CA Deliver™

Administration Guide

Release 12.1

CA Technologies Product References

This document references the following CA Technologies products:

- CA Connect™
- CA Roscoe®
- CA Spool™
- CA View®

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Chapter 1: Introduction

Welcome to the CA Deliver output management report distribution and tracking system that is designed for use on the IBM and MVS z/OS operating systems. This guide uses step-by-step procedures to introduce you to the features and functions of this automated, online system.

A *report* can be any of the following:

- A continuous stream of SYSOUT data that is distributed as a unit

- One or more adjoining pages (called *segments*) of SYSOUT data grouped together

  The combination of two or more segments from a single SYSOUT

A series of panels allows you to display, change, distribute, and track information in the database according to the attribute categories you specify.

CA Deliver automates your daily report distribution functions. Based on the directions you supply during installation, the product can do the following:

- Separate SYSOUT (system output) into individual reports

- Generate banner pages that list the individuals who are to receive the reports when they are distributed

- Bundle reports according to individuals and groups of individuals

- Maintain historical data on the bundles and reports

This chapter lists the supported online terminal management systems, describes the types of data in the database and the types of reports you can define.

With CA Deliver, you can do the following:

- Define basic reports

- Define stacked reports containing either exclusive or overlapping segments

- Define reports created from interleaved records

- Define reports containing control breaks

- Create a bundle of reports

- Manually delete non-bundled and bundled bad reports, and rerun jobs that ended abnormally

- Obtain data and detailed historical data about the reports and bundles

- Identify the ways you can archive and reprint these reports with CA View Output Archival and Viewing (CA View)

This section contains the following topics:

Who Should Read This Guide?

This guide is targeted primarily to the report administrator who is responsible for the following:

- Production control

  Sets up jobs; monitors output for accuracy; determines if jobs must be rerun

- Operations

  Posts bundles; verifies that jobs execute; tracks reports; prints bundles; deactivates reports, bundles, and jobs

- Job scheduling

  Sets up schedules of predecessor and successor jobs to manage the daily cycle of job executes

- Writes applications that use the product

- Installs and maintains the product

This guide assumes that you are familiar with IBM computer system terms and concepts and that you have a basic working knowledge of IBM JCL. You also need a working knowledge of MVS online facilities because the product panels behave like ISPF panels.

Tips for Using This Guide

To get the most out of this guide:

- Read the chapters in sequence—each successive chapter builds on the skills you developed in the preceding chapter.

- Experiment with some of the example identifiers, jobs, and reports.

  By trying the examples, you will have a better understanding of how the product works.

  Note: You are *not* meant to follow all steps presented in this guide explicitly, because some procedures are presented for illustration only.

- Use a test database when performing the procedures in this guide.

- When you are finished reading this guide, delete all the jobs and identifiers you defined to avoid cluttering your test database.

  The chapter "Displaying and Deleting Database Elements" lists the items in the database that you must delete and tells you how to delete them.

  Note: All the report information you enter are deleted automatically.

New Features and Enhancements in this Release

For more information about:

- New features and enhancements, see the *Release Notes*.
- User abend codes and routine error messages, see the *Message Guide*.

Conventions Used in This Guide

This section explains the conventions we use 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. You enter these exactly as shown.

Variables

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

Optional Parameters

Text within brackets [ ] indicates optional keywords or parameters.

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 the examples below:

■   PF1

■   PF12

Note: On most keyboards, PF keys are located either at the top or on the right side of the keyboard. PF keys are usually marked PF or simply F followed by one or two digits.

Supported Online Terminal Management Systems

The online terminal management systems from which you can access CA Deliver include:

■   Native TSO

■   SPF/ISPF

■   CA Roscoe Interactive Environment

■   CICS

■   VTAM

All the product features and functions in these systems work in a similar fashion with the exception of SPF/ISPF.

If You Use SPF/ISPF

SPF/ISPF does not work like the other online terminal management systems.

If you use SPF/ISPF, the SPF/ISPF program function key definitions and the SPF/ISPF KEYS command are used instead of the CA Deliver program function key definitions and KEYS command.

Note: The SPF/ISPF program function keys that are available and the way in which you issue the KEYS command are identical in both cases.

The Database

The database maintains eight types of data, as follows:

- Job description data

- Report description data

- Distribution data

- Bundle description data

- Active report status data

- Active bundle status data

- Report historical data

- Bundle historical data

The procedures in this guide show you how to extract, manipulate, and define reports using these types of data.

Reports

This section describes the different types of reports that you can define.

A Basic Report

A *basic report* is a report that contains an entire SYSOUT data set, which is distributed as a unit.

For more information, see the chapter "Defining Basic Reports."

Stacked Reports That Contain Exclusive Segments

- An *exclusive segment* is one or more adjacent pages of unique data.

  These pages are extracted from a single SYSOUT data set and placed in a report that is not duplicated in any other report produced from that SYSOUT data set.

- A *stacked report that contains exclusive segments* is a report that contains a unique and exclusive segment of a single SYSOUT data set.

Note: For more information about stacked reports, see the chapter "Defining Stacked Reports That Contain Exclusive Statements."

Stacked Reports That Contain Overlapping Segments

- An *overlapping segment* is one or more pages of data.

  These pages are extracted from a single SYSOUT data set and placed in a report that might be wholly or partially duplicated in other reports.

- A *stacked report that contains overlapping segments* is a report that contains one or more segments of a single SYSOUT data set.

  These segments might be wholly or partially duplicated in other reports.

Note: For more information about stacked reports, see the chapter "Defining Stacked Reports That Contain Overlapping Statements."

Reports with Control Breaks

- A *control break* is a point at which the system divides a SYSOUT data set into unique parts and inserts a special separator page. This separator page creates, in effect, separate reports.

- A *report with control breaks* is a report that contains an entire SYSOUT data set that is distributed as a unit. This unit includes one or more separator pages that are inserted into the report according to your specifications.

Note: For more information about reports with control breaks, see the chapter "Defining Reports That Contain Control Breaks."

A Bundle of Reports

A *bundle* of reports defines a package of reports that are generated by one or more jobs and are grouped together for distribution by CA Deliver.

You can specify that a bundle of reports be delivered to one or more distribution points at one location.

Note: For more information about bundle of reports, see the chapter "Creating a Bundle of Reports."

Chapter 2: Basics

This chapter describes the basic system conventions and how to use them, and includes information about how to do the following:

- Scroll quickly through information that is displayed on a panel
- Use the system-wide commands
- Program the function (PF) keys to help you navigate through the panels and subpanels
- Use the input commands
- Use the scroll field options
- Use the tabular commands

Note: Some topics that are introduced in this chapter (for example, specific identifiers and panel contents) are described in more detail in subsequent chapters.

This section contains the following topics:

Using Panels and Subpanels

This section provides a sample of all panels and subpanels, along with panel descriptions and information about the valid entries.

Panel Format

The Primary Selection Menu panel appears when you log on to CA Deliver. Notice the first three lines of the online panels; all panels share this common format.

This illustration shows the typical parts of a panel:

```
        ①                      ②                      ③
CA Deliver - Primary Selection for DELIVER.SYSTEM1 ----- Distribution id saved
Command ==>  ④                                           Scroll==> PAGE ⑤
        ⑥
   A Active Display     - Display selection list of active reports or bundles.
   B Bundle Data        - Display bundle data.
   D Distribution Data  - Display distribution data.
   J Job Data           - Display job data.
   R Report Data        - Display report data.

     Operands for A:
        B    - Display selection list of active bundles.
        R    - Display selection list of active reports (default).
        X    - Limit selection list to exceptions.
        PREV - Display selection list for previous cycle.

     Operand for B,D,J,R:
        Omit operand for complete selection list.
        Specify identifier to display data.
        Specify generic identifier for limited selection list.
        L    - For D only, display list of distribution lists.

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

1 Short message area

Displays the product name

This text always displays when you run CA Deliver.

2 Panel name

Identifies the panel you are using or the operation you are performing

3 Short message area

Displays the following:

- Cursor position - The current line number and column position

- A message that describes either a successfully completed process or an error

Note: An error usually generates an audible alarm if your terminal has sound capabilities.

You can display more information about error messages in the long message area.

4 Command line

The area on the panel where you enter commands or options (described later in this chapter)

5 Scroll field

Displays the scroll field option you selected

How you scroll through the display - by panels, lines, columns, up and down, and top and bottom

Scroll field options are described in Using Scroll Field Options, later in this chapter. This field is also used to permanently change or temporarily override the scroll field option.

Note: The scroll field is available only on selected panels.

6 Long message area

Displays additional information about error messages that are displayed in the short message area

When an error message is displayed in the short message area, you issue the HELP command to display additional error information.

On some panels, the error information that is displayed in the long message area might temporarily obscure the column headings or other panel information.

Note: The illustration does not show information in the long message area.

7 Panel body

Displays unique panel information, such as lists of options, input fields, or scrollable text

Note: The illustration contains a list of options in the panel body.

Navigating Between Fields on a Panel

- Press the Tab key to move quickly from one data field to the next on any panel.
- Press Shift+Tab to go back to the previous field on a panel.

Using Commands

The three types of commands described in this section are:

- System-wide commands with scroll field options
- Input commands
- Tabular commands

You also use display commands and browse commands to display and delete elements in the database.

Note: For more information about the display and browse commands, see the chapter "Displaying and Deleting Database Elements."

System-Wide Commands

System-wide commands are commands you can use on any panel.

Enter a system-wide command on the command line, as shown in this illustration.

```
CA Deliver --------------- Report Selection List (1) ------------------------
Command ===> HELP                                           Scroll ===> PAGE

Sel Report ID                    Description
==> *                            *
    TTAXQ001-R01                 QUARTERLY TAX
    TTAXQ001-R05                 QUARTERLY TAX
    TTAXQ001-R10                 QUARTERLY TAX
    TTAXQ001-R15                 QUARTERLY TAX
    TTAXQ001-R20                 QUARTERLY TAX
    TTAXQ001-R25                 QUARTERLY TAX
    TTAXQ001-R30                 QUARTERLY TAX
    TTAXQ001-R35                 QUARTERLY TAX
    TTCDLY01-R06                 CREATE SMDR DAILY
    TTCDLY01-R10                 CREATE SMDR DAILY
    TTCDLY02-R01                 SIXTY MINUTE REPORT
    TTCMTH02-R01                 SDN LONG DISTANCE CHARGE SUMMARY
    TTCMTH02-R02                 PRE STORE LONG DISTANCE BILL
    TTCMTH02-R03                 PRE STORE LONG DISTANCE ZERO
    TTCMTH02-R04                 PRE STORE LONG DISTANCE JOURNALS
    TTCMTH02-R05                 PRE CCARD LONG DISTANCE BILL
    TTCMTH02-R06                 PRE CCARD LONG DISTANCE ZERO
    TTCMTH02-R07                 PRE CCARD LONG DISTANCE JOURNALS
    TTCMTH02-R08-SUMMARY-REPORT  SWB DIRECT DIAL SUMMARY
```

The system-wide commands are as follows:

- HELP

- END

- RETURN

- UP, DOWN, LEFT, RIGHT

- CURSOR

- RETRIEVE

- = (JUMP)

- KEYS

System-Wide Command Functions

The system-wide commands are described in this list.

HELP

Starts the tutorial and provides information about the panel currently displayed

HELP also provides additional information in the long message area to augment an error message that is displayed in the short message area

To start the tutorial or to display additional information in the long message area, enter HELP on the command line on the Primary Selection Menu panel.

END

Saves any changes you made on a panel, terminates the operation you are currently performing, and returns you to the previous panel

To save changes, terminate CA Deliver, and return to the previous panel, enter END on the command line on the Primary Selection Menu panel.

RETURN

Saves any changes you made on a panel, bypasses all intermediate-level panels, and returns you to the Primary Selection Menu panel

To terminate CA Deliver, go to the Primary Selection Menu panel, then enter RETURN on the command line.

UP, DOWN, LEFT, or RIGHT

Used with the scroll field options, for example, half page, full page, top, and bottom

Scroll up, down, left, or right through the text that is displayed on the current panel whenever the text extends beyond the screen borders.

To define the scroll value, enter UP, DOWN, LEFT, or RIGHT on the command line on the Primary Selection Menu panel.

Note: The scroll field options are described in Using Scroll Field Options later in this chapter.

CURSOR

Moves the cursor to the command line on the panel that is currently displayed

RETRIEVE

Displays a previously entered system-wide command or input command on the command line

Commands are recalled in a most-recent-to-earliest sequence. You can change a displayed command; the new command is processed when you press Enter.

= (JUMP)

You can jump from one operation or panel to another operation or panel without displaying the intervening panels

Enter this command (referred to as the JUMP command) on the command line.

Syntax: =x y

where x is an option and y is an operand.

The options are as follows:

- A—Active Display
- B—Bundle Data
- D—Distribution Data
- J—Job Data
- R—Report Data

The operands for option A (Active Display) are:

- B—Displays a list of active bundles
- R—Displays a list of active reports (the default)
- X—Limits the list to exceptions
- PREV—Displays a list for a previous cycle

Example: =A B immediately displays a selection list of active bundles.

Select the options and operands for the = (JUMP) command on the Primary Selection Menu panel.

KEYS

Assigns or reassigns commands to PF keys

Assigning commands to PF keys is described in Assigning and Reassigning PF Keys later in this chapter.

Entering System-Wide Commands

You can enter system-wide commands in two ways:

- Press the PF key that is assigned to the system-wide command.
- Enter the system-wide command on the command line and press Enter.

Note: The KEYS and = (JUMP) commands are not assigned to PF keys by default; you must enter these commands on the command line.

Program Function (PF) Keys

You can assign command functions to PF keys. You can use the default PF key assignments, or you can use the KEYS command to assign command functions to specific PF keys.

Note: Under SPF/ISPF, the SPF/ISPF program function key definitions and commands are used instead of the CA Deliver program function key definitions and KEYS command. The SPF/ISPF PF keys that are available and the way in which you issue the KEYS command is the same under SPF/ISPF and in CA Deliver.

Using Default PF Key Assignments

The default PF key assignments are:

PF 1 PF 13 HELP	PF 2 PF 14 SPLIT	PF 3 PF 15 END
PF 4 PF 16 RETURN	PF 5 PF 17 RFIND	PF 6 PF 18
PF 7 PF 19 UP	PF 8 PF 20 DOWN	PF 9 PF 21 SWAP
PF 10 PF 22 LEFT	PF 11 PF 23 RIGHT	PF 12 PF 24 CURSOR

This table lists the purpose of each system-wide command and the function of its corresponding PF key. The PF key functions in the table are the same as their corresponding system-wide commands.

PF Key	Function
PF 1 PF 13 HELP	HELP starts the tutorial and provides information about the panel currently displayed. Additional information is provided in the long message area to augment an error message that displays in the short message area
PF 2 PF 14 SPLIT	Under SPF/ISPF, SPLIT allows the display to be split into two logical sessions
PF 3 PF 15 END	END saves any changes you made to a panel, terminates the operation you are currently performing, and returns to the previous panel
PF 4 PF 16 RETURN	RETURN saves any changes you made to a panel, bypasses all intermediate-level panels, and returns to the Primary Selection Menu panel
PF 5 PF 17 RFIND	Locates the next occurrence of text specified on a FIND command; this function is only supported on selective table displays

PF Key	Function
PF 7 / PF 19 UP, PF 8 / PF 20 DOWN, PF 10 / PF 22 LEFT, PF 11 / PF 23 RIGHT	Scrolls up, down, left, or right through the text displayed on the current panel when the text extends beyond the screen
PF 9 / PF 21 SWAP	Under SPF/ISPF, SWAP allows the display to be switched from one logical session to another logical session
PF 12 / PF 24 CURSOR	CURSOR moves the cursor to the command line on the current panel If you press PF12 or PF24 when the cursor is on the command line and the current panel contains text that can be scrolled, the cursor moves to the scroll field. Scroll field options are described in Using Scroll Field Options later in this chapter.

Assigning and Reassigning PF Keys

The KEYS command allows you to assign or reassign system-wide command functions to PF keys.

Terminals that support 24 program function keys display the Primary Keys (PF keys 1 to 12) when the KEYS command is entered. Press Enter to switch between the Primary Keys and Alternate Keys (PF keys 13 to 24).

Terminals that support 12 program function keys have a PF Key Definition panel for PF keys 1 to 12.

To assign or reassign system-wide command functions to PF keys, do the following:

1. Enter *KEYS* on the command line of any panel, and press Enter to display the PF Key Definitions panel.

