55 JSMITH
   SARPISDB   05/24/2013 15:19:44 TBROWN
   SARPISV2   05/24/2013 15:19:44 TBROWN
   SARPTB     05/24/2013 15:19:44 TBROWN
   SARPTBA1   05/24/2013 15:19:44 TBROWN
   SARPTBA2   05/24/2013 15:19:44 TBROWN
   SARPTBB1   05/24/2013 15:19:44 TBROWN
   SARPTBC1   05/24/2013 15:19:44 TBROWN
   SARPTBDA   05/24/2013 15:19:44 TBROWN
   SARPTBDB   05/24/2013 15:19:44 TBROWN
   SARPTBDC   05/24/2013 15:19:44 TBROWN
   SARPTBDD   05/24/2013 15:19:44 TBROWN
   SARPTBDE   05/24/2013 15:19:44 TBROWN
   SARPTBDF   05/24/2013 15:19:44 TBROWN
   SARPTBDG   05/24/2013 15:19:44 TBROWN
   SARPTBDH   05/24/2013 15:19:44 TBROWN
    
```

1. Press Enter to display the contents of online panel member SARJCLO.  
Now you can browse the contents of SARJCLO with any browse command you choose.
2. When you have finished browsing, enter *END* on the command line, and press Enter to display the Online Panel Selection List panel.
3. Enter *D* (Delete) in the Sel column on the Online Panel Selection List next to member SARJCLO.

```

CA View ----- Online Panel Selection List --- Row 00001 of 00400
Command ==>                                     Scroll ==> PAGE

Sel Name      -- Last Modified -- User
D  SARJCLB    06/12/2013 18:10:55 JSMITH
   SARJCLO    06/12/2013 18:10:55 JSMITH
   SARPISDB   05/24/2013 15:19:44 TBROWN
   SARPISV2   05/24/2013 15:19:44 TBROWN
   SARPTB     05/24/2013 15:19:44 TBROWN
   SARPTBA1   05/24/2013 15:19:44 TBROWN
   SARPTBA2   05/24/2013 15:19:44 TBROWN
   SARPTBB1   05/24/2013 15:19:44 TBROWN
   SARPTBC1   05/24/2013 15:19:44 TBROWN
   SARPTBDA   05/24/2013 15:19:44 TBROWN
   SARPTBDB   05/24/2013 15:19:44 TBROWN
   SARPTBDC   05/24/2013 15:19:44 TBROWN
   SARPTBDD   05/24/2013 15:19:44 TBROWN
   SARPTBDE   05/24/2013 15:19:44 TBROWN
   SARPTBDF   05/24/2013 15:19:44 TBROWN
   SARPTBDG   05/24/2013 15:19:44 TBROWN
   SARPTBDH   05/24/2013 15:19:44 TBROWN
    
```

1. Press Enter to display the Confirm Delete panel.

```
CA View ----- Confirm Delete -----  
Command ==>  
  
Panel: SARJCLO  
  
Set delete confirmation off  
  
Press ENTER key to confirm delete request.  
Enter END or CANCEL command to cancel delete request.
```

To bypass subsequent displays of Confirm Delete panels, enter any nonblank character in the Set delete confirmation off field. The CONFIRM input command can enable or disable the display of the Confirm Delete panels.

1. Press Enter to delete the online panel member SARJCLO from the database and display the Online Panel Selection List panel.

Enter *RETURN* on the command line, and press Enter to display the Primary Selection Menu panel.



# Index

---