```
CA Deliver - PF Key Definitions - Primary Keys -------------------------------

Command ===>

Number of PF Keys ===> 24

PF 1 ===> HELP
PF 2 ===> SPLIT
PF 3 ===> END
PF 4 ===> RETURN
PF 5 ===> RFIND
PF 6 ===> RCHANGE
PF 7 ===> UP
PF 8 ===> DOWN
PF 9 ===> SWAP
PF10 ===> LEFT
PF11 ===> RIGHT
PF12 ===> CURSOR

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

1. Select the PF key you want to assign or reassign, and then enter the name of the command at the prompt (===>).

2. To apply the PF key assignment, press PF3 or PF15, or enter *END* on the command line.

To display the alternate PF keys (PF key 13 to 24), press Enter on the PF Key Definition Primary Keys panel. The alternate PF keys are assigned or reassigned the same as primary PF keys.

```
CA Deliver - PF Key Definitions - Alternate Keys ---------------------------
Command ===>

NOTE: The following definitions 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

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

```

To display the Primary Keys panel (PF1 – PF12), press Enter from the Alternate Keys panel.

Scroll Field Options

Use the *scroll field options* to set the number of columns or lines of text that are to be scrolled at one time when you issue an UP, DOWN, LEFT, or RIGHT system-wide command or press a PF key.

Scroll field options are:

- HALF

- PAGE

- DATA

- Any positive number

- CSR

- MAX

Using Scroll Field Options

To specify the number of columns or lines of text to scroll, enter one of the following options in the scroll field, and press Enter.

HALF or H

Scrolls half of the panel: up, down, right, or left

PAGE or P

Scrolls one full panel: up, down, right, or left

DATA or D

Scrolls one full panel less one line or one column of text in the specified direction

Note: The last line or column of the previous panel displays as the first line or column of the next panel.

This option helps to keep your place in the report.

Any positive number   Scrolls the specified number of lines or columns

CSR or C

Scrolls in the specified direction to the position of the cursor on the panel

For example, if you press PF8 or PF20, or issue the DOWN command, the line where the cursor is located moves to the top of the panel.

If you press PF7 or PF19, or issue the UP command, the line where the cursor is located moves to the bottom of the panel.

Note: This scroll field option works only when you scroll up or down; it does not work when you scroll left or right.

MAX or M

Scrolls to the top, bottom, extreme left, or extreme right region of the text

Changing Scroll Field Settings Permanently

You can change the scroll field setting permanently by entering one of the scroll options in the previous table over the old scroll option that appears in the scroll field.

The new scroll option remains in effect—even from session to session—until you change it.

Note: The MAX scroll option remains in effect for only one scroll operation.

Overriding Scroll Field Settings Temporarily

You can use two methods to temporarily override the value that appears in the scroll field.

Method 1

Enter the scroll system-wide command on the command line, followed by a blank and one of the scroll options listed in the previous table, and press Enter.

For example, enter **DOWN HALF** on the command line, and press Enter.

Text shown on the panel scrolls down one-half panel.

Method 2

Enter one of the scroll options listed in the previous table on the command line, then press the PF key that indicates the direction you want to scroll.

For example, enter **HALF** on the command line, and then press PF8 or PF20.

Text shown on the panel scrolls down one-half panel.

Input Commands

Like the system-wide commands, the *input commands* are entered on the command line of the current panel. Unlike the system-wide commands, however, input commands work on selected panels only.

```
CA Deliver ----------- Report Definition Attributes ------------------------
Command ===> CANCEL

  ID    ---> EDITREPT01                      Job    ---> TRJOB01
  Step  ---> EDITSTEP    Procstep --->        DD     ---> EDITLIST
                                              Type   --->
  Desc   ==> EDIT DATA FOR ACCOUNTING
  Arch ID ==>

Attributes:
  ARCH   ==>            BANNER ==>            BURST  ==>
  CC     ==>            CLASS  ==>            COPIES ==>
  FCB    ==>            FORM   ==>            FLASH  ==> (    ,    )
  LATE   ==>            OPTCDJ ==>            UCS    ==>
  FORMDF ==>            PAGEDF ==>            PRMODE ==>
  PRSET  ==>            PRTY   ==>            GRPID  ==>
  CHARS  ==> (     ,     ,     ,     )        MODIFY ==> (     , )
  COPYG  ==> (    ,    ,    ,    ,    ,    ,    ,    )

The following attributes may be selected by entering the 1-character selection
code on the command input line:

     B - Bundle specifications.       D - Distribution specifications.
     I — Special instructions.        T - Report identification text.
```

Input commands are:

- CANCEL

- CONFIRM

- COPY

- COPYLIST

- FIND

- LOCATE

- REDISP

- RFIND

- SELECT

- T (TRACK)

Input Command Functions

The input commands are described in this list:

CANCEL or CAN

Terminates the current panel without saving your changes

Note: The changes you make to the Reports for Job panel are saved when you enter CANCEL.

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection command. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

Examples:

To disable the Confirm Delete panel, enter the command:

```
CONFIRM OFF
```

All subsequent delete requests occur without a request for confirmation.

To enable the Confirm Delete panel, enter the command:

```
CONFIRM ON
```

All subsequent delete requests require a user to respond to a request for confirmation.

COPY identifier parm

Copies definition specifications from a panel or previously defined report to the current panel or report definition

identifier

Specify a report identifier to process a report definition.

Specify a bundle identifier to process a bundle definition.

Example: COPY VENDREPT

Copies the same panel you are using from the report named VENDREPT to the current report definition

Note: If the Report-Id contains embedded blanks, the name must be enclosed in quotes (single or double). Any quote 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".

parm

To replace all panels associated with the current panel with the complete definition (that is, all panels except the bundle specification panel data) from the named source, specify ALL.

Example: COPY VENDREPT ALL

Copies all of the Report Definition Attributes panels for the report named VENDREPT to the current report definition

To add all report identifiers of a job (when defining bundles) to the report specifications of the current job, display the Report Specifications subpanel of the Bundle Definition Attributes panel, specify a job name in place of identifier, and then specify JOB.

Example: COPY TRJOB02 JOB

Adds all report identifiers for job TRJOB02 to the report specifications of the current job.

COPYLIST

Displays a copylist subpanel where you choose from available lists (distribution IDs, report IDs, bundle IDs, and so on) to copy without reentering existing information.

FIND or F

Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel.

FIND is used on certain panels where data may not be maintained in a sorted sequence. FIND searches a specific column for data in a forward or backward direction starting at the beginning of the table, the end of the table, or from the current position.

The syntax of the FIND command is as follows:

FIND string column [FIRST | NEXT | LAST | PREV] NOT

string

identifies the search data. The string is matched against data starting in the first position of the search column. The FIND command does not locate data that is embedded within the column. If the string contains special characters, enclose the string within quotation marks. If the search string is not found, a not-found message is displayed.

Note: On the Reports for Job panel, you can omit the string specification to search for the next occurrence of a Stepname, Procstep Name, or DDname.

column

identifies the field that is to be searched. If omitted, the default or primary column is searched. The column names that can be referenced depend on the panel that is being accessed. As a rule, the heading names that appear above the column data identify the column names that can be used on the FIND command.

location

identifies the origin and direction of the search. If omitted, the search begins with the row at the top of the current display. Location specifications are as follows.

■ FIRST   Starts the search at the beginning of the table and proceeds to the end of the table

■ NEXT   Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table

■ LAST   Starts the search at the end of the table and proceeds backward to the beginning of the table

■ PREV   Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table

■ The NOT specification indicates that the column is to be searched for data that is not equal to the string specified on the FIND command.

Examples:

To search for distribution identifier JOHN on the Bundle Definition Distribution Specification panel, enter the command:

Command ===> find john

To search for the next Stepname on the Reports for Job panel, enter the command:

Command ===> find next step

To search for the first occurrence of an output indicator of Y on the Report Definition Distribution Specifications panel, enter the command:

Command ===> find y out first

To search for the last occurrence of COPIES "*" on the Distribution List panel, enter the command:

Command ===> find '*' copies last

To search for a previous stacked report definition on the Reports for Job panel, enter the command:

Command ===> find stack type prev

To search for the next occurrence of a previously entered command, enter the command:

Command ===> rfind (normally the PF5 or PF17 key)

LOCATE, LOC, or L

Finds an entry in a list of data, then scrolls to and displays that entry at the top of the panel.

If the name you specify cannot be found, the entry that alphabetically precedes the specified entry is displayed.

For example, LOC VPFIN displays the entry VPFIN at the top of the data panel. (If VPFIN is not-found in the list, the entry that alphabetically precedes it in the list—VPDATA, for example—is displayed at the top of the panel.)

Note:

■ You can only use this command on panels that contain lists of data.

■ If the Distribution-ID contains embedded blanks, enclose it in quotes (single or double). Any quote within the entry must be entered as a pair of quotes because a non-paired quote ends the entry; for example, if the value is JIM'S REPORT, enter it as 'JIM''S REPORT' or "JIM'S REPORT".

REDISP, RED, REFRESH, or REF

Redisplays a selection list or display list with the current data; recent changes and newly added data from the started task, batch jobs, or online users are shown.

Enter REDISP on the command line of the Active Report List, Active Bundle List, Bundle Selection List, Distribution Selection List, Job Selection List, and Report Selection List panels.

The REDISP command must be specifically entered to redisplay a sorted list.

Note: You can assign REDISP to a PF key or to the Enter key. For more information about redisplays, see Assigning the Redisplay Command to a PF Key in the chapter "Creating a Bundle of Reports."

RFIND

Locates the next occurrence of a previously-issued FIND command.

If another occurrence is not found, a not-found message displays. Normally, PF5 and PF17 are defined as the RFIND key.

SELECT, SEL, or S

Selects the job name, report, bundle, or distribution identifier you specify on the command.

To create a new job name, bundle identifier, or distribution identifier, you must specify a name that does not already exist. If the report identifier that you specify already exists, an error occurs.

Note: A SELECT tabular command is also available. The tabular commands that you can use with SELECT are described in the next section.

For example, SEL REPORT-R1 displays the entry REPORT-R1.

Tn hdn date time data (TRACK)

Posts a report to a station with tracking data.

A station is the physical location where you post reports and bundles. You can define up to five report stations and one printer station.

A station allows you to track the history of reports and bundles from creation to the point when the recipient receives the report or bundle copy through distribution and other post-printing processes.

where:

n

Indicates a value from 1 to 5 that represents the station to which you want to post the report

n is optional.

If you omit this value, station 1 is specified by default.

hdn

Indicates the history detail number, a unique, 10-digit number that distinguishes individual copies of a non-bundled or bundled report

History detail numbers print on banner pages and are used to track recipients of reports and bundles of reports according to the distribution identifier.

Hdn is required.

You can omit the leading zeros.

Note: For more information about historical data and detailed historical data, see the chapter "Obtaining Historical Data."

date

Indicates the date when you want the report to be posted, in the default date format

This parameter is optional.

If you omit date or enter an asterisk, the current date is used.

To omit date, enter a comma.

Note: For more information about changing the default date format, see the *Installation Guide*.

time

Indicates the time when you want the report posted, in an hh:mm format (10:45) or an hh.mm format (10.45)

This parameter is optional.

If you omit time or enter an asterisk, the current time is used. To omit time, enter a comma.

data

> Represents text you want to display in the USER DATA field on the Report Detail Historical Data and Bundle Detail Historical Data panels
>
> You can enter 1 to 12 characters in this field. If the text you specify contains embedded blanks, you must enclose the text in single quotation marks.
>
> This parameter is optional. If you omit data, your user ID is used.
>
> Examples:
>
> T 329905 posts station 1 for HDN 0000329905 with the current date and time and with your user ID as the user data.
>
> T3 1601 * * 'LATE REPORT' posts station 3 for HDN 0000001601 with the current date and time and the user data "late report."

Tabular Commands

Tabular commands are commands you use to manipulate entries displayed when you issue selected input commands (described earlier in this section).

You can use tabular commands when the Sel column is displayed on the left side of a panel.

Tabular Command Functions

There are four types of tabular commands, based on function. Use tabular commands to:

- Specify where to copy or move entries

- Select and edit entries

- Insert blank lines for new entries

- Perform a unique operation related to a specific panel

    Each of these functions is described later in this section.

Displaying Tabular Commands

To display all of the tabular commands that are available, press PF1 or PF13 or enter **HELP** on the command line, and press Enter.

To display the tabular commands that are available for the current panel in the long message area:

1. On any panel, move the cursor to any row in the Sel column, enter an invalid command such as a question mark, and press Enter.

2. Press PF1 or PF13, or enter **HELP** on the command line, and press Enter.

Example

To repeat an entry five times, enter **R5** in the Sel column next to the entry you want to repeat (in this case, the instruction SENSITIVE DATA – ASSURE SECURITY AT ALL TIMES).

```
CA Deliver ----------- Report Definition Attributes ---- Row 00001 of 00001
Command ===>                                         Scroll===>  HALF

  ID     ---> CHECKREG                       Job    ---> TRJOB02
  Step   --->              Procstep --->     DD     --->
                                             Type   --->
 Special Instructions:
Sel Instruction
R5  'SENSITIVE DATA – ASSURE SECURITY AT ALL TIMES'
****************************BOTTOM OF DATA*****************************
```

When you enter the REPEAT tabular command, the panel looks like this:

```
CA Deliver --------- Report Definition Attributes ---- Row 00001 of 00006
Command ===>                                         Scroll===>  HALF

  ID     ---> CHECKREG                       Job    ---> TRJOB02
  Step   --->              Procstep --->     DD     --->
                                             Type   --->
 Special Instructions:
Sel Instruction
    'SENSITIVE DATA – ASSURE SECURITY AT ALL TIMES'
    'SENSITIVE DATA – ASSURE SECURITY AT ALL TIMES'
    'SENSITIVE DATA – ASSURE SECURITY AT ALL TIMES'
    'SENSITIVE DATA – ASSURE SECURITY AT ALL TIMES'
    'SENSITIVE DATA – ASSURE SECURITY AT ALL TIMES'
    'SENSITIVE DATA – ASSURE SECURITY AT ALL TIMES'
****************************BOTTOM OF DATA*****************************
```

Using Tabular Commands to Copy/Move Entries

This table describes the tabular commands that you use to copy or move entries.

Tabular Command	Name	Description
A	AFTER	Indicates the line after the entry to be moved or copied Use the AFTER command with the following commands: ■ COPY tabular command ■ MOVE tabular command ■ COPY BLOCK tabular command ■ MOVE BLOCK tabular command ■ COPY input command (described earlier in this chapter)
B	BEFORE	Indicates the line before the entry to be moved or copied Use the BEFORE command with the following commands: ■ COPY tabular command ■ MOVE tabular command ■ COPY BLOCK tabular command ■ MOVE BLOCK tabular command ■ COPY input command (described earlier in this chapter)

Using Tabular Commands to Edit Entries

This table describes the tabular commands you use to edit entries.