## ?

? selection code • 90, 100, 131

## 3

3270/AFP browser • 163, 164

    finding pages and text in • 163

    invoking • 163

    limitations of • 164

3800 printers, specifying attributes for • 218, 223, 235

## A

A (annotation) • 190

A selection code • 339, 347

ADD command • 331

ADDRESS print attribute • 235

administration • 326

    and master authority • 326

    menus and commands • 326

administrationAdministration • 325

AFP reports • 49, 295, 361

    and cross indexing • 49

    and cross-report indexing • 295

    and JES printers • 361

ALL mode • 30, 38, 79, 82, 83, 84, 86, 87, 88, 107

    overview of • 30

    Primary Selection panel for • 38

    Sysout Selection List example • 83, 87, 88, 107

    SYSOUT Selection List example for • 82, 84, 86

    Sysout Selection List in • 79

Alternating Color Specification panel • 311

ANNOTATE command • 156, 190

Annotation Definition panel • 194

Annotation/Bookmark Selection List • 157, 192

    displaying • 157

    panel • 192

annotations • 156, 186, 187, 188, 189, 190, 192, 194

    adding • 156

    and deleted reports • 188

    archiving • 188

    creating • 190, 192

    definition of • 186

    deleting • 192

    locating • 192

    locating first occurrence of • 192

    modifying • 194

    private mode • 186, 188

    public mode • 186, 188

    sections • 187

    selecting • 190, 192

    turning off • 190

    turning on • 190

    using • 187, 189

annotationsannotations • 186

archival date and time field • 79, 94, 105

archiving annotations • 188

## B

B (bookmark) • 190

B selection code • 339, 347

background printing • 200, 202, 203, 204, 205

banner • 218, 232, 234

    specifying for printing • 218, 232, 234

Banner Page Selection List panel • 384

banner pages • 223, 328, 361

    assigning to users • 328

    specifying • 223

    specifying for JES printers • 361

BANNER print attribute • 218, 223, 232, 234

BANNERS • 376

    browse command • 376

batch mode • 200, 202, 203, 204, 205

    printing • 200

    printing in • 202, 203, 204, 205

BNDW status • 80

BOOKMARK command • 157

BOOKMARK command commands • 190

    BOOKMARK • 190

bookmarks • 157, 186, 187, 189, 190, 192

    creating • 190, 192

    definition of • 186

    deleting • 192

    inserting • 157

    locating • 192

    locating first occurrence of • 192

    selecting • 190, 192

    using • 187, 189

bookmarksbookmarks • 186

browse • 375, 376, 377, 382, 383

- 
- commands • 375, 376, 377, 382, 383
    - BANNERS • 376
    - DOWN • 376
    - FIND • 376, 377, 382
      - syntax rules for FIND syntax rules • 382
    - HEX • 376
    - LEFT • 376
    - LOCATE • 375, 376
    - RESET • 376
    - RFIND • 376, 383
    - RIGHT • 376
    - UP • 376
  - labels • 375
    - definition of • 375
    - rules for specifying • 375
    - setting to a record in a member • 375
  - Browse Facility Display screen • 137
  - browse labels • 138
  - browsing output • 90, 100, 129, 130, 131, 132, 135, 141, 165, 190
    - and annotations • 190
    - and bookmarks • 190
    - and logical views • 130
    - choosing a logical view for • 132
    - commands for • 141
    - on disk • 135
    - on tape • 135
    - selection code for ALL mode • 90
    - selection code for SARO mode • 100
    - selection codes for • 131
    - using filters for • 165
    - using the Browse Facility Display screen • 129
  - BUILDING print attribute • 235
  - Bundle Reprint Selection List • 244
  - bundles, reprinting CA Deliver • 244
  - BURST print attribute • 218, 223, 235
- ## C
- C (combined) • 190
  - C option • 271
  - C selection code • 90, 100, 339, 347
  - CA Balancing • 90, 100
  - CA Connect • 361
  - CA Deliver • 25, 30, 79, 104, 203, 204, 207, 244
    - bundles, reprinting • 244
    - overview of interface with • 25
    - overview of report access • 25
    - printing reports processed through • 203, 204, 207
    - retrieving reports from • 30
    - selecting reports processed by • 79, 104
  - CA Deliver Reprint Attribute panel • 222
  - CA Spool • 211, 353, 357
    - attributes, defining • 357
    - defining device type • 353
    - print subsystems • 211, 353
    - specifying a name for • 357
  - CA Spool Device Attribute panel • 357
  - CANCEL command • 340, 348
  - carriage control characters, displaying • 275, 319
  - CC selection code • 339, 347
  - character strings, finding • 147
  - CHARS print attribute • 218, 223, 235
  - CKPTLINE print attribute • 235
  - CKPTPAGE print attribute • 235
  - CKPTSEC print attribute • 235
  - class • 218, 221, 223, 230, 232, 234, 235
    - overriding for printing • 221, 230
    - specifying for printing • 218, 223, 232, 234, 235
  - CLASS print attribute • 218, 223, 232, 235
  - cleanup • 90, 100
    - selection code for ALL mode • 90
    - selection code for SARO mode • 100
  - Cn selection code • 339, 347
  - COLORMAP print attribute • 235
  - colors • 165, 168, 271, 279, 282, 287, 311
    - assigning to panels • 165
    - assigning to reports • 165
    - displaying panel for specifying • 271
    - displaying panel for specifying line • 271
    - for column headings • 287
    - for columns • 282
    - for primary headings • 279
    - specifying • 311
    - to use for filters • 168
  - Column Heading Specifications panel, using • 286, 287
  - column headings • 285, 318
    - defining in VIEW COLS mode • 318
    - specifying • 285
  - column lines • 142, 162
    - displaying • 142
    - removing • 162
  - columns • 168, 271, 279, 280, 282, 296, 318, 319
    - displaying panel for specifying • 271
    - extracting • 296
-



---

position for extracting data for • 282  
 position for extracting primary headings for • 279  
 specifying • 280  
 specifying for logical views • 319  
 to include for filters • 168  
 to use for page indexing • 318  
**COLUMNS** command • 142  
**commands** • 16, 17, 18, 19, 20, 21, 66, 121, 122, 124, 125, 142, 143, 156, 157, 158, 159, 160, 161, 162, 169, 190, 200, 201, 202, 203, 271, 310, 320, 327, 331, 333, 336, 340, 341, 344, 345, 348, 349, 352, 355, 356, 366, 367, 368, 373, 374, 376  
**ADD** • 331  
**ANNOTATE** • 156, 190  
**BOOKMARK** • 157  
**browsecommandsbrowse** • 376  
**CANCEL** • 340, 348  
**COLUMNS** • 142  
**CONFIRM** • 121, 336, 344, 355, 366  
**COPY** • 271, 349  
**CURSOR** • 17  
**DEF DEV** • 352  
**DEF DIST** • 341  
**DEF SYSOUT** • 333  
**DEF USER** • 327  
**DELETE** • 271, 331  
**DISPLAY** • 373  
**END** • 17, 374  
**FILTER** • 157  
**FIND** • 143  
 for filters • 169  
**GOTO** • 157  
**HELP** • 18  
**HEX** • 158  
**I** • 310  
 invoking system-wide • 17  
**J** • 200, 202, 203  
**KEYS** • 19  
**LIMIT** • 159  
**LOCATE** • 122, 159, 336, 355  
**MARK** • 160  
**MODE** • 66  
**NEXT** • 161  
**P** • 200, 201  
**PANELS** • 374  
**PREV** • 161  
**REDISPLAY** • 124, 367  
**REPLACE** • 271  
**RESET** • 162  
**RETRIEVE** • 20  
**RETURN** • 20  
**SAVE** • 271  
**SCROLL** • 21  
**SELECT** • 271, 345, 356, 368  
**SUBMIT** • 124  
**SUBMIT CANCEL** • 125  
 system-wide • 16  
**VIEW** • 162  
**WHERE** • 162, 320  
**COMPACT** print attribute • 235  
**COMSETUP** print attribute • 235  
**Confirm Change** • 371  
**CONFIRM** command • 121, 336, 344, 355, 366  
**Confirm Delete panel** • 384  
 confirming deletions • 128  
**CONTROL** print attribute • 235  
**copies** • 218, 223, 235  
     specifying for printing • 218, 223, 235  
**COPIES** print attribute • 218, 223, 235  
**COPY** command • 271, 349, 370  
 copy group, specifying printer • 218, 223, 235  
**COPYG** print attribute • 218, 223, 235  
**cross-report indexing** • 49, 50, 51, 55, 295  
     and AFP reports • 295  
     and Xerox reports • 295  
     overview of • 49  
     selecting by index • 51  
     selecting by report • 55  
     using • 50  
**cross-report indexingcrossreport** • 49  
**cross-report indexingSee also page indexes** • 289  
**CURSOR** command • 17  
 cursor position, determining • 320

## D

**D** selection code • 90, 100, 335, 339, 343, 347, 354  
**database** • 350, 351  
     increasing size of • 351  
     statistics • 350  
     utilization, viewing • 350  
**Database Status panel** • 350  
**DATAACK** print attribute • 235  
**DD** selection code • 90, 100, 339, 347  
**DEF DEV** command • 352  
**DEF DIST** command • 341  
**DEF DISTID** command • 333  
**DEF SYSOUT** command • 333

---

---

DEF USER command • 327  
DEFDIST control statement • 349  
Define Column Specifications panel • 281  