Tabular Command	Name	Description
C	COPY	Indicates the single entry you want to copy **Note:** You must also use the B or A command to mark the line *before* or *after* the line you want to copy. See the COPY input command described earlier in this chapter.

Tabular Command	Name	Description
CC	COPY BLOCK	Indicates the first and last entries of an area you want to copy
		Place the CC command at the first and last entry you want to copy.
		You must also use the B or A command to mark the line *before* or *after* the entries you want to copy.
		Note: Also see the COPY input command described earlier in this chapter.
C*n*	COPY NUMBER	Indicates the first of *n* number of entries (inclusive) you want to copy
		You must also use the B or A command to mark the line *before* or *after* the *n* number of entries you want to copy.
		Note: Also see the COPY input command described earlier in this chapter.
D	DELETE	Indicates the single entry you want to delete
DD	DELETE BLOCK	Indicates the first and last entry of a range of entries to delete
		Pace the DD command at the first and last entry of the range you want to delete.
D*n*	DELETE NUMBER	Indicates the first of *n* number of entries (inclusive) you want to delete
M	MOVE	Indicates a single entry you want to move
		You must also use the B or A command to mark the line *before* or *after* the line you want to move.
MM	MOVE BLOCK	Indicates the first and last entries of an area you want to move
		Place the MM command at the first and last entry of the area you want to move.
		You must also use either the B or A command to mark the line *before* or *after* the area you want to move.
M*n*	MOVE NUMBER	Indicates the first of *n* number of entries (inclusive) you want to move
		You must also use either the B or A command to mark the line *before* or *after* the entries you want to move.
R	REPEAT	Indicates the single entry that you want to repeat
RR	REPEAT BLOCK	You must place the RR command at the first and last entry of the area you want to repeat.

Tabular Command	Name	Description
R*n*	REPEAT NUMBER	Indicates a line you want to repeat *n* times The line you mark is repeated *n* times below the current line.
S	SELECT	Indicates a single entry that you want to edit or display more information about

Using Tabular Commands to Insert Blank Lines

This table describes the tabular commands you use to insert blank lines (for new entries).

Tabular Command	Name	Description
I	INSERT AFTER	Marks an entry where one blank line is to be inserted below the current line
I*n*	INSERT AFTER NUMBER	Marks an entry where *n* specifies the number of blank lines that are to be inserted below the current line
P	INSERT PRIOR	Marks an entry where one blank line is to be inserted above the current line
P*n*	INSERT PRIOR NUMBER	Marks an entry where *n* blank lines are to be inserted above the current line

Using Tabular Commands for Specific Operations

The Tabular commands you use to perform specific operations on a particular panel are described in the following table:

Tabular Command	Name	Description
A	ACTIVATE	Activates all reports for a specified job
C	DISPLAY BUNDLE CONTENTS	Displays a list of active reports that comprise a bundle
F	FREE	Frees all entries for a report identifier from system ownership

Tabular Command	Name	Description
H	DISPLAY HISTORICAL DATA	Displays the historical data for an entry
J	DISPLAY JOB DATA	Displays job data for a job that creates a report
P	PRINT BUNDLE NOW	Forces a bundle to print at the next opportunity, even though all active reports in the bundle are not yet created Bundles are described in the chapter "Creating a Bundle of Reports."
PS	PRESET	Indicates how to handle the last rerun of previously produced reports that belong to specified steps **Note:** This command works only if the interface between and CA Deliver and CA 11 Restart and Tracking is set up at your site.
R	RENAME	Renames an entry Enter the new name immediately to the right of the name of the item you are renaming.
T	TRACK	Posts a report to a station with tracking data (used with report detail historical data)
TD	DELETE TRACKING DATA	Deletes tracking data for a station (used with report detail historical data)
U	INACTIVATE	Deactivates all entries for a specified item
UF	FORCEFULLY INACTIVATE	In all circumstances, entries for a specified item are forcefully deactivated **Important!** Use this tabular command only as a last resort to clean up entries in a database because some entries might be left on the spool volumes.
X	DISPLAY CROSS-REFERENCE LIST	Displays a cross-referenced list of report identifiers for a distribution identifier or distribution information for a report identifier

Tips for Using Commands

You can use wildcards and SPF/ISPF command stacks (if you have SPF/ISPF) to save time when you issue commands. This section presents general procedures that allow you to enter commands quickly and easily.

Using Wildcard Characters

A *wildcard character* is a special character you can use at the beginning, middle, or end of an identifier to represent one or more characters that identify the data you want to extract from the database.

The wildcard characters are as follows:

asterisk (*)

Represents any series of characters

question mark (?)

Represents any single character

caret (^)

Represents any single non-blank character

For example: To display a list of currently-defined distribution identifiers that begin with D27, you can select each identifier individually or use a wildcard. Enter **D D27*** on the command line of the Primary Selection Menu panel, and press Enter.

If external security is implemented, you can improve performance by using a wildcards whenever you can.

For example, instead of entering J to display a list of all jobs, enter **J ABC*** to see specific jobs that begin with ABC. For more information about using wildcard characters with external security, see the chapter "Security" in the *Reference Guide*.

Using SPF/ISPF Command Stacking

If you are using CA Deliver with the SPF/ISPF terminal management system, SPF/ISPF *command stacking* provides a shortcut command syntax that allows you to issue system-wide commands, input commands, and other commands quickly and easily. It can also cause a problem *if* your Report_Id contains the command stacking character. You cannot enter a command like R 'Payroll; Monthly' because ISPF *interprets* this as 2 commands.

Examples

Following are two examples of SPF/ISPF command stacks:

■   Use a semicolon to delimit the commands in a command stack. The semicolon functions as an Enter key or END command.

To copy distribution identifier information from the distribution identifier D27PROD to new, nonexistent distribution identifier D28PROD, do the following:

1. Display the Distribution Selection List panel.

2. Enter **S D28PROD; COPY D27PROD** on the command line.

3. Press Enter.

■ You can also use SPF/ISPF command stacks in combination with commands.

To display a list of all reports that begin with the letter S, enter **=R S*** on the command line of any panel, and press Enter.

Chapter 3: Starting

This chapter explains how to start CA Deliver from various terminal management systems:

- Native TSO

- SPF

- ISPF

- CA Roscoe

- CICS

- VTAM

Important! CA Deliver must be installed and set up before you begin this section. If the product has not been installed and set up, see your system administrator. For more information, see the Installation Guide and the Reference Guide.

This section contains the following topics:

Starting from Native TSO

To start CA Deliver from native TSO, from the ready prompt enter:

RMOTSO *hi-name*

where *hi-name* specifies the high-level name of the database you want to use,

For example, DELIVER.SYSTEM1.

Note: You can use this command in a CLIST to simplify the start process.

Starting from ISPF

To start CA Deliver from ISPF, from the ready prompt enter:

`ISPSTART PGM(RMOSPF) PARM(hi-name) NEWAPPL(RMO)`

where hi-name specifies the high-level name of the database you want to use.

For example, DELIVER.SYSTEM7.

Example

To start CA Deliver using the ISPF terminal management system:

1. Log on to your system.

2. Do one of the following, depending on whether you have a CLIST at your site that automatically invokes ISPF when you log on:

   – If you have a CLIST at your installation that automatically invokes ISPF when you log on, go to Step 3.

   – If you do not have a CLIST at your installation that automatically invokes ISPF when you log on, enter ISPF at the Ready prompt, and press Enter to display the ISPF Primary Option Menu panel.

```
---------- ISPF/PTF Primary Option Menu for System MVS01/TS06 -------
OPTION  ===> D
                                              USERID     GJONES
  0 ISPF PARMS    Specify terminal and user parameters   TIME      15:12
  1 BROWSE        Display source data or output listings TERMINAL   3278
  2 EDIT          Create or change source data            PF KEYS    24
  3 UTILITIES     Perform utility functions
  4 FOREGROUND    Invoke language processors in foreground
  5 BATCH         Submit job for language processing
  6 COMMAND       Enter TSO command or CLIST
  7 DIALOG TEST   Perform dialog testing
  C CHANGES       Display summary of changes for this release
  I ISMF          Invoke interactive storage management facility
  S IPCS          PBCS problem analysis services
  T TUTORIAL      Display information about ISPF/PDF
  D DELIVER       Invoke CA Deliver Online Facility
  U UTILITIES     Other Third Party or In-house Supported Utilities


              -
              -
  X  EXIT       Terminate ISPF using log and list defaults
Enter END command to terminate ISPF.
```

In the previous illustration, GJONES (see USERID in the upper-right corner) used the ISPF terminal management system to log on.

Note: The options displayed on your ISPF Primary Option Menu panel might be different than the options shown in the illustration.

1. Enter **D** in the OPTION field, and press Enter to start CA Deliver and display the Primary Selection Menu panel.

```
CA Deliver - Primary Selection for DELIVER.SYSTEM1 --------------------
Command ===>

  A Active Display       Display selection list of active reports or bundles.
  B Bundle Data          Display bundle data.
  D Distribution Data    Display distribution data.
  J Job Data             Display job data.
  R Report Data          Display report data.

    Operands for A:
      B        Display selection list of active bundles.
      R        Display selection list of active reports (default).
      X        Limit selection list to exceptions.
      PREV     Display selection list for previous cycle.

    Operand for B,D,J,R:
      Omit operand for complete selection list.
      Specify identifier to display data.
      Specify generic identifier for limited selection list.
      L        For D only, display list of distribution lists.

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

Starting from CA Roscoe

To start CA Deliver from CA Roscoe, from the ready prompt, enter:

CALL RMOROS '*hi-name*'

where *hi-name* specifies the high-level name of the database you want to use

For example, DELIVER.SYSTEMA.

Note: You can use this command in an RPF to simplify invocation.

Starting from CICS

To start CA Deliver from CICS, enter a predefined transaction identifier. (Your system administrator establishes this identifier during the installation.)

Starting from VTAM

To start CA Deliver from VTAM, from the ready prompt, enter:

`LOGON APPLID (RMOVTAM) DATA (`*hi-name*`)`

where *hi-name* specifies the high-level name of the database you want to use.

For example, DELIVER.SYSTEMX.

Note: Your system administrator can specify an abbreviated form of this command during the VTAM installation.

Chapter 4: Defining Basic Reports

This chapter provides you with the basic concepts of how to create a report definition using CA Deliver. You need this basic knowledge so that you can build the more complex report definitions presented in later chapters. The information explains how to:

- Define a distribution identifier and a job

- Identify reports produced by a job

- Specify report definition attributes

- Display report identifiers for a distribution identifier

- Use the undefined report identifier, UNDEF

This section contains the following topics:

What Is a Basic Report?

A basic report consists of an entire SYSOUT data set. This data set is distributed as a unit.

Note: A single banner page that contains report and distribution information is attached to both the beginning and end of a basic report.

This illustration shows a basic report. Numbered items are described after the illustration. These items are explained in more detail in the sections that follow.

```
③
②          ● * END ************************************************************* END *
①          ● END ********          AMALGAMATED AMERICAN MANUFACTURING          ******* END *
                                                                                        *
          ● TRJOB01 ***************** ACCOUNT TRANSACTION ERRORS **************** PAGE 02 *
                                                                                        *
       ● TRJOB01 ***************** ACCOUNT TRANSACTION ERRORS **************** PAGE 01   *
                                                                                        *
   * START ************************************************************ START *          *
   * START ******          AMALGAMATED AMERICAN MANUFACTURING          ****** START *    *
   * START ******         TEMPLE STREET FACILITY - LOS ANGELES, CA        ****** START * *
   * START ************************************************************** START *        *
   *      EEEEE DDDDD  IIIII TTTTTTT RRRRR  EEEEE PPPPP  TTTTTTT  0000    1        *      *
   *      E     D    D   I      T    R    R E     P    P    T     0    0  11        *     *
   *      EEEEE D    D   I      R    RRRRR EEEEE PPPPP     T     0    0  1         *      *
   *      E     D    D   I      T    R   R E     P         T     0    0  1         *      *
   *      E     D    D   I      T    R   R E     P         T     0    0  1         *      *
   *      EEEEE DDDDD  IIIII    T    R    R EEEEE P         T      0000  11111      *      *
   ************************************************************************               *
   * REPORT ID: EDITREPT01       DATE:   07/20/12                         *              *
   * JOBNAME:   TRJOB01          TIME:   07:36:04                         *              *
   * JOBID:     JOB 3697         CLASS:  E                                *              *
   ************************************************************************               *
   * SEND REPORTS TO:                                                     *              *
   *    ACCOUNTANT                                                        *              *
   *    DEPT. 29                                                          *              *
   ************************************************************************               *
   * SPECIAL INSTRUCTIONS                                                 *              *
   *    VERIFY DATA, CORRECT ERRORS AND RUN PRODUCTION WHEN READY         *              *
   *                                                                      *              *
   *                                                                      *              *
   *                                                                      *              *
   *                                                                      *
   *          .                                                           *
   *                                                                      *
   *                                                                      *
   *                                                                      *
   *                                                                      *
   *                                                                      *
   *                                                                      *
   *                                                                      *
   * START ************************************************************ START *
```

1) Start banner page

Contains the following information:

- Report identifier that you provide
  (for example, EDITREPT01)

- Job name that you provide
  (for example, TRJOB01)

- Job identifier (for example, JOB 3697)

- The Job Entry Subsystem (JES) number that is assigned to this job when it is
  initiated and executed. The system maintains the job identifier by reports for
  the job.

- Date, time, and class (for example, 07/20/2012, 07:36:04, E)

  These numbers indicate the date and time when the SYSOUT data was created
  and the SYSOUT class to which the reports are written.

- Distribution identifier (for example, ACCOUNTANT, DEPT. 29)

  You provide this information in the contents of the distribution identifier that
  indicates the report recipient .

  Note: The report recipient is either the person who receives the report, or the
  location where the report is to be distributed.

- Special instructions (for example, VERIFY DATA, CORRECT ERRORS AND RUN
  PRODUCTION WHEN READY)

  These instructions provide details about the report or tell recipients what to do
  with the report.

Note: The banner pages in this guide are slightly different than the model banner
pages that are distributed with the product. You can modify the banner pages to
suit your needs. For more information, see the Reference Guide.

2) Report data pages

Contains SYSOUT records—which an application program writes—that compose a
report

3) End banner page

Contains the same information as the start banner page

Report Identifiers

A *report identifier* is a unique string of 1 to 32 characters that identifies a report to the
system.

Examples

- EDITREPT01

- TRJOB02-R01

- U90526-R01

- RECJOB01-R01

- U50500-R01

- ACCOUNTS_PAYABLE_DAILY_REPORTS

Note: For consistency in the database, we recommend that you establish a convention for naming report identifiers. You might use the naming convention shown in the conversion utility, RMOJCL, which CA provides. In RMOJCL, report names consist of a job name, followed by a dash and Rnn (where nn represents a number).

Non-Bundled Reports

A non-bundled report is a report that contains no report identifier that appears in any definition of a bundle of reports. For more information about report bundles, see the chapter "Creating a Bundle of Reports."

Rules for Defining Report Identifiers

Follow these rules when you define report identifiers:

- The report identifier must contain 1 to 32 characters.
- The characters that can be used in the identifier name depend on the version of the database.
  - For databases starting at Version 12.0:

    Letters (A-Z), Numbers (0-9), Period (.), National characters ($,#,@), Percent sign (%), Cent sign (¢), Exclamation mark (!), Slash (/), Underscore (_), Dash (-), Blank ( ), Left parentheses"(", Right parentheses ")", Plus (+), Bar (|), Ampersand (&), Semicolon (;), Not Sign (¬), Broken bar (¦), Comma (,) Less than (<) , Greater than(>),Equal (=), Question mark(?), Colon(:), Single quote('), or Double quote(").

    Leading blanks are not valid.
  - For database versions prior to Version 12.0:

    The characters of the identifier name can be: Letters, Numbers, Period, National character ($, #, @), Percent sign (%), Cent sign (¢), Exclamation mark (!), Slash (/), Underscore (_), or Dash (hyphen).

    Do not use blanks or any special characters that are not in this list.

Job Names

A *job name* is a unique string of 1-to 8-characters that identifies the job that produces the SYSOUT from which the reports are produced.

Example

TRJOB02

Rules for Creating Job Names

Follow these rules when creating job names:

- The job name must contain 1 to 8 characters.

- The first character must be a letter or national character ($, #, @); subsequent characters can be digits.

- Do *not* use blanks or other special characters.

Note: A jobname is not the same as a job identifier, which is described later in this chapter.

Distribution Identifiers

A distribution identifier, or DISTID, is a unique string of 1 to 32 characters that indicates the person or location where a report is to be distributed.

Typically, distribution identifiers are defined at implementation by a system administrator. Occasionally, distribution points must be modified at your site.

Examples

This table provides some examples of distribution identifiers:

D27PROD

A production supervisor in department 27

TS015KMG

Karen M. Green who works in technical support, department 015

DCMSALES

A sales department within the data center management group

ACCOUNTING_DEPARTMENT

The entire accounting department

BLDG34IS

Building 34, within an information systems division

MS12H001

Mail stop 12, drop point H001

SS24FRED

A manager named Fred in software support group 24

OPS10PRD

The operations staff, unit 10, within a production group

Note: For consistency in the database, we recommend that you establish a naming convention for distribution identifiers. You might use the same system you use to name department identifiers.

Rules for Defining Distribution Identifiers

Follow these rules when defining distribution identifiers:

■ The DISTID must contain 1 to 32 characters.

■ The characters that can be used in the identifier name depend on the version of the database.

 – For databases starting at Version 12.0:

 Letters (A-Z), Numbers (0-9), Period (.), National characters ($,#,@), Percent sign (%), Cent sign (¢), Exclamation mark (!), Slash (/), Underscore (_), Dash (-), Blank ( ), Left parentheses"(", Right parentheses ")", Plus (+), Bar (|), Ampersand (&), Semicolon (;), Not Sign (¬), Broken bar (¦), Comma (,) Less than (<), Greater than(>), Equal (=), Question mark(?), Colon(:), Single quote('), or Double quote(").

 Leading blanks are not valid.

 – For database versions before Version 12.0:

 The characters of the identifier name can be: Letters, Numbers, Period, National character ($, #, @), Percent sign (%), Cent sign (¢), Exclamation mark (!), Slash (/), Underscore (_), or Dash (hyphen).

 Do not use blanks or any special characters that are not in this list.

Using the Report Definition Attributes Panel

Use the Report Definition Attributes panel to specify report attributes.

Report definition attributes are a set of parameters you specify for a report.

For example, the LATE report definition attribute indicates the time when a report is to be marked late if it is not queued for printing.

By default, the system uses the attributes specified in the Job Control Language (JCL) for the reports. There is generally no need to specify overrides to the attributes in the report definitions.

However, you might want to add or modify some of the non-JCL attributes for reports—for example, late time, archive criteria, report description, and special instructions.