DEFSYS control statement • 349  
DEFUSER control statement • 332  
DELETE command • 271, 331  
delete confirmation • 121, 122, 128, 336, 344  
deleting • 90, 100, 128, 338, 346, 357  
    disk space • 90, 100  
        selection code for ALL mode • 90  
        selection code for SARO mode • 100  
    files automatically • 357  
    output • 90, 100, 128  
        selection code for ALL mode • 90  
        selection code for SARO mode • 100  
        with no retrieval • 128  
    reports, user authority for • 338, 346  
DEPT print attribute • 235  
DEST print attribute • 210, 218, 232, 235  
destination • 218, 221, 230, 232, 234, 235  
    overriding for printing • 221, 230  
    specifying printer • 218, 232, 234, 235  
device • 351, 353, 357, 360, 361, 362  
    address, defining • 353  
    defining an output • 351  
    names, defining • 357, 360, 362  
    synonyms, defining • 353, 357, 360, 361  
    types, defining • 353  
DI selection code • 90, 100  
disk • 80, 94, 103, 105, 135, 201  
    and status • 103  
    output on • 80, 94, 105, 135, 201  
DISK status • 80  
DISPLAY command • 373  
Display Selection panel • 374, 384  
DIST IDs • 30, 227, 228, 229, 328, 332, 333, 338  
    adding for printing • 228  
    and EXP mode • 30  
    and private reports • 332  
    and SAR mode • 30  
    assigning to users • 328  
    defining for a SYSOUT ID • 333  
    definition of • 30  
    deleting for printing • 228  
    deleting special instructions for • 229  
    panels for printing • 227  
    special instructions for • 228  
    specifying for a SYSOUT group • 338  
Distribution Definition Selection List • 342

Dn selection code • 339, 347  
DOWN • 376  
    browse command • 376  
DPAGELBL print attribute • 235  
DSK2 status • 80  
DUPLEX print attribute • 235  
Dynamic Program Call interface, and external  
    printing • 215

## E

END • 374  
    command • 374  
END command • 17  
exceptional conditions • 82, 94  
    field • 82, 94  
EXP mode • 30, 39, 40, 41, 104, 105, 108  
    overview of • 30  
    Primary Selection panel for • 39, 40, 41  
    selecting reports in • 104  
    Sysout Selection List example • 108  
    Sysout Selection List example for • 105  
    Sysout Selection List in • 104  
Expanded Access Server for Tape and Robotics • 135  
Expanded Retention Option • 92, 102  
    selection codes • 92, 102  
        ALL mode • 92  
        SARO mode • 102  
EXPO mode • 30, 38, 39, 104, 108, 222  
    CA Deliver Reprint Attribute panel • 222  
    overview of • 30  
    Primary Selection panel for • 38, 39  
    selecting reports in • 104  
    Sysout Selection List example • 108  
    Sysout Selection List in • 104  
External Print Device Attribute panel • 359  
external printing • 212, 213, 215, 359  
    specifying attributes for • 359  
    using the Dynamic Program Call interface • 215  
    using the JES data set interface • 213  
external writer, specifying for printing • 218, 223,  
    353  
EXTPRT parameter • 213  
EXTPRTn parameter • 215  
extracting fields from output • 90, 100  
    selection code for ALL mode • 90  
    selection code for SARO mode • 100  
extracting lines/columns • 296

---

## F

FCB print attribute • 218, 223, 235  
FILTER command • 157, 169, 170  
    CREATE • 169  
    EDIT • 170  
    OFF • 170  
    ON • 170  
    SELECT • 170  
Filter Definition Selection List panel • 166  
filtering • 72, 74  
filters • 165, 166, 169, 170, 171, 273  
    activating • 170  
    and security • 171  
    commands for using • 169  
    creating • 169  
    deactivating • 170  
    defining • 166  
    editing • 170  
    invoking for a logical view • 273  
    permanent • 165  
    selecting • 170  
    temporary • 165  
filtersfilters • 165  
FIND • 376, 377, 382  
    browse command • 376, 377, 382  
    description of • 376, 377  
    syntax rules forFINDrulesforsyntax • 382  
FIND command • 143, 150, 151, 152, 153, 154, 155, 156  
    ALL parameter • 151  
    CHARS parameter • 154  
    FIRST parameter • 150  
    LAST parameter • 151  
    messages • 156  
    NEXT parameter • 150  
    PREFIX parameter • 154  
    SUFFIX parameter • 155  
    WORD parameter • 155  
    X parameter • 152  
    XALL parameter • 153  
finding text • 143, 144, 145, 146, 147, 148, 151, 152, 153, 156, 159, 162, 165  
    all occurrences • 151  
    and assigning attributesSee filters • 165  
    character strings • 147  
    excluding text from display • 152  
    hex strings • 145  
    limiting columns for • 148

    limiting the display • 153  
    limiting the records searched • 159  
    messages • 156  
    picture strings • 146  
    quoted strings • 144  
    repeating the FIND command • 162  
    text strings • 147  
    using BOOLEAN logicSee filters • 165

FLASH COUNT print attribute • 235  
FLASH print attribute • 218, 223, 235  
FORM print attribute • 218, 223, 235  
FORMDEF print attribute • 235  
FORMDF print attribute • 218, 223  
FORMLEN print attribute • 235  
forms • 218, 221, 223, 230, 235  
    overriding for printing • 221, 230  
    specifying names for • 218, 223, 235  
FSSDATA print attribute • 235

## G

global views • 256, 370  
GOTO command • 157, 190

## H

H option • 271  
headings • 271, 277, 278  
    defining primary • 278  
    displaying panel for defining primary • 271  
    specifying primary • 277  
HELP command • 18  
hex • 145, 158  
    mode • 158  
    strings, finding • 145  
HEX browse command • 376  
HEX command • 158  
highlight • 168, 279, 282, 287  
    to use for column headings • 287  
    to use for columns • 282  
    to use for filters • 168  
    to use for primary heading • 279  
HOLD print attribute • 218, 223, 235

## I

I command • 310  
I selection code • 90, 100, 339, 347  
In selection code • 339, 347  
Index Name Selection List panel • 51  
index names • 49

---

- and SYSOUT cross reference • 49
- Index Selection List panel • 51
- indexes • 289
  - overview of • 289
- indexesSee page indexes • 90
- INTRAY print attribute • 235
- INVALID LABEL message • 192
- IPDEST print attribute • 235

## J

- J command • 200, 202, 203, 204, 205, 206, 207, 208
  - in ALL mode • 202, 203
  - in EXP mode • 208
  - in EXPO mode • 204, 205
  - in SAR mode • 206, 207
  - in SARO mode • 202, 203
- J selection code • 90, 102, 114
- JA selection code • 102, 114
- JCLASS initialization parameter • 221
- JES • 82, 211, 213, 353, 360
  - data set interface, and external printing • 213
  - job ID field • 82
  - printers • 211, 353, 360
    - printing to • 353
    - specifying attributes for • 360
- JES Printer Device Attribute panel • 360
- JL selection code • 90, 102, 114
- job name field • 82

## K

- K selection code • 92, 103, 116
- KD selection code • 92, 103, 116
- KEYS command • 19

## L

- L option • 271
- L selection code • 90, 100
- labels • 375
  - definition of • 375
  - rules for specifying • 375
  - setting to a record in a member • 375
- labels, for browsing text • 138
- language, of panels • 328
- LEFT • 376
  - browse command • 376
- LI selection code • 90, 100
- LIMIT command • 159
- LINECT print attribute • 218, 223, 235

- lines • 79, 94, 105, 168, 196, 218, 223, 235, 296, 318, 350, 357, 362
  - containing annotations • 196
  - extracting • 296
  - field • 79, 94, 105
  - per page to print • 218, 223, 235
  - specifying maximum for printing • 357
  - specifying maximum number to print • 362
  - to include for filters • 168
  - to use for page indexing • 318
  - viewing total number of • 350
- LOAD status • 80
- loading • 90, 100, 127
  - output to disk • 127
  - reports from optical disk • 90, 100
    - selection code for ALL mode • 90
    - selection code for SARO mode • 100
  - reports from tape • 90, 100
    - selection code for ALL mode • 90
    - selection code for SARO mode • 100
- LOCATE • 375, 376
  - browse command • 375, 376
- LOCATE command • 122, 159, 336, 355
- location • 79, 80, 94, 105
  - field • 79, 94, 105
  - of output • 80, 94, 105
- logical views • 130, 132, 162, 255, 256, 267, 268, 269, 271, 273, 275, 313, 363, 369, 370
  - and browsing • 130
  - choosing for browsing • 132
  - creating • 267, 268, 269
  - creating with primary View Definition panel • 268
  - creating with VIEW COLS • 313
  - default • 275
  - defining • 363, 370
  - definition of • 255
  - deleting • 268
  - fields of View Definition (primary) panel • 271, 273
  - global • 256
  - modifying • 268, 269
  - overview of • 130
  - private • 256
  - public • 256