```
CA Deliver ------------- Report Definition Attributes -----------------------
Command ===>

  ID     ---> EDITREPT01                         Job    ---> TRJOB01
  Step   ---> EDITSTEP    Procstep --->          DD     ---> EDITLIST
                                                 Type   --->
  Desc    ===>
  Arch ID ===>

Attributes:
  ARCH   ===>            BANNER ===>             BURST  ===>
  CC     ===>            CLASS  ===>             COPIES ===>
  FCB    ===>            FORM   ===>             FLASH  ===> (    , )
  LATE   ===>            OPTCDJ ===>             UCS    ===>
  FORMDF ===>            PAGEDF ===>             PRMODE ===>
  PRSET  ===>            PRTY   ===>             GRPID  ===>
  CHARS  ===> (     ,     ,     ,     )          MODIFY ===> (  , )
  COPYG  ===> (     ,    ,    ,    ,    ,    ,    ,    )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.      D - Distribution specifications.
     I — Special instructions.       T - Report Identification text.
```

This list describes the attribute fields on the Report Definition Attributes panel:

Desc

The 1- to 40-character brief description of the report.

Arch ID

The 1- to 32-character archive report identifier.

Note:

If an Arch ID is provided, the report appears in CA View under that name.

This field is not displayed for dynamic type reports.

ARCH

Enter 1 to 99 sets of criteria for archiving reports

Each set of criteria (which you define by an initialization parameter) specifies the following:

- The direct-to-View database, the archive medium (disk or tape), or both, that CA View uses to archive a report

- The SYSOUT class, destination, and forms name CA Deliver uses to create a copy of the report that is to be transmitted to CA View

You can enter a blank or a value between 0 and 99 in this field.

Valid values are:

0 - Suppress the archiving of a report

Blank - Use the default value defined by the initialization parameter ARCH

Note: For more information about the ARCH parameter, see the Reference Guide.

BANNER

Enter the name of the model banner page to print at the beginning and end of a report

Valid values are:

* -   Suppress banner page printing

Blank - Print the default model banner page defined by the initialization parameter BANNER

Note: For more information about the BANNER initialization parameter, see the Reference Guide.

BURST

Specify whether a report is to be burst into separate sheets when it is printed on an IBM 3800 printer

Valid values are:

Y—Burst the report

N—Do nothing with the report

Blank—Use the value specified in the JCL for the job that created the report

CC

Enter the type of carriage control characters to use in the report

Valid values are:

M—Use machine control characters

A—Use ASA control characters

A single-character identifier—Use the set of control characters you define

Blank—Use the carriage control specification from the DCB/ACB for the report

CLASS

Enter the SYSOUT class for the report

Valid values are:

A single alphanumeric character—Use the SYSOUT class character you define

Blank—Use the SYSOUT class specified in the JCL for the job that created the report

COPIES

Specify whether to print the report on single- or multi-part paper

Valid values are:

Y or Blank—Use the copies DD parameter that specifies the number of grouped distribution identifiers to use when the report is written to spool

N—Assume COPIES = 1

Note: For more information about the copies DD parameter, see the Reference Guide.

FCB

Enter the name of the forms control image to use to print a report

Blank--the forms control image specified in the JCL for the job that created the report is used.

'*'--The forms control image specified in the JCL for the job that created the report is ignored, and the report is printed as if no forms control image had been specified.

FORM

Enter the name of the special form on which the report is to be printed or punched

Blank -- The forms control image specified in the JCL for the job that created the report is used.

Note: OUTPUT JCL statements might not be available for processing; in this case, only the first four characters of the form are used.

OUTPUT JCL can be unavailable if the initialization parameter OUTPUT is set to OUTPUT=NO or is set to the default.

FLASH

Enter the name of the forms overlay to be used when a report is to be printed on an IBM 3800 printer and the number of copies is to be flashed with the overlay

Blank --, The forms overlay name and count specified in the JCL for the job that created the report is used.

'*' -- The forms overlay name and count specified in the JCL for the job that created the report is ignored. The report is printed as if no forms overlay name and count had been specified.

LATE

Enter the time as a 24-hour clock in an hh:mm format when a report is to be marked late if it is not queued for printing

Example: 09:35 represents 9:35 a.m., and 15:45 represents 3:45 p.m.

Blank -- The system does not check to see if the report is late.

Note: When you specify the late time, enter 00:01 (not 00:00) and 23:59 (not 24:00).

OPTCDJ

Specify whether the report contains IBM 3800 printer table reference characters

Y—The report contains IBM 3800 printer table reference characters

N or Blank—The report does not contain IBM 3800 printer table reference characters

UCS

Enter the name of the special character set used to print a report

Blank--The character set name specified in the JCL for the job that created the report is used.

'*' -- The character set name specified in the JCL for the job that created the report is ignored and the report is printed as if no character set name had been specified.

FORMDF

Enter the name of the form definition used to print a report on an IBM 3800 printing subsystem

Blank--The form definition name specified in the JCL for the job that created the report is used.

Note: If OUTPUT JCL statements are not available for processing (that is, if the initialization parameter OUTPUT is set to OUTPUT=NO or is set to its default), the form definition name is ignored.

PAGEDF

Enter the name of the page definition to be used to print a report on an IBM 3800 printing subsystem

Blank--The page definition name specified in the JCL for the job that created the report is used.

OUTPUT JCL statements might not be available for processing; in this case, only the first four characters of the form are used.

Note: OUTPUT JCL can be unavailable if the initialization parameter OUTPUT is set to OUTPUT=NO or is set to the default,

PRMODE

Enter the process mode required to print a SYSOUT data set

Valid values are:

LINE—Sends the data set to a line mode printer

PAGE—Sends the data set to a page mode printer

Specific 1- to 8-character mode name—Sends the data set to a mode printer defined for your site

PRSET

Enter the name of the printer setup member in the database used for a report

You can use this member to enter XEROX DJDE parameters or for any other information that you want to precede the report data.

If specified, the printer setup records are appended to the report immediately after the report banner page but before the first record in the report.

If omitted, printer setup records are not appended to the report.

Note: You use the RMODBASE utility PLOAD control statement to add PRSET members to the database. For more information, see RMODBASE in the Reference Guide.

PRTY

Enter the priority for a SYSOUT data set to enter the output queue

You can specify a decimal value between 1 (lowest priority) and 255 (highest priority) or a space or 0. If a space or 0 is entered, it is treated as a null and it nullifies any existing PRTY value.

A higher priority data set prints sooner.

GRPID

Enter the 1-8 character name of the output group to be used when the report is printed. Groupid is only valid on JES2 systems. If an archival copy of the report is sent to a View FSS collector, this name identifies the member name in the SARINDEX data set which contains archive control statements for the report.

CHARS

Enter the names of the character arrangement tables that are used when a report prints on an IBM 3800 printer

Specify 1 to 4 names in this field.

Blank--The character arrangement table names specified in the JCL for the job that creates the report are used.

MODIFY

Enter the name of the copy modification module and table reference character used when a report prints on an IBM 3800 printer

Blank--The copy modification module name and table reference character that are specified in the JCL for the job that created the report are used..

COPYG

Enter the number of copies of each page that are to be grouped together when a report prints on an IBM 3800 printer

If blank, the IBM 3800 copy groups specified in the JCL for the job that created the report are used.

Defining Basic Reports

Important! Use a test database to follow this procedure so that you do not inadvertently change or lose data in your production database.

This list is an overview of the steps required to define a basic report. Subsequent sections of this chapter provide detailed instructions for these steps.

From the Primary Selection Menu panel:,

■   Step 1: Define a Distribution Identifier

■   Step 2: Define a Job so that CA Deliver can select reports by Ddname, Form, Writer, Class, or Dest.

   CA Deliver can select reports by DDname, Form, Writer, Class, or Dest.

   The DDname Specifies the 1-to 8-character name of the DD statement where the report is to be written. DDname can also be used to specify the JCL forms, Writer, Class, or Dest name for the DD statement.

   The forms, writer, class, or dest name is specified as F=xxxxxxxx, W=xxxxxxxx, C=xxxxxxxx, or D=xxxxxxxx in DDname.

Note: When you select by CLASS, up to 8 selection classes can be specified.

   Class selection is only available for SYSOUT classes allowed by the Deliver SYSCLSL parameter

■   Step 3: Identify the Reports for the Job

■ Step 4: Specify Report Definition Attributes

These attributes identify the report recipient and specify instructions that are listed on the report's banner pages.

■ Step 5: Submit the Job

When you submit the job, the system retrieves the report from the application program you specified in the JCL for the job (ACCEDIT in the scenario presented in the next two sections), adds a banner page in the front and at the end of each report, and then prints the report for distribution.

Scenario

In this scenario, you are George Jones, a new employee of Amalgamated American Manufacturing. You are a systems programmer working in Department 27. You work in Building A32 at the Temple Street facility.

Your manager asks you to define the JCL for a job that produces a list of accounting transactions for CA Deliver.

Your manager provides the following instructions:

■ The values are:
   – The name for this job is TRJOB01
   – The stepname is EDITSTEP
   – The report ddname is EDITLIST
   – The name (or identifier) of the report is EDITREPT01.

■ Three copies of the report are to be distributed:
   – One to the production supervisor who will ensure that the report is reviewed, that the data is corrected, and that the corrected data is fed into a subsequent run
   – One to the accountant
   – One to you for verification.

■ The report is to be marked late if it is not completed by 8:00 a.m.

The report is not to be archived.

Example of Your First JCL

Use a text editor to prepare a data set that contains the JCL for the job, as shown below:

```
//TRJOB01 JOB MSGCLASS=A,
//         NOTIFY=D27SYSP4,CLASS=X
//EDITSTEP EXEC PGM=ACCEDIT
//INPUT1   DD  DSN=ACCT.ACCOUNTS.TABLES,
//         DISP=OLD
//**
//INPUT2   DD  DSN=ACCT.VENDOR.DATA,
//         DISP=OLD
//EDITLIST DD  SYSOUT=E
```

Major Elements of Your First JCL

This is a description of the major elements of your first JCL:

//INPUT1   DD DSN=ACCT.ACCOUNTS.TABLES,

//   DISP=OLD

A data set that contains the valid accounts for vendors

//INPUT2   DD DSN=ACCT.VENDOR.DATA,

//   DISP=OLD

The transactions to edit

//EDITLIST DD SYSOUT=E

A report that contains a list of errors

Step 1: Define a Distribution Identifier

The first step in defining a basic report is to define a distribution identifier for the report recipient.

As you learned earlier, a *distribution identifier*, or DISTID, is a unique 1- to 32-character string that indicates the *report recipient* (the individual or location where a report is to be distributed).

Note: To issue commands quickly and easily, you can use wildcards and SPF/ISPF command stacks (if you have SPF/ISPF). For more information, see Tips for Using Commands in the chapter "Basics."

1. On the command line of the Primary Selection Menu panel, enter **D**, a space, and **D27SYSP4,** the distribution identifier you are assigning to yourself).

```
 CA Deliver - Primary Selection for DELIVER.SYSTEM1 -------------------------
 Command ===> D D27SYSPA

   A Active Display    - Display selection list of active reports or bundles.
   B Bundle Data       - Display bundle data.
   D Distribution Data - Display distribution data.
   J Job Data          - Display job data.
   R Report Data       - Display report data.

     Operands for A:
       B     - Display selection list of active bundles.
       R     - Display selection list of active reports (default).
       X     - Limit selection list to exceptions.
       PREV  - Display selection list for previous cycle.

     Operand for B,D,J,R:
       Omit operand for complete selection list.
       Specify identifier to display data.
       Specify generic identifier for limited selection list.
       L     - For D only, display list of distribution lists.

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

2. Press Enter to display the Distribution Data for Distid panel for your new
    distribution identifier.

```
 CA Deliver - Distribution Data for Distid: D27SYSP4 -------------------------
 Command ===>

 Destination:
   Dest    ==>                        CA Connect Node ==> NO  ( YES or NO )
   Writer  ==>
   Class   ==>
   Email   ==>
   EFormat ==>
   WebSvr  ==>

 Distribute to:
    ==>
    ==>
    ==>
    ==>
    ==>
    ==>
    ==>
    ==>
    ==>
```

3. Enter the address information that you want to print on each banner page of the
    report to be distributed to you, as shown in the next illustration.