  - replicating • 370
  - retrieving • 369
  - security • 273
  - types of • 256

---

VIEW command • 162  
logical viewsLogicalViews • 253  
logical viewsSee also views • 253  
LT selection code • 90, 100  
LX selection code • 100

## M

M selection code • 90, 102, 114, 339, 347  
MARK command • 160  
marking text, for printing • 160  
master authority • 326, 328  
    assigning • 326  
    assigning to users • 328  
messages, for the FIND command • 156  
migrating reports to optical disk • 90, 102, 114  
    selection code for ALL mode • 90  
    selection code for EXP and EXPO modes • 114  
    selection code for SARO mode • 102  
MM selection code • 339, 347  
Mn selection code • 339, 347  
MODE command • 66  
modesSee user modes • 29  
MODIFY print attribute • 218, 223, 235  
MODIFY TRC print attribute • 235

## N

NAME print attribute • 235  
native views • 253, 254  
    definition of • 253  
    examples of • 254  
NEWCLSL initialization parameter • 221, 230  
NEWDEST initialization parameter • 221, 230  
NEWFORM initialization parameter • 221, 230  
NEXT command • 161  
NOTIFY print attribute • 235

## O

OFFSETXB print attribute • 235  
OFFSETXF print attribute • 235  
OFFSETYB print attribute • 235  
OFFSETYF print attribute • 235  
Online Panel Selection List • 387  
online retrieval process • 25  
OPEN status • 80  
operators, use for filters • 168  
OPTCDG print attribute • 223  
OPTCDJ print attribute • 218, 235  
optical disk • 80, 82, 84, 85, 86, 94, 105, 201

    identifying Sysout on • 82, 84, 85, 86  
    output on • 80, 94, 105, 201

OUTBIN print attribute • 235  
OUTDISP print attribute • 235  
output devices, defining • 351  
OVERLAY print attribute • 235

## P

P command • 200, 201, 203, 204, 205, 207  
    in ALL mode • 201  
    in EXP mode • 207  
    in EXPO mode • 203, 204  
    in SAR mode • 205  
    in SARO mode • 201  
P option • 271  
P selection code • 90, 102, 114, 339, 347  
PA selection code • 102, 114  
page definition, specifying • 218, 223, 235  
Page Index Selection List panel • 135, 308  
page indexes • 50, 90, 100, 135, 309, 310, 311  
    creating in batch • 309  
    creating online • 309  
    creating with the I command • 310  
    limiting in cross-report indexing • 50  
    modifying • 311  
    selection code for creating in ALL mode • 90  
    selection code for creating in SARO mode • 100  
    selection lists for • 135  
PAGE print attribute • 218, 223, 232, 234  
PAGEDEF print attribute • 235  
PAGEDF print attribute • 218, 223  
pages • 79, 105, 159, 160, 163, 196, 218, 223, 232, 234, 276  
    containing annotations • 196  
    excluding from logical views • 276  
    field • 79, 105  
    finding with 3270/AFP browser • 163  
    locating • 159  
    marking for printing • 160  
    specifying for printing • 218, 223, 232, 234  
panels • 16, 38, 39, 40, 41, 43, 51, 55, 58, 79, 93, 104, 132, 135, 137, 166, 189, 192, 194, 222, 231, 233, 244, 268, 270, 278, 308, 311, 327, 342, 350, 357, 359, 360, 361, 364, 369, 371, 373, 374, 384, 387  
    Alternating Color Specification • 311  
    Annotation Definition • 194  
    Annotation/Bookmark Selection List • 192

---

- Banner Page Selection List • 384
- Browse Facility Display • 137
- Bundle Reprint Selection List • 244
- bypassing • 58
- CA Deliver Reprint Attribute • 222
- CA Spool Device Attribute • 357
- Confirm Change • 371
- Confirm Delete • 384
- Database Status • 350
- Display Selection • 374, 384
- Distribution Definition Selection List • 342
- External Print Device Attribute • 359
- Filter Definition Selection List • 166
- Index Name Selection List • 51
- Index Selection List • 51
- JES Printer Device Attribute • 360
- Online Panel Selection List • 387
- overview of product • 16
- Page Index Selection List • 135, 308
- Primary Heading Specifications • 278
- Primary Selection Menu • 373, 384, 387
- Primary Selection panel for EXP mode • 39, 40
- Primary Selection panel for EXPO mode • 38, 39
- Primary Selection panel for SAR mode • 41, 43
- Primary Selection panel in ALL mode • 38
- Print Attribute (optional) • 231, 233
- Report Browse (SARP7) • 189
- Report Selection List in EXP mode • 104
- Reprint Attribute (main) • 222
- SYSOUT Selection List • 51, 55