    Note: The address data can be 1 to 9 lines, and each line can be 1–72 characters.
    Lines 1 to 6 print on the banner page for the report; you can modify the banner
    page to contain all 9 lines.

```
CA Deliver - Distribution Data for Distid: D27SYSP4 -------------------------
Command ===>

Destination:
  Dest    ===>                    CA Connect Node ===> NO  ( YES or NO )
  Writer  ===>
  Class   ===>
  Email   ===>
  EFormat ===>
  WebSvr  ===>

Distribute to:
  ===> DEPT 27 - SYS PROG (GEORGE)
  ===> GEORGE JONES
  ===> BLDG A 32 - MS 55 A
  ===> TEMPLE STREET FACILITY
  ===>
  ===>
  ===>
  ===>
  ===>
```

4. Enter **END** on the command line and press Enter to add and save the distribution data.

   The message DISTRIBUTION ID SAVED displays in the short message area.

5. Enter **D** on the command line, and press Enter to display the Distribution Selection List panel, which contains a complete list of distribution identifiers.

```
  CA Deliver ------------ Distribution Selection List (1) ----------------------
  Command ===>                                             Scroll ===> PAGE

Sel Distribution ID             Line 1                               List
===> *                          *                                    *
    DEPARTMENT 01 PRESIDENT      DEPT 01 — PRESIDENT
    DEPARTMENT 01 VICE PRESIDENT DEPT 01 - VICE PRESIDENT
    D25FILE                      DEPT 25 - FILE ROOM
    D25LIB                       DEPT 25 - FILE ROOM
    D25MGR                       DEPT 25 - MANAGER
    D25PER1                      DEPT 25 - CLERK LEVEL 1
    D25PER2                      DEPT 25 - CLERK LEVEL 2
    D27FILE                      DEPT 27 - FILE ROOM
    D27LIST                      DEPT 27 — DISTRIBUTION GROUP          YES
    D27MGR                       DEPT 27 - MANAGER
    D27PROD                      DEPT 27 - PRODUCTION SUPERVISOR
    D27SYSP1                     DEPT 27 - SYS PROG (BRIAN JAMES)
    D27SYSP2                     DEPT 27 - SYS PROG (MARY BROWN)
    D27SYSP3                     DEPT 27 - SYS PROG (BILL SMITH)
    D27SYSP4                     DEPT 27 - SYS PROG (GEORGE JONES)
    D28FILE                      DEPT 28 - FILE ROOM
    D28LIB                       DEPT 28 - LIBRARIAN
    D28MGR                       DEPT 28 - MANAGER
    D29ACCT                      DEPT 29 - ACCOUNTANT
```

6. Scan the list for **your** new distribution identifier D27SYSP4.

You are now ready to verify the distribution data.

In the SEL column, move the cursor down to your distribution identifier D27SYSP4 and enter S (for Select).

```
 CA Deliver ------------ Distribution Selection List (1) ----------------------
  Command ===>                                             Scroll ==> PAGE

Sel Distribution ID                Line 1                                  List
 ==> *                             *                                       *
     DEPARTMENT 01 PRESIDENT       DEPT 01 — PRESIDENT
     DEPARTMENT 01 VICE PRESIDENT  DEPT 01 - VICE PRESIDENT
     D25FILE                       DEPT 25 - FILE ROOM
     D25LIB                        DEPT 25 - FILE ROOM
     D25MGR                        DEPT 25 - MANAGER
     D25PER1                       DEPT 25 - CLERK LEVEL 1
     D25PER2                       DEPT 25 - CLERK LEVEL 2
     D27FILE                       DEPT 27 - FILE ROOM
     D27LIST                       DEPT 27 — DISTRIBUTION GROUP             YES
     D27MGR                        DEPT 27 - MANAGER
     D27PROD                       DEPT 27 - PRODUCTION SUPERVISOR
     D27SYSP1                      DEPT 27 - SYS PROG (BRIAN JAMES)
     D27SYSP2                      DEPT 27 - SYS PROG (MARY BROWN)
     D27SYSP3                      DEPT 27 - SYS PROG (BILL SMITH)
 S   D27SYSP4                      DEPT 27 - SYS PROG (GEORGE JONES)
     D28FILE                       DEPT 28 - FILE ROOM
     D28LIB                        DEPT 28 - LIBRARIAN
     D28MGR                        DEPT 28 - MANAGER
     D29ACCT                       DEPT 29 - ACCOUNTANT
```

7.   Press Enter to display the Distribution Data for Distid panel.

```
CA Deliver - Distribution Data for Distid: D27SYSP4 -------------------------
Command ===>

Destination:
  Dest    ===>                    CA Connect Node ===> NO  ( YES or NO )
  Writer  ===>
  Class   ===>

  Email   ===>

  EFormat ===>

  WebSvr  ===>

Distribute to:

    ===> DEPT 27 - SYS PROG (GEORGE)
    ===> GEORGE JONES
    ===> BLDG A 32 - MS 55 A
    ===> TEMPLE STREET FACILITY
    ===>
    ===>
    ===>
    ===>
    ===>
```

See Defining Basic Reports for more information.

Do the following:

1.   Scan the **panel** for accuracy.

    Note: To edit information on this panel, enter new information over the old
    information displayed and press Enter.

2.   Enter **RETURN** on the command line, and press Enter to display the Primary
    Selection Menu panel.

Try It Yourself!

Try to define a distribution identifier for the production supervisor, whose distribution
identifier is D27PROD, and for the accountant in Department 29, whose distribution
identifier is D29ACCT.

Step 2: Define a Job

The second step in defining a basic report is to specify a name for the job that creates
the reports. Use TRJOB01, the name you specified in your first JCL for the job.

1. On the command line of the Primary Selection Menu panel, enter **J**, a space, and then the job name **TRJOB01**.

```
CA Deliver - Primary Selection for DELIVER.SYSTEM1 --------------------------
Command ===> J TRJOB01

  A Active Display    - Display selection list of active reports or bundles.
  B Bundle Data       - Display bundle data.
  D Distribution Data - Display distribution data.
  J Job Data          - Display job data.
  R Report Data       - Display report data.

    Operands for A:
      B    - Display selection list of active bundles.
      R    - Display selection list of active reports (default).
      X    - Limit selection list to exceptions.
      PREV - Display selection list for previous cycle.

    Operand for B,D,J,R:
      Omit operand for complete selection list.
      Specify identifier to display data.
      Specify generic identifier for limited selection list.
      L    - For D only, display list of distribution lists.

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

2. Press Enter to display the Reports for Job panel.

```
CA Deliver ---------------- Reports for Job: TRJOB01 ------- Row 00001 of 00010
Command ===>                                                Scroll ===> PAGE

Desc    ===>
Prevrun ===>

Sel Stepname Procstep DDname    Report ID                    Type    Prevrun




*************************** BOTTOM OF DATA ****************************
```

Note: Both PREVRUN fields shown on the Reports for Job panel work only when CA 11 is installed and set up for use with CA Deliver at your site.

Step 3: Identify the Reports for the Job

This section describes how to identify a report that is produced by a job. As previously specified, the stepname for the job is EDITSTEP, the report ddname is EDITLIST (both of which you specified in the JCL) and the report name, or identifier, is EDITREPT01.

1. On the Reports for Job panel, after the Desc field prompt, enter **EDIT OF ACCOUNTING DATA**.

2. Enter **EDITSTEP** under Stepname.

3. Enter **EDITLIST** under DDname.

4. Enter **EDITREPT01** under Report ID.

   Note: Leave the Type field blank to indicate that you want to use the default (a basic report).

5. Press Enter to display the Report Definition Attributes panel.

```
CA Deliver ------------- Report Definition Attributes -----------------------
Command ==>

  ID     ---> EDITREPT01                        Step   ---> EDITSTEP
  Job    ---> TRJOB01      Procstep --->         DD     ---> EDITLIST
                                                 Type   --->
  Desc   ==> EDIT OF ACCOUNTING DATA
  Arch ID ==>

Attributes:
  ARCH   ==>             BANNER ==>              BURST  ==>
  CC     ==>             CLASS  ==>              COPIES ==>
  FCB    ==>             FORM   ==>              FLASH  ==> (   ,   )
  LATE   ==>             OPTCDJ ==>              UCS    ==>
  FORMDF ==>             PAGEDF ==>              PRMODE ==>
  PRSET  ==>             PRTY   ==>              GRPID  ==>
  CHARS  ==> (     ,     ,     ,      )          MODIFY ==> (   ,   )
  COPYG  ==> (     ,    ,    ,    ,    ,    ,    ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.       D - Distribution specifications.
     I - Special instructions.        T — Report identification text.
```

Step 4: Specify Report Definition Attributes

Recall that you were instructed to *not* archive the report and to mark the report late if it is not completed by 8:00 a.m.

This section describes how to specify those report definition attributes.

Note: Any lowercase characters you enter on the panels are automatically converted to uppercase.

Defining Reports for Output Using the External Print Interface

Set the report up, then perform the procedure to complete the definition.

Set up

To successfully set up a report for output using the CA View external print interface, you must do the following:

- Ensure that the CA Deliver report is non-bundled.

  Note: A *non-bundled report* is a report that contains no report identifier in any definition of a bundle of reports.

  For more information about non-bundled reports, see the chapter "Creating a Bundle of Reports."

- Enter **Y** under Out on the Report Definition Attributes panel to create printed output (rather than view only output) for recipients of the report.

- Use the direct-to-View archival feature to archive the report to CA View.

  For more information, see the 'Archiving and Reprinting Reports' chapter.

- In the Dest field on the Distribution Specifications subpanel, identify the software product to which the report is to be output, and identify the external print interface to be used (JES data set or dynamic program call).

  Note: The CA View external print interface is described in the *CA View Reference Guide*.

Procedure

1. On the Report Definition Attributes panel, enter **EDIT DATA FOR ACCOUNTING** in the Desc field.

2. Enter **0** in the Arch field to specify that the report is not to be archived.

3. Enter **08:00** in the Late field, and press Enter.

   Specifying a late time of 08:00 does not ensure that this report is queued by 8:00 a.m. If the report is queued after 8:00 a.m., the report is flagged on the Active Report List panel.

   Note: Values specified in the JCL for the job and as initialization parameters are used because you left the remaining fields on the panel blank. The default banner page at your site is used because you left the Banner field blank.

4. Enter **D** on the command line, and press Enter to display the Distribution Specifications subpanel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010

Command ===>                                              Scroll ===> PAGE



  ID    ---> EDITREPT01                        Job   ---> TRJOB01
  Step ---> EDITSTEP      Procstep --->                DD    --->
EDITLIST
                                               Type --->


Distribution Specifications:                            Writer/   Days
Sel Grp Distribution ID              Out Dest           Eformat  MTWTFSS




***************************** Bottom of Data *****************************
```

5. Enter the three destination identifiers **D27PROD**, **D29ACCT**, and **D27SYSP4** in the Distribution ID field, and press Enter.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010

Command ===>                                              Scroll ===> PAGE



  ID    ---> EDITREPT01                   Job   ---> TRJOB01
  Step ---> EDITSTEP    Procstep --->      DD    ---> EDITLIST
                                           Type --->


Distribution Specifications:                            Writer/   Days
Sel Grp Distribution ID              Out Dest           Eformat  MTWTFSS
        D27PROD
        D29ACCT
        D27SYSP4




***************************** Bottom of Data *****************************
```

Leave the remaining fields on the subpanels blank. The blank specifies these default settings.

Grp

Keeps this report separate from the previous report

Out

Creates printed output for the recipient and tracks the report

Dest

Uses the report destination that is specified in the JCL

Writer

Uses the external writer name to process the report

Days

Distributes the report all days of the week

Copies

Prints only one copy of the report for each distribution identifier

Rview

Allows others to select any view of this report and to use the VIEW command

Reprt

Allows others to reprint this report

Del

Allows others to delete this report

This list describes the fields on the Report Distribution Specifications subpanels.

Sel

Used to enter tabular commands in this column

Grp

Indicates that the distribution identifier is to be grouped with the previous identifier

Enter any character

Leave this field blank to indicate that the distribution identifier is not to be grouped.

Distribution ID

Identifies the report recipient

Out

Specifies whether output is to be printed, tracked, or untracked for view only

Values are:

T—Creates tracked, view-only output

Y—Creates printed output

N—Creates view-only output (not printed or tracked)

E—Sends email notification to recipient

Dest

Specifies a destination where the report is to be printed

Blank—Use the value specified in the JCL.

Blank is the default.

Writer/ EFormat

The name of an external writer that is to process the report

Blank—Accepts the value specified on the Distribution Data panel or in the JCL used to create the report

'*' --The external writer name specified in the JCL for the job that creates the report is ignored, and the report is printed without the external writer.

For reports that are being emailed (Out field set to E), this field specifies the name of the EFORMAT member to be used to format the email notification.

If omitted, the EFORMAT member defined to the distribution identifier or defined on the EFORMAT initialization parameter is used..

Days MTWTFSS

The days of the week (Monday to Sunday) that printed output or email notification can be generated

Valid values for each of the days of week are as follows:

Y—Allows printed output or email notification

N—Prevents printed output or email notification

The default for days is YYYYYYY.

The day of the week by default is based on the day that the job was submitted and the setting of the BEGINDAY initialization parameter.

Note: Jobs submitted prior to the BEGINDAY setting are considered part of the previous day's cycle.

Copies

The number of copies to be sent to the recipient

Rview

Specifies whether the recipient has restricted viewing privileges for the report within CA View, which provides viewing through non-secured logical views and prevents the use of the VIEW command

Valid values are Y, N, and Blank.

Reprt

Specifies whether recipients can reprint the report within CA View

Valid values are Y, N, and Blank.

Del

Specifies whether recipients can delete the report from archive or alter the archive status within CA View

Valid values are:

Y—Recipients can delete the report from archive or alter the archive status

N—Recipients cannot delete the report or alter the archive status

6. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

The distribution identifiers you specified are entered into the database.

Note: If a distribution identifier you enter on the Distribution Specifications subpanel is not currently defined, the Distribution Data for ID panel is displayed. Use this panel to enter the distribution data for the undefined distribution identifier.

7. Enter **I** on the command line and press Enter to display the Special Instructions subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                 Scroll ===> PAGE

  ID    ---> EDITREPT01                          Step   ---> EDITSTEP
  Job   ---> TRJOB01      Procstep --->          DD     ---> EDITLIST
                                                 Type   --->
 Special Instructions:
Sel Instruction










****************************** Bottom of Data ******************************
```

8. Enter the special instructions **VERIFY DATA**, **CORRECT ERRORS AND RUN PRODUCTION WHEN READY** below the Instruction field, and press Enter.

    The special instructions you entered are automatically enclosed in single quotation marks and lowercase characters are automatically converted to uppercase.

9. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

10. Enter **END** on the command line and press Enter to display the Reports for Job panel.

    The message EDITREPT01 SAVED is displayed in the short message area, and the message *ADDED* is displayed in the Reports for Job panel message area. The report you defined is added to the database.

11. Enter **END** on the command line and press Enter to display the Primary Selection Menu panel.

    The message TRJOB01 SAVED is displayed in the short message area. The job is added to the database. You are now ready to submit the job.

Step 5: Submit the Job

When you submit the job, the following actions occur:

- The system retrieves the report from the application program that you specified in the JCL for the job (ACCEDIT in this example).
- A banner page is added to the front and end of each report.
- The report is printed for distribution.

After you submit the job, you can review the results.

Reviewing the Results

This section describes how to test the delivery instructions you set up and review the results.

These two sections explain the techniques you can use to review the setup of your reports.

Displaying Report Identifiers for a Distribution Identifier

1. Enter **D** on the command line of the Primary Selection Menu panel, and press Enter to display the Distribution Selection List panel.

   This panel contains a complete list of distribution identifiers.

2. Scan the list of distribution identifiers for the distribution identifier for which you want to display report identifiers.

3. Enter **X** in the Sel column in front of the distribution identifier you want to display on the Distribution Selection List panel.

```
 CA Deliver ------------ Distribution Selection List (1) ----------------------
 Command ===>                                                Scroll ===> PAGE

 Sel Distribution ID              Line 1                              List
 ===> *                           *                                   *
 X   DEPARTMENT 01 PRESIDENT      DEPT 01 — PRESIDENT
     DEPARTMENT 01 VICE PRESIDENT DEPT 01 - VICE PRESIDENT
     D10MRKT                      DEPT 10 - MARKETING
     D27PROD                      DEPT 27 — PRODUCTION SUPERVISOR
     D27SYSP4                     DEPT 27 — SYS PROG (GEORGE JONES)
     D29ACCT                      DEPT 29 — ACCOUNTANT
     D29AP                        DEPT 29 — ACCOUNTS PAYABLE
     D30SMG0                      DEPT 30 — SALES MANAGER REGION 1
     D30SMG02                     DEPT 30 — SALES MANAGER REGION 2
     D30SMG03                     DEPT 30 — SALES MANAGER REGION 3
```

4. Press Enter to display the Report Xref for Distid panel.

```
CA Deliver - Report Xref for DISTID (1) ------------------- Row 00001 of 00003
Command ===>                                            Scroll ===> PAGE

  ID    ---> DEPARTMENT 01 PRESIDENT
                                                     Writer/  Days
Sel Report ID                    Out C Dest         Eformat  MTWTFSS
===> *                            *  * *             *        *
    U59868-R01                    Y                           YYYYYYY
    U90526-R03                    Y                           YYYYYYY
    U90526-R04                    Y                           YYYYYYY
***************************** Bottom of Data *****************************
```

5. To display the report copies and the CA View viewing, reprint, and delete indicators that are defined to the report identifier, press the RIGHT or LEFT PF key.

```
CA Deliver - Report Xref for DISTID (2) ------------------- Row 00001 of 00003
Command ===>                                            Scroll ===> PAGE

  ID    ---> DEPARTMENT 01 PRESIDENT

Sel Report ID                    Out Copies Rview Reprt Del
===> *                            *          *    *     *
    U59868-R01                    Y   1      N    Y     Y
    U90526-R03                    Y   1      N    Y     Y
    U90526-R04                    Y   1      N    Y     Y
***************************** Bottom of Data *****************************
```

6. To display the job name, stepname, procedure step name, and ddname that are defined to the report identifier, press the RIGHT or LEFT PF key.

```
CA Deliver - Report Xref for DISTID (3) ------------------- Row 00001 of 00003
Command ===>                                              Scroll ===> PAGE

  ID     ---> DEPARTMENT 01 PRESIDENT

Sel Report ID                      Jobname  Stepname Procstep DDname
===> *                             *
    U59868-R01                     U59868   FINASTEP          REPORTF
    U90526-R03                     U90526   SALESTEP          REPORTS
    U90526-R04                     U90526   SALESTEP          REPORTS
***************************** Bottom of Data *****************************
```

7. To display the distribution lists that are defined to the report identifier, press the RIGHT or LEFT PF key.

```
CA Deliver - Report Xref for DISTID (4) ------------------- Row 00001 of 00003
Command ===>                                              Scroll ===> PAGE

  ID     ---> DEPARTMENT 01 PRESIDENT

Sel Report ID                      Distribution List
===> *                             *
    U59868-R01                     DEPARTMENT 01 PRESIDENT DIST LIST
    U90526-R03                     DEPARTMENT 01 PRESIDENT DIST LIST
    U90526-R04                     DEPARTMENT 01 PRESIDENT DIST LIST
***************************** Bottom of Data *****************************
```

Defining an UNDEF Report Identifier

An UNDEF report identifier, which you define to the database, functions as a "catch all" for report definitions. It works this way:

■ The identifier UNDEF is automatically assigned to a report in the database when pages in a report are unassigned or unaccounted.

- UNDEF is assigned to reports displayed on the Active Report List panel from the start to the end of the execution of the application jobs.

- At the end of a job, when all the data is assigned to standard report definitions, the system removes the UNDEF report identifier from the Active Report List panel.

Example

A report is marked UNDEF in these situations:

- If a page of a stacked report or a record of a DD statement for interleaved reports cannot be related to the report definition for the DD statement,

- For network input, if the NETUNDEF initialization parameter is set to YES and the data set cannot be located in a job definition in the database, the network input data set is treated as a basic UNDEF report.

Follow these steps:

1. Enter **=R UNDEF** on the command line of any panel and press Enter to display the Report Definition Attributes panel.

```
CA Deliver ------------- Report Definition Attributes -----------------------
Command ==>

  ID      ---> UNDEF                                 Step    --->
  Job     --->              Procstep --->            DD      --->
                                                     Type    --->
  Desc    ==>
  Arch ID ==>

Attributes:
  ARCH    ==>              BANNER ==>              BURST  ==>
  CC      ==>              CLASS  ==>              COPIES ==>
  FCB     ==>              FORM   ==>              FLASH  ==> (   ,   )
  LATE    ==>              OPTCDJ ==>              UCS    ==>
  FORMDF ==>               PAGEDF ==>              PRMODE ==>
  PRSET   ==>              PRTY   ==>              GRPID  ==>
  CHARS   ==> (      ,      ,      ,        )      MODIFY ==> (   , )
  COPYG   ==> (      ,      ,    ,    ,    ,    ,    ,      )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.       D - Distribution specifications.
     I — Special instructions.        T - Report identification text.
```

2. Enter any information you want to include on:

   – The Report Definition Attributes panel and the Distribution Specifications, Special Instructions, or both,

   – The Report Identification Text subpanels.

3. Enter **END** on the command line of the Report Definition Attributes panel, and press Enter to add the undefined report to the database.

    The Primary Selection Menu panel is displayed.

Chapter 5: Defining Stacked Reports That Contain Exclusive Segments

This chapter explains how to define stacked reports that contain exclusive segments, and includes information about how to:

- Define contiguous and non-contiguous report pages

- Define an exclusive segment and a stacked report that contains exclusive segments

- List a distribution identifier and define a job

- Specify report definition attributes

- Specify report identification text

This section contains the following topics:

What Are Contiguous and Non-Contiguous Report Pages?

The term *contiguous report pages* refers to one or more pages in a report that are adjacent. *Non-contiguous report pages* are single pages or segments, or a series of contiguous segments that are separated by other segments or pages.

This example illustrates contiguous and non-contiguous pages in a report.
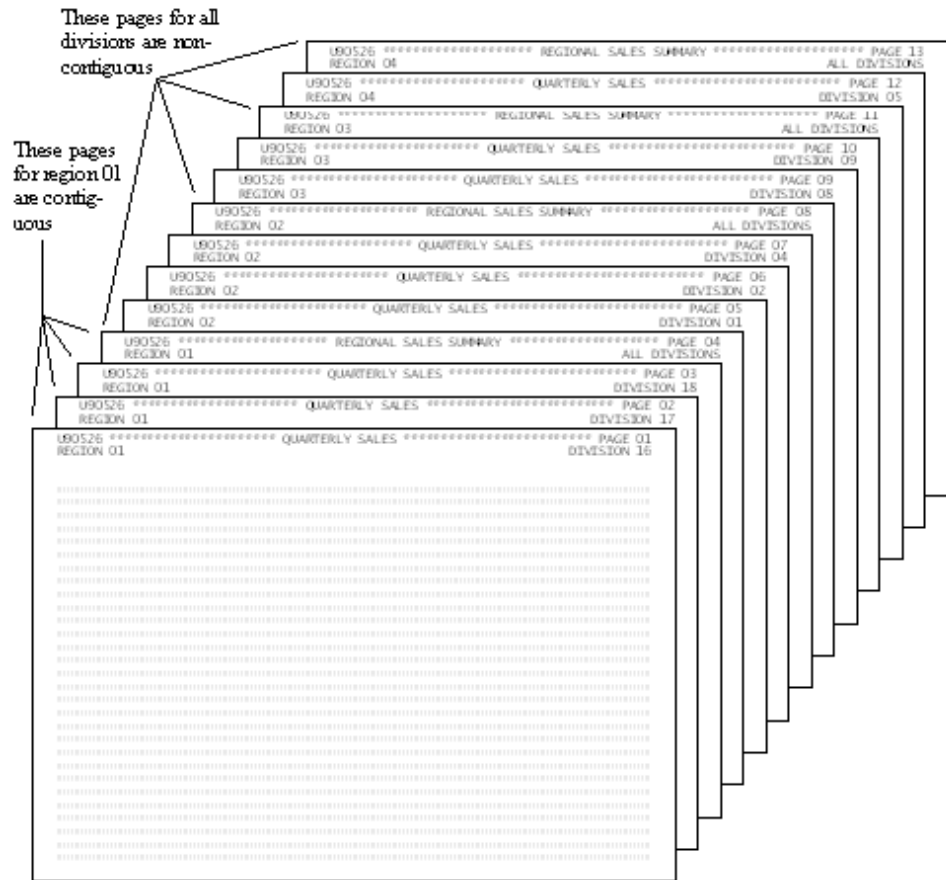
What Is an Exclusive Segment in a Report?

An *exclusive segment* is one or more contiguous pages of unique data.

This data is extracted from a single SYSOUT data set and is placed in a report that is not duplicated in any other report that is produced by a job.

Examples

These examples show the kind of data that can form an exclusive segment:

- Edited transactions from the job TRJOB01 that you executed in the chapter "Defining Basic Reports"

- A vendor report that records the transactions that occurred with suppliers

- A check register that records checks written to the suppliers

What Is a Stacked Report That Contains Exclusive Segments?

A *stacked report that contains exclusive segments* is a report that consists of a unique and exclusive segment of a single SYSOUT data set.

Note: A single banner page that contains report and distribution information is attached to both the start and end of a stacked report that contains exclusive segments.

This illustration shows examples of stacked reports that contain exclusive segments. You are going to create these segments in the scenario in this chapter. Notice that a unique banner page is attached to each report.

What Is Report Identification Text?

Report identification text is a unique string of text that is used to determine whether a page in SYSOUT is the beginning, end, or part of a segment. Report identification text is comprised of the letters A–Z, digits 0–9, national characters ($, #, @), and any other keyboard characters.

Report identification text identifies the exclusive or overlapping segments that CA Deliver is to select from SYSOUT. These segments are then output to a stacked report.

Following are some examples of report identification text:

- A unique title or heading (partial or whole), such as VENDOR or SUMMARY, that appears on the first line of the first page of each segment in a data set

- Descriptive information, such as 01 or 02, that appears in the same location on each page of each segment in a data set

Note: If the initialization parameter TEXT is set to TEXT=ASIS in your installation and you want to specify a case-sensitive string for report identification text on a panel, you must enclose the text in single quotation marks.

Report Definition Attributes for Segments

Enter these attributes under Type on the Report Definition Attributes panel. These attributes are discussed later in this section.

X, XCL

Selects the beginning page of an exclusive segment

P, PAG

Selects a page segment and is used if beginning and end text strings are the same (overlapping segments only)

B, BEG

Selects the beginning page of an overlapping segment

E, END

Selects the end page of an overlapping segment

A, AND

Specifies the text string to be used with a previous text string to further qualify a segment

O, OR

Specifies the text string to be used to select the beginning or end of a segment if a previous associated text string is not found

AOR

Specifies the text string to be used as an OR condition for the previous statement

Rules for Defining Exclusive Segments in Stacked Reports

These rules apply when you define exclusive segments in stacked reports:

- You can use one or more non-contiguous segments of a SYSOUT data set in a stacked report.

- The smallest segment you can specify is a single page of a SYSOUT data set; the largest segment you can specify is an entire SYSOUT data set.

- You must identify a beginning text string for each exclusive segment in a SYSOUT data set.

    The beginning of one segment marks the end of the previous segment.

- The exclusive segment text condition starts an exclusive segment that continues until another exclusive segment condition is encountered.

- To select one set of contiguous pages (a segment), enter **N** (No) under (R)eus.

    Notice that only the first segment that matches the report identification text criteria you specify is selected. N is the default for the (R)eus field; therefore if you leave it blank and press Enter, N is inserted by default.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                             Scroll ===> PAGE

  ID     ---> U90526-R01                        Job     ---> U90526
  Step   ---> SALESTEP     Procstep --->        DD      ---> REPORTS
                                                Type    ---> STACK
Report Identification Text:
            Line     Column
Sel Typ R Op Beg End Beg   End   Text                          Cols 001 046
    XCL N EQ 1      32          FINANCIAL




****************************** Bottom of Data ******************************
```

For example, this information selects the first group of contiguous pages starting with the page that contains the text FINANCIAL at line 1, column 32.

- To select *all* segments in a data set that matches the report identification text criteria that you specify, enter **Y** (Yes) under (R)eus.

  You must specify Y only for the beginning or page segment types; *not* for related END, AND, OR or AOR types.

  For example, entering this information selects an exclusive segment starting with the first page that contains the text FINANCIAL at line 1, column 32. Note that if the exclusive segment is terminated by another exclusive segment, the next page that contains the text FINANCIAL at line 1, column 32 will trigger the continuation of the segment with a non-continuous page.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                  Scroll ===> PAGE

  ID    ---> U90526-R01                         Job    ---> U90526
  Step  ---> SALESTEP     Procstep --->         DD     ---> REPORTS
                                                Type   ---> STACK
 Report Identification Text:
          Line     Column
Sel Typ R Op Beg End Beg   End   Text                          Cols 001 046
    XCL Y EQ 1       32          FINANCIAL




****************************** Bottom of Data ******************************
```

If you use a logical AND operator, all conditions specified must be true for a page to be selected.

Note: You can use more than one logical AND operator at a time.

For example, enter the following information on the Report Identification Text subpanel to start an exclusive segment with the page that contains both the text SUMMARY on line 1, column 44 and the value 02 on line 2, column 8.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                Scroll ===> PAGE

  ID     ---> U90526-R01                          Job    ---> U90526
  Step   ---> SALESTEP     Procstep --->          DD     ---> REPORTS
                                                  Type   ---> STACK
 Report Identification Text:
             Line      Column
Sel Typ R Op Beg End Beg   End    Text                         Cols 001 046
    XCL N EQ 1     44            SUMMARY
    AND N EQ 2     8             02




******************************* Bottom of Data ********************************
```

■ If you use a logical OR operator, only one condition has to be true for the page to be selected

Note: You can use more than one logical OR operator at a time. For example, the information entered on the next two panels selects the same pages in a SYSOUT data set.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                Scroll ===> PAGE

  ID     ---> U90526-R01                          Job    ---> U90526
  Step   ---> SALESTEP     Procstep --->          DD     ---> REPORTS
                                                  Type   ---> STACK
 Report Identification Text:
             Line      Column
Sel Typ R Op Beg End Beg   End    Text                         Cols 001 046
    XCL N EQ 2     8             01
    OR  N EQ 2     8             03




******************************* Bottom of Data ********************************
```

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                          Scroll ===> PAGE

  ID     ---> U90526-R01                        Job     ---> U90526
  Step   ---> SALESTEP      Procstep --->        DD      ---> REPORTS
                                                 Type    ---> STACK
 Report Identification Text:
             Line      Column
Sel Typ R Op Beg End Beg   End   Text                           Cols 001 046
    XCL N EQ 2      8           01
    XCL N EQ 2      8           03




****************************** Bottom of Data ******************************
```

- You can use the logical AND and the logical OR operators together.

  For example, enter the following information on the Report Identification Text subpanel to specify that the system is to start an exclusive segment when a page contains either of the following entries:

  – The text string SUMMARY and the value 03

  – The text string SUMMARY and the value 01

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                          Scroll ===> PAGE

  ID     ---> U90526-R01                        Job     ---> U90526
  Step   ---> SALESTEP      Procstep --->        DD      ---> REPORTS
                                                 Type    ---> STACK
 Report Identification Text:
             Line      Column
Sel Typ R Op Beg End Beg   End   Text                           Cols 001 046
    XCL N EQ 1      44          SUMMARY
    AND N EQ 2      8           03
    OR  N EQ 1      44          SUMMARY
    AND N EQ 2      8           01




****************************** Bottom of Data ******************************
```

Because the page that contains SUMMARY and 01 comes first in the data set, the data is selected starting with the page that contains the text strings SUMMARY and 01.