- Sysout Selection List in ALL mode • 79
- Sysout Selection List in SARO mode • 93
- Userid Definition • 327
- View Definition • 369
- View Definition (primary) • 268, 270
- View Selection • 132
- View Selection List • 55, 364
- VTAM Device Attribute • 361
- PANELS command • 374
- passwords, assigning user • 328
- PCs • 211, 353
  - printing to • 211
  - specifying for downloading to • 353
- PDK2 status • 80
- PDSK status • 80
- PERM status • 80
- permanent status • 92, 103, 116
- PF keys • 19, 23
  - defining • 19
  - using • 23
- PI selection code • 90, 102, 114
- picture strings, finding • 146
- PIMSG print attribute • 235
- Pn selection code • 339, 347
- PORTNO print attribute • 235
- PREV command • 161
- Primary Heading Specifications panel • 278
  - using • 278
- primary headingsSee headings • 278
- Primary Selection Menu panel • 373, 384, 387
- Primary Selection panel • 38
  - for user modes • 38
- Print Attribute (Optional) panel • 231, 233
- print attributes • 221, 226, 230
  - overriding default • 221, 230
  - selection codes for • 226
- print attributesPrintAttributes • 216
- printer devices • 210, 351
  - defining system • 351
  - specifying • 210
- printing output • 90, 102, 114, 160, 199, 200, 201, 202, 203, 204, 205, 211, 212
  - in batch mode • 200, 202, 203, 204, 205
  - marking text for • 160
  - overview of • 199
  - selection code for ALL mode for • 90
  - selection codes in EXP and EXPO mode for • 114
  - selection codes in SARO mode for • 102
  - synonym printer type • 211
  - to CA Spool • 211
  - to external printers • 212
  - to JES printers • 211
  - to PCs • 211
  - to VTAM • 211
  - using the P and J commands • 201
- printing outputPrintingOutput • 199
- priority, assigning to print job • 218, 223, 235
- private mode annotations • 186, 188
- private report viewing • 30, 332
  - overview of • 332
- private reports • 30, 332
  - definition of • 30
  - overview of • 332
- private views • 256, 273
  - specifying • 273
- PRM2 status • 80
- PRMODE print attribute • 218, 223, 235
- PRSET print attribute • 223

---

---

PRTOPTNS print attribute • 235  
PRTQUEUE print attribute • 235  
PRTY print attribute • 218, 223, 235  
PTAP status • 80  
PTERROR print attribute • 235  
PTMP status • 80  
public mode annotations • 186, 188  
public views, definition of • 256

## Q

quoted strings, finding • 144

## R

R selection code • 335, 339, 343, 347, 354  
RECORD print attribute • 218, 223, 232, 234  
records • 159, 160, 218, 223, 232, 234, 276, 279, 287, 318  
    excluding from logical views • 318  
    limiting in text search • 159  
    locating • 159  
    marking for printing • 160  
    specifying for printing • 218, 223, 232, 234  
    to display in logical views • 276  
    used for column headings • 287  
    used for primary headings • 279  
REDISPLAY command • 124, 367  
REPLACE command • 271  
Report Browse (SARP7) panel • 189  
report ID • 105  
    field • 105  
Report Selection List • 104  
    in EXP modeReportSelectionEXP • 104  
    in EXPO modeReportSelectionEXPO • 104  
report selectionSee selecting reports • 69  
Reprint Attribute (main) panel • 222  
reprinting reports, user authority for • 338, 346  
RESET browse command • 376  
RESET command • 162  
RESFMT print attribute • 235  
RETAIN print attribute • 235  
RETRIEVE command • 20  
retrieving reports • 89  
    in ALL mode • 89  
retrieving reportsSee also selecting reports • 89  
RETRY print attribute • 235  
RETURN command • 20  
RFIND browse command • 376, 383  
RFIND command • 162

RIGHT • 376  
    browse command • 376  
ROOM print attribute • 235  
RR selection code • 339, 347  
RVIEW option • 338, 346

## S

S selection code • 90, 100, 131, 335, 343, 354  
SAR mode • 30, 43, 93, 94, 231, 233  
    overview of • 30  
    Primary Selection panel for • 43  
    Print Attribute (optional) panels • 231, 233  
    selecting reports in • 93  
    Sysout Selection List example • 94  
    Sysout Selection List in • 93  
SARDBASE SET control statement • 351  
SARDBASE VERIFY control statement • 351  
SARFSS interface • 295  
SARO mode • 30, 41, 43, 93, 94  
    overview of • 30  
    Primary Selection panel for • 41, 43  
    selecting reports in • 93  
    Sysout Selection List example • 94  