Selection ends at either the end of the SYSOUT data set or when another exclusive segment occurs.

Defining a Stacked Report Containing Exclusive Segments

Important! Be sure to use a test database to perform these procedures so that you do not inadvertently change or lose data in your production database. CA Deliver must be installed and running and the Primary Selection Menu panel must be displayed before you begin this section.

This list summarizes the steps required to define a stacked report that contains exclusive segments. Detailed instructions are provided later in this chapter.

Step 1:   List a Distribution Identifier and Define a Job.

Step 2:   Specify Report Definition Attributes for Report 1.

These attributes identify a report recipient and provide instructions that will be listed on the banner pages of the report.

Step 3:   Enter Identification Text for Report 1.

Step 4:   Enter Report Definition Attributes for Report 2.

Step 5:   Enter Identification Text for Report 2.

Step 6:   Enter Report Definition Attributes for Report 3.

Step 7:   Enter Identification Text for Report 3.

This text tells the system how to split the output to create several reports.

Step 8:   Close the panels.

Step 9:   Submit the Job.

When you submit the job, the system:

- Obtains the report output from the application program you specified in the JCL for the job (ARUPDT in this example)

- Separates the output into unique reports that contain exclusive segments of the data

- Adds a banner page to the beginning and end of each report

- Prints each report for distribution.

Note: Any lowercase characters you enter on the panels are automatically converted to uppercase.

Scenario

In this scenario, you are George Jones once again, a systems programmer for Amalgamated American Manufacturing. You work in Department 27, in Building A32 at the Temple Street facility. You learned how to define a basic report (see the chapter "Defining Basic Reports"), and now your manager asks you to define a stacked report that contains exclusive segments.

You are to write the JCL for a job that will produce the following:

- A list of edited transactions from the job TRJOB01, which you executed in a previous chapter

- A vendor report that records the transactions with the suppliers

- A check register that records the checks that were written to the suppliers

Your manager provides the following information:

- The name of the job is TRJOB02.

- The step name is UPDTSTEP.

- The report name is DDname REPTS

- The report identifiers are TRJOB02-R01, TRJOB02-R02, and TRJOB02-R03.

- Distribute the reports to the Accounts Payable group, whose distribution identifier is D29AP.

- Mark the reports late if they are not completed by 10:00 a.m.

- Input the remaining errors in the next cycle.

- Archive the reports.

Example of Your Second JCL

Use a text editor to prepare a data set that contains the JCL for the job, as shown below.

```
//TRJOB02  JOB  MSGCLASS=A,NOTIFY=D27SYSP4,CLASS=X
//UPDTSTEP EXEC PGM=ARUPDT
//SYSUDUMP DD  SYSOUT=*
//INPUT1   DD  DSN=ACCT.ACCOUNTS.TABLES,
//             DISP=OLD
//INPUT2   DD  DSN=ACCT.VENDOR.DATA,
//             DISP=OLD
//INPUT3   DD  DSN=ACCT.VENDOR.CORRECT.DATA,
//             DISP=OLD
//INPUT4   DD  DSN=ACCT.VENDOR.MASTER.DATA(+0),
//             DISP=OLD
//OUTPUT   DD  DSN=ACCT.VENDOR.MASTER.DATA(+1),
//             DISP=(,CATLG),UNIT=DISK,
//             SPACE=(TRK,(10,2),RLSE)
//REPTS    DD  SYSOUT=E
```

Major Elements of Your Second JCL

This list explains the major elements of your second JCL.

//INPUT1 DD DSN=ACCT.ACCOUNTS.TABLES,

//   DISP=OLD

A data set that contains the valid accounts for the vendors

//INPUT2 DD DSN=ACCT.VENDOR.DATA,

//   DISP=OLD

A data set that contains the transactions you edited in TRJOB01

//INPUT3 DD DSN=ACCT.VENDOR.CORRECT.DATA,

//   DISP=OLD

A data set that contains the corrected transactions from TRJOB01

//INPUT4 DD DSN=ACCT.VENDOR.MASTER.DATA(+0),

//   DISP=OLD

The original input data set

//OUTPUT DD DSN=ACCT.VENDOR.MASTER.DATA(+1),

//   DISP=(,CATLG),UNIT=DISK,

//   SPACE=(TRK,(10,2),RLSE)

The output data set that contains the corrected transactions

Scanning AFP Records

CA Deliver recognizes:

- BDT (Begin Document)

- BPG (Begin Page)

- IDM (Invoke Data Map)

- IMM (Invoke Medium Map)

- X'5A' records as page break records

If the initialization parameter STKMODE is set to STKMODE=RECORD at your site, you can specify that you want the system to scan the data by record mode processing in subsequent AFP records as report identification text. The data is subsequently output in a stacked report.

The system also inserts the IDM and IMM records into stacked report pages that use the referenced medium map and the data map.

Step 1: List a Distribution Identifier and Define a Job

1. On the command line of the Primary Selection Menu panel, enter D D29* and press Enter.

   The Distribution Selection List panel, which contains a complete list of distribution identifiers for department 29, is displayed.

```
CA Deliver ------------ Distribution Selection List (1) -----------------------
Command ===>                                                 Scroll ===> PAGE

Sel Distribution ID              Line 1                                   List
===> D29*                        *                                        *
     D29ACCT                     DEPT 29 — ACCOUNTANT
     D29MGR                      DEPT 29 - MANAGER
     D29AP                       DEPT 29 — ACCOUNTS PAYABLE
****************************** Bottom of Data ******************************
```

2. Scan the list for D29AP, the distribution identifier for Accounts Payable.

   If the distribution identifier you want is *not* listed, check your spelling. If you are sure that you entered the name correctly, define a new distribution identifier. For more information, see Rules for Defining Distribution Identifiers in the chapter "Defining Basic Reports."

3. Enter **RETURN** on the command line and press Enter to display the Primary Selection Menu panel.

4. Enter **J TRJOB02** on the command line and press Enter to display the Reports for Job panel.

5. Enter **UPDATE ACCOUNTS PAYABLE** in the Desc field.

6. On the Reports for Job panel, enter:

   a. UPDTSTEP under Stepname.

   b. REPTS under DDname.

   c. TRJOB02-R01 under Report ID and S under Type.

   d. TRJOB02-R02 under Report ID and S under Type

   e. TRJOB02-R03 under Report ID and S under Type

```
CA Deliver --------------- Reports for Job: TRJOB02 ------- Row 00001 of 00010
Command ===>                                            Scroll ===> PAGE

 Desc    ===> UPDATE ACCOUNTS PAYABLE
 Prevrun ===>

Sel Stepname Procstep DDname     Report ID                   Type  Prevrun

    UPDTSTEP          REPTS      TRJOB02-R01                  S
                                 TRJOB02-R02                  S
                                 TRJOB02-R03                  S




****************************** Bottom of Data ******************************
```

In this example, three new reports are added to job TRJOB02. A Report Definition Attributes panel is then displayed for each of the reports.

7. Press Enter to display the Report Definition Attributes panel for the first report.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ==>

  ID    ---> TRJOB02-R01                      Job    ---> TRJOB02
  Step  ---> UPDTSTEP     Procstep --->       DD     ---> REPTS
                                              Type   ---> STACK
  Desc  ==>
  Arch ID ==>

Attributes:
  ARCH  ==>              BANNER ==>           BURST  ==>
  CC    ==>              CLASS  ==>           COPIES ==>
  FCB   ==>              FORM   ==>           FLASH  ==> (  ,   )
  LATE  ==>              OPTCDJ ==>           UCS    ==>
  FORMDF ==>             PAGEDF ==>           PRMODE ==>
  PRSET ==>              PRTY   ==>           GRPID  ==>
  CHARS ==> (     ,     ,     ,     )         MODIFY ==> (  ,  )
  COPYG ==> (    ,    ,    ,    ,    ,    ,    ,    )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

      B - Bundle specifications.      D - Distribution specifications.
      I - Special instructions.       T - Report identification text.
```

Step 2: Specify Report Definition Attributes for Report 1

1. On the Report Definition Attributes panel, do the following:

   – Enter **EDITED TRANSACTIONS AP** in the Desc field.

   – Enter 1 in the ARCH field to specify that the report is to be archived.

   – Enter **10:00** in the LATE field to specify the late time.

   Note: The late time of 10:00 a.m. does *not* ensure that this report is queued by 10:00 a.m. If the report is queued after 10:00 a.m., the report is flagged on the Active Report List panel.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>

  ID    ---> TRJOB02-R01                        Job    ---> TRJOB02
  Step  ---> UPDTSTEP     Procstep --->         DD     ---> REPTS
                                                Type   ---> STACK
  Desc  ===> EDITED TRANSACTIONS AP
  Arch ID ===>

Attributes:
  ARCH   ===> 1          BANNER ===>            BURST  ===>
  CC     ===>            CLASS  ===>            COPIES ===>
  FCB    ===>            FORM   ===>            FLASH  ===> (   ,  )
  LATE   ===> 10:00      OPTCDJ ===>            UCS    ===>
  FORMDF ===>            PAGEDF ===>            PRMODE ===>
  PRSET  ===>            PRTY   ===>            GRPID  ===>
  CHARS  ===> (      ,      ,     ,      )      MODIFY ===> (  ,  )
  COPYG  ===> (      ,     ,    ,    ,    ,    ,    ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.      D - Distribution specifications.
     I - Special instructions.       T - Report identification text.
```

   Values specified in the JCL for the job and as initialization parameters are used for the blank fields in the panel.

   Note: If you leave the BANNER field blank, the default banner page for your site is used.

2. Press Enter to refresh the Report Definition Attributes panel.

3. Enter **D** on the command line, and press Enter to display the Distribution Specifications subpanel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID    ---> TRJOB02-R01                        Job    ---> TRJOB02
  Step  ---> UPDTSTEP     Procstep --->         DD     ---> REPTS
                                                Type   ---> STACK
 Distribution Specifications:                          Writer/  Days
Sel Grp Distribution ID              Out Dest          Eformat  MTWTFSS




****************************** Bottom of Data ******************************
```

4. Enter the distribution identifier **D29AP (**for the Accounts Payable group) in the Distribution ID field on the Report Definition Attributes panel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID    ---> TRJOB02-R01                        Job    ---> TRJOB02
  Step  ---> UPDTSTEP     Procstep --->         DD     ---> REPTS
                                                Type   ---> STACK
 Distribution Specifications:                          Writer/  Days
Sel Grp Distribution ID              Out Dest          Eformat  MTWTFSS
        D29AP




****************************** Bottom of Data ******************************
```

Leave the remaining fields on the Report Definition Attributes panels blank to force the use of the default settings.

5. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

The distribution identifiers you specified are entered into the database.

Note: If a distribution identifier you enter on the Distribution Specifications panel is not already defined, the Distribution Data for ID panel is displayed. Use this panel to enter the data for the undefined identifier. The Distribution Data for ID panel is described in the chapter "Defining Basic Reports."

6. Enter **I** on the command line and press Enter to display the Special Instructions subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                           Scroll ===> PAGE

  ID    ---> TRJOB02-R01                     Job    ---> TRJOB02
  Step  ---> UPDTSTEP    Procstep --->       DD     ---> REPTS
                                             Type   ---> STACK
 Special Instructions:
Sel Instruction




****************************** Bottom of Data ******************************
```

7. Enter the special instructions **FINAL EDIT - CORRECTIONS WILL BE INPUT ON NEXT CYCLE** below the Instruction field and press Enter.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                           Scroll ===> PAGE

  ID    ---> TRJOB02-R01                     Job    ---> TRJOB02
  Step  ---> UPDTSTEP    Procstep --->       DD     ---> REPTS
                                             Type   ---> STACK
 Special Instructions:
Sel Instruction
    'FINAL EDIT — CORRECTIONS WILL BE INPUT ON NEXT CYCLE'




****************************** Bottom of Data ******************************
```

The special instructions you enter are automatically enclosed in single quotation marks; any lowercase characters are automatically converted to uppercase.

8. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

You are now ready to define the report identification text for TRJOB02 R01 (report 1)

Step 3: Specify Identification Text for Report 1

When the system processes a job, each page is evaluated against the report identification text. The system determines whether the page is at the beginning of a segment, the end of a segment, or part of a segment, and the report to which the segment belongs.

As each page in the SYSOUT data set is evaluated, the reports for the job are assembled from the different specified segments.

The reports for the job discussed in this chapter are comprised of exclusive segments. For example, the edited transactions from TRJOB02, the vendor financial history, and the check register, all form unique and exclusive segments, as shown in this illustration.
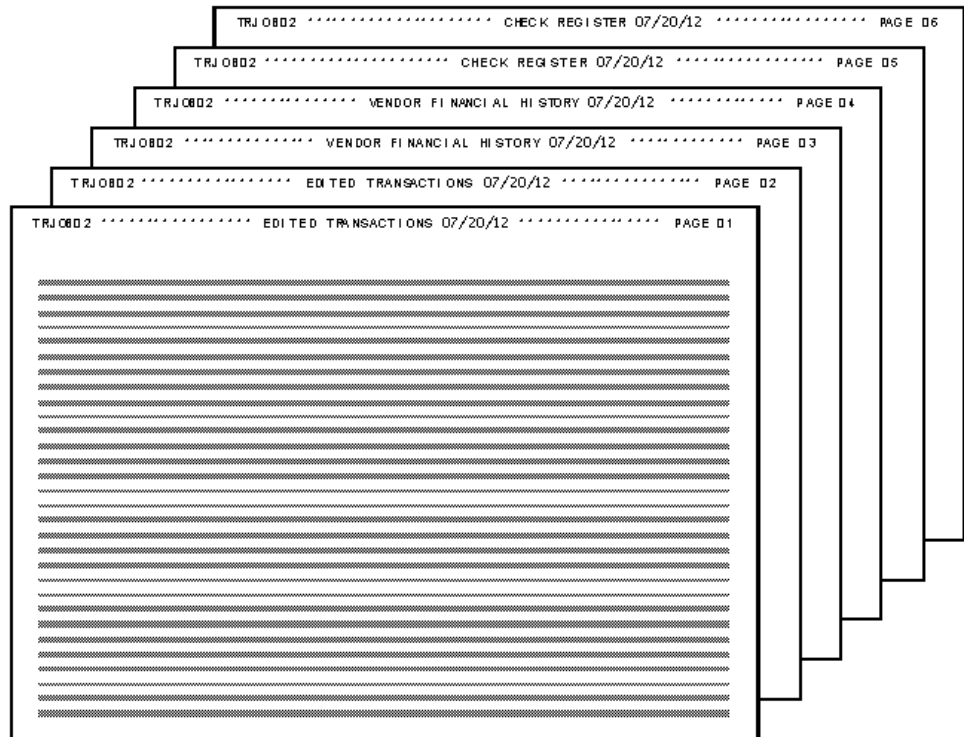
These portions of SYSOUT data are not selected again for processing in any other report. (Note, however, that it is possible to define reports that contain more than one exclusive segment each.)