    Sysout Selection List in • 93  
SAVE command • 271  
saving definitions • 271  
SCROLL command • 21  
scrolling • 21, 129, 275, 278, 319  
    of logical views • 275, 319  
    of primary headings • 278  
searching for textSee finding text • 143  
security • 171, 273  
    and filters • 171  
    of views • 273  
SELECT BY INDEX option • 51  
SELECT BY REPORT option • 55  
SELECT command • 271, 345, 356, 368  
selecting reports • 51, 69, 71, 79, 82, 83, 84, 86, 87, 88, 93, 94, 104, 105, 107, 108  
    by page index • 51  
    in ALL mode • 79, 82, 83, 84, 86, 87, 88, 107  
        example • 82, 83, 84, 86, 87, 88, 107  
    in different user modes • 71  
    in EXP mode • 104, 105, 108  
        example • 105, 108  
    in EXPO mode • 104, 108  
        example • 108  
    in SAR mode • 93, 94

---

- example • 94
- in SARO mode • 93, 94
  - example • 94
  - overview of • 69
- selection codes • 78, 90, 92, 102, 131, 226
  - for ALL mode • 90
  - for ALL mode and ERO • 92
  - for browsing output • 131
  - for print attributes • 226
  - for SARO mode and ERO • 102
- sorting • 72
- special strings • 144
- status • 92, 103, 116, 350
  - displaying online • 350
  - keeping in permanent • 92, 103, 116
  - removing from permanent • 92, 103, 116
- SUBMIT CANCEL command • 125
- SUBMIT command • 124
- synonyms • 211, 353, 356, 357, 360, 361
  - defining for CA Spool • 357
  - defining for external printer • 360
  - defining for JES printers • 361
  - defining for output devices • 353, 356
  - printer type • 211
  - specifying device • 357
- SYSAREA print attribute • 235
- SYSOUT group • 79, 94
  - ID field • 79, 94
- SYSOUT IDs • 273, 282, 338, 341, 346
  - defining for a DIST ID • 341
  - of logical views • 273, 282
  - specifying for a DIST ID • 338, 346
- SYSOUT Selection List panel • 51, 55, 79, 93, 104
  - in ALL modeSysoutSelectionALL • 79
  - in EXP mode • 104
  - in EXPO mode • 104
  - in SAR mode • 93
  - in SAR modeSysoutSelectionSAR • 93
  - in SARO modeSysoutSelectionSARO • 93
- SYSOUTS, viewing total number of • 350

## T

- tape • 80, 82, 84, 85, 86, 90, 92, 94, 100, 103, 105, 116, 127, 135, 201
  - and status • 92, 103, 116
  - identifying output on • 82, 84, 85, 86
  - loading output from • 90, 100, 127
  - mounts • 135, 201

- output on • 80, 94, 105, 135, 201
- TAPE status • 80
- TEMP status • 80
- text • 163, 168, 279, 282, 287
  - finding with 3270/AFP browser • 163
  - to include for filters • 168
  - to use for column headings • 287
  - to use for columns • 282
  - to use for primary heading • 279
- text strings, finding • 147
- TITLE print attribute • 235
- TSOCLS initialization parameter • 221, 230
- TSODEST initialization parameter • 221, 230
- TSOFORM initialization parameter • 221

## U

- UCS print attribute • 218, 223, 235
- UP • 376
  - browse command • 376
- user exit, for device synonym • 357, 362
- user IDs, assigning • 328
- user modes • 29, 38, 66, 69, 71, 328
  - and output selection lists • 71
  - assigning default to users • 328
  - assigning to users • 328
  - changing • 66
  - overview of • 29
  - overview of report retrieval for • 69
  - selecting • 38
- USERDATA print attribute • 235
- Userid Definition panel • 327
- users • 327, 330, 331
  - adding online • 330
  - defining • 327
  - deleting • 331

## V

- V selection code • 90, 100, 131
- VIEW COLS mode • 313, 317
  - accessing • 313
  - using • 317
- VIEW COLS modeViewCols • 313
- VIEW command • 162
- View Definition (primary) panel • 268
  - accessing • 268
- View Definition panel • 270, 369
- view number • 273
- VIEW print attribute • 218, 223



---

View Selection List • 364  
View Selection List panel • 55  
View Selection menu • 132  
views • 188, 218, 223, 338, 346  
    annotations for • 188  
    restricting • 338, 346  
    specifying for printing • 218, 223  
viewsSee also logical views, native views • 130  
VIEWTAPE parameter • 135  
Vnnn selection code • 90, 100, 131  
VTAM Device Attribute panel • 361  
VTAM logmode • 362  
VTAM print subsystems • 211, 353  
    specifying for printing to • 353

## W

WHERE command • 162, 320  
WRITER print attribute • 218, 223, 235

## X

X selection code • 90, 100  
Xerox reports and cross-report indexing • 49, 295