1. Obtain a printout of the SYSOUT data set that contains the data you want to split into segments.

2. Examine the printout carefully to determine the page where each segment starts and ends.

3. Look for unique text (usually a page heading) on the first page of each segment that you can use to identify the beginning of that segment.

When you define exclusive segments, you only have to identify the beginning of a segment; the end of the previous segment is automatically delimited by the beginning of the next one.

4. Select a unique word or phrase in each title.

   In this example, the first line of the first page of each segment contains a unique title. This title is an excellent text string to use for report identification.

   The targeted text strings are the words EDITED from the first title, VENDOR from the second title, and CHECK from the third.

5. Enter T on the command line and press Enter to display the Report Identification Text subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                             Scroll ===> PAGE

  ID     ---> TRJOB02-R01                      Job     ---> TRJOB02
  Step   ---> UPDTSTEP      Procstep --->      DD      ---> REPTS
                                               Type    ---> STACK
 Report Identification Text:
           Line      Column
Sel Typ R Op Beg End Beg   End   Text                          Cols 001 046
    XCL N EQ 2     8         01



******************************* Bottom of Data ********************************
```

6. On the Report Identification Text subpanel:

   a. Enter **X** under Type.

   b. Leave the (R)eus column blank to use the default (NO); you do not want the segment to be used again to select additional pages.

   c. Enter **EQ** under Op.

   d. Enter **1** under Line.

   e. Enter **27** under Col because the word EDITED (the word you are searching for) starts in the 27th column.

   f. Enter **EDITED** under Text.

```
CA Deliver ------------ Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                         Scroll ===> PAGE

  ID    ---> TRJOB02-R01                       Job    ---> TRJOB02
  Step  ---> UPDTSTEP    Procstep --->          DD     ---> REPTS
                                                Type   ---> STACK
 Report Identification Text:
             Line     Column
Sel Typ R Op Beg End Beg   End   Text                        Cols 001 046
   X      EQ 1     27          EDITED




********************** BOTTOM OF DATA ***************************
```

7. Press Enter.

   The panel changes as follows (not shown):

   – N is displayed under (R)eus, which you left blank to specify the default value.

   – The text EDITED under Text is enclosed in single quotation marks.

8. Enter **END** on the command line and press Enter to return to the Report Definition Attributes panel.

9. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel for the second report, TRJOB02-R02.

The information you entered for report 1 is entered into the database, and the message REPORT SAVED is displayed in the short message area.

Step 4: Specify Report Definition Attributes for Report 2

1. On the Report Definition Attributes panel:

   a. Enter **EDITED TRANSACTIONS AP** in the Desc field.

   b. Enter **1** in the ARCH field to specify that the report is to be archived.

   c. Enter **10:00** in the LATE field to specify the late time.

      The late time of 10:00 a.m. does *not* ensure that this report is queued by 10 a.m. If the report is queued after 10:00 a.m., the report is flagged on the Active Report List panel.

Notes:

– Values specified in the JCL for the job and as initialization parameters are used because you leave the remaining fields on the panel blank.

– Your default banner page is used because you leave the BANNER field blank.

```
CA Deliver ------------ Report Definition Attributes ----------- Report saved
Command ===>

  ID    ---> TRJOB02-R02                        Job    ---> TRJOB02
  Step  --->               Procstep --->        DD     --->
                                                Type   ---> STACK

  Desc   ===> EDITED TRANSACTIONS AP
  Arch ID ===>

Attributes:
  ARCH  ===> 1         BANNER ===>          BURST  ===>
  CC    ===>           CLASS  ===>          COPIES ===>
  FCB   ===>           FORM   ===>          FLASH  ===> (  ,   )
  LATE  ===> 10:00     OPTCDJ ===>          UCS    ===>
  FORMDF ===>          PAGEDF ===>          PRMODE ===>
  PRSET ===>           PRTY   ===>          GRPID  ===>
  CHARS ===> (     ,      ,      ,      )    MODIFY ===> (   , )
  COPYG ===> (     ,     ,    ,    ,    ,    ,    ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.       D - Distribution specifications.
     I - Special instructions.        T - Report identification text.
```

2. Enter **D** on the command line, and press Enter to display the Distribution Specifications subpanel.

3. Enter **COPY TRJOB02-R01** on the command line and press Enter.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===> COPY TRJOB02-R01                             Scroll ==> PAGE

  ID    ---> TRJOB02-R02                      Job    ---> TRJOB02
  Step  --->              Procstep --->       DD     --->
                                              Type   ---> STACK
  Distribution Specifications:                         Writer/   Days
 Sel Grp Distribution ID            Out Dest           Eformat  MTWTFSS




 ****************************** Bottom of Data ******************************

```

The distribution specification information (including the default parameter information) is copied from report TRJOB02-R01 to report TRJOB02-R02.

This information is displayed in the following illustration.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00001
Command ===>                                             Scroll ==> PAGE

  ID    ---> TRJOB02-R02                      Job    ---> TRJOB02
  Step  --->              Procstep --->       DD     --->
                                              Type   ---> STACK
  Distribution Specifications:                         Writer/   Days
 Sel Grp Distribution ID            Out Dest           Eformat  MTWTFSS
     D29AP                              Y                        YYYYYYY
 ****************************** Bottom of Data ******************************



```

Note: You can also enter the distribution specification information manually, as described earlier in this chapter.

4. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

The distribution identifiers you specified are entered into the database.

5. Enter **I** on the command line, and press Enter to display the Special Instructions subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                 Scroll ===> PAGE

  ID    ---> TRJOB02-R02                          Job    ---> TRJOB02
  Step  --->                Procstep --->         DD     --->
                                                  Type   ---> STACK
 Special Instructions:
Sel Instruction




******************************* Bottom of Data *******************************
```

6. Enter the special instructions **VENDOR FINANCIAL HISTORY FOR ACCOUNTS PAYABLE** below the Instruction heading and press Enter.

   The special instructions you entered are enclosed in single quotation marks.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                 Scroll ===> PAGE

  ID    ---> TRJOB02-R02                          Job    ---> TRJOB02
  Step  --->                Procstep --->         DD     --->
                                                  Type   ---> STACK
 Special Instructions:
Sel Instruction
     'VENDOR FINANCIAL HISTORY FOR ACCOUNTS PAYABLE'




******************************* Bottom of Data *******************************
```

7. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

You are now ready to define report identification text for report 2.

Step 5: Specify Identification Text for Report 2

1. On the command line of the Report Definition Attributes panel, enter **T** and press Enter to display the Report Identification Text subpanel.

2. On the Report Definition Attributes panel:

    a. Enter **X** under Type.

    b. Leave the (R)eus field blank to specify the default (NO) because you do not want the segment to be used again to select additional pages.

    c. Enter **EQ** under Op.

    d. Enter **1** under Line.

    e. Enter **24** under Col because the word VENDOR (the word you are searching for) starts in the 24th column of line 1 of report 2.

    f. Enter VENDOR under Text.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                               Scroll ===> PAGE

  ID    ---> TRJOB02-R02                       Job    ---> TRJOB02
  Step  --->             Procstep --->         DD     --->
                                               Type   ---> STACK
 Report Identification Text:
            Line     Column
Sel Typ R Op Beg End Beg    End    Text                       Cols 001 046
    X      EQ 1       24            VENDOR




******************************* Bottom of Data ********************************

```

3. Press Enter and review the result (not shown).

    N is displayed under (R)eus, which you left blank to specify the default value; the text VENDOR is enclosed in single quotation marks.

4. Enter END on the command line and press Enter to return to the Report Definition Attributes panel.

5. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel for the third report TRJOB02-R03.

The information you entered for report 2 is entered into the database and the message REPORT SAVED is displayed in the short message area.

Step 6: Specify Report Definition Attributes for Report 3

1. On the Report Definition Attributes panel:

   a. Enter **VENDORS CHECK REGISTER** in the Desc field.

      Any lowercase characters you enter are automatically converted to uppercase.

   b. Enter 1 in the ARCH field to specify that the report will be archived.

   c. Enter **10:00** in the LATE field to specify the late time.

      The late time of 10:00 a.m. does *not* ensure that this report is queued by 10 a.m. If the report is queued after 10:00 a.m., the report is flagged on the Active Report List panel.

   d. Press Enter.

```
CA Deliver ------------- Report Definition Attributes ------------ Report saved
Command ===>

  ID     ---> TRJOB02-R03                    Job    ---> TRJOB02
  Step   --->               Procstep --->    DD     --->
                                             Type   ---> STACK
  Desc    ===> VENDORS CHECK REGISTER
  Arch ID ===>

Attributes:
  ARCH   ===> 1           BANNER ===>           BURST  ===>
  CC     ===>             CLASS  ===>           COPIES ===>
  FCB    ===>             FORM   ===>           FLASH  ===> (   ,   )
  LATE   ===> 10:00       OPTCDJ ===>           UCS    ===>
  FORMDF ===>             PAGEDF ===>           PRMODE ===>
  PRSET  ===>             PRTY   ===>           GRPID  ===>
  CHARS  ===> (     ,     ,     ,      )        MODIFY ===> (   , )
  COPYG  ===> (     ,     ,    ,    ,    ,    ,    ,    )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

    B - Bundle specifications.       D - Distribution specifications.
    I - Special instructions.        T - Report identification text.
```

2. Enter **D** on the command line and press Enter to display the Distribution Specifications subpanel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID    ---> TRJOB02-R03                        Job    ---> TRJOB02
  Step  --->              Procstep --->         DD     --->
                                                Type   ---> STACK
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID              Out Dest          Eformat   MTWTFSS




****************************** Bottom of Data ******************************
```

3. Enter the command **COPY TRJOB02-R02** on the command line and press Enter.

    The distribution specification information (including the default parameter information) is copied from report TRJOB02-R02 to report TRJOB02-R03. This information is displayed in the following illustration.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00001
Command ===>                                              Scroll ===> PAGE

  ID    ---> TRJOB02-R03                        Job    ---> TRJOB02
  Step  --->              Procstep --->         DD     --->
                                                Type   ---> STACK
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID              Out Dest          Eformat   MTWTFSS
        D29AP                        Y                            YYYYYYY
****************************** Bottom of Data ******************************
```

4. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

    The distribution identifiers you specified are entered into the database.

5. Enter **I** on the command line and press Enter to display the Special Instructions subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ==>                                                  Scroll ==> PAGE

  ID     ---> TRJOB02-R03                        Job     ---> TRJOB02
  Step   --->              Procstep --->         DD      --->
                                                 Type    ---> STACK
 Special Instructions:
Sel Instruction




****************************** Bottom of Data ******************************
```

6. On the Special Instructions subpanel:

    a. Enter the Repeat tabular command **R4** in the Sel column.

    b. Enter the special security instructions **SENSITIVE DATA - ASSURE SECURITY AT ALL TIMES** below the Instruction field.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ==>                                                  Scroll ==> PAGE

  ID     ---> TRJOB02-R03                        Job     ---> TRJOB02
  Step   --->              Procstep --->         DD      --->
                                                 Type    ---> STACK
 Special Instructions:
Sel Instruction
 R4 SENSITIVE DATA — ASSURE SECURITY AT ALL TIMES




****************************** Bottom of Data ******************************
```

    c. Press Enter to display the Special Instructions subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID    ---> TRJOB02-R03                       Job    ---> TRJOB02
  Step  --->              Procstep --->        DD     --->
                                               Type   ---> STACK
 Special Instructions:
Sel Instruction
     'SENSITIVE DATA — ASSURE SECURITY AT ALL TIMES'
     'SENSITIVE DATA — ASSURE SECURITY AT ALL TIMES'
     'SENSITIVE DATA — ASSURE SECURITY AT ALL TIMES'
     'SENSITIVE DATA — ASSURE SECURITY AT ALL TIMES'
     'SENSITIVE DATA — ASSURE SECURITY AT ALL TIMES'



****************************** Bottom of Data *******************************
```

7. Enter **END** on the command line, and press Enter to display the Report Definition
    Attributes panel.

You are now ready to define report identification text for report 3.

Step 7: Specify Identification Text for Report 3

1. On the Report Definition attributes panel, enter **T** on the command line and press
    Enter to display the Report Identification Text subpanel.

2. On the Report Identification Text subpanel:

    a. Enter **X** under Type.

    b. Leave the (R)eus field blank to specify the default (NO) because you do not
        want the segment to be used again to select additional pages.

    c. Enter **EQ** under Op.

    d. Enter **1** under Line.

    e. Enter **28** under Col because the word CHECK (the word you are searching for),
        starts in the 28th column of line 1 of the data set.

    f. Enter **CHECK** under Text.

    g. Press Enter.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                               Scroll ===> PAGE

  ID    ---> TRJOB02-R03                         Job    ---> TRJOB02
  Step  --->             Procstep --->           DD     --->
                                                 Type   ---> STACK
 Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg   End   Text                            Cols 001 046
    X      EQ 1       28          CHECK




****************************** Bottom of Data ******************************
```

The text CHECK under the header Text is enclosed in single quotation marks (not shown).

3. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

When you exit the Report Definition Attributes panel, the information you entered for report 3 is entered into the database and the message REPORT SAVED is displayed in the short message area.

Step 8: Close Panels and Finish Your Work

1. On the Report Definition Attributes panel, enter **END** on the command line and press Enter.

    The report you defined is added to the database and the Reports for Job panel is displayed for the job.

```
CA Deliver --------------- Reports for Job: TRJOB02 ------------- Report saved
Command ===>                                            Scroll ===> PAGE

 Desc    ===> UPDATE ACCOUNTS PAYABLE
 Prevrun ===>

Sel Stepname Procstep DDname    Report ID                    Type  Prevrun
    UPDTSTEP          REPTS     TRJOB02-R01                  STACK
                                TRJOB02-R02                  STACK
                                TRJOB02-R03                  STACK




****************************** Bottom of Data ********************************
```

2. Enter **END** on the command line and press Enter to display the Primary Selection
    Menu panel.

    The message TRJOB02 SAVED is displayed in the short message area and the job is
    added to the database.

You are now ready to run the job.

Step 9: Submit the Job

When you submit the job, CA Deliver:

■   Obtains the report output from the application program you specified in the JCL for
    the job (ARUPDT in this example)

■   Separates the output into unique reports that contain exclusive segments of the
    data

■   Adds a banner page to the front and end of each report

■   Prints each report for distribution.

Chapter 6: Defining Stacked Reports That Contain Overlapping Segments

This chapter explains how to define the following:

- An overlapping segment and a stacked report that contains overlapping segments
- Report identification text for a stacked report that contains overlapping segments

This section contains the following topics:

What Is an Overlapping Segment in a Report?

An overlapping segment is one or more pages of data, extracted from a single SYSOUT data set and placed in a report that might be entirely or partially duplicated in other reports.

Example of a Report That Contains Overlapping Segments

The following illustration shows the original report you generate in this chapter; it provides a good example of a report that can be divided into a set of reports that contain overlapping segments.

Note: Be sure to compare the titles in this report to the titles generated in the stacked reports shown in the illustration that contain overlapping segments.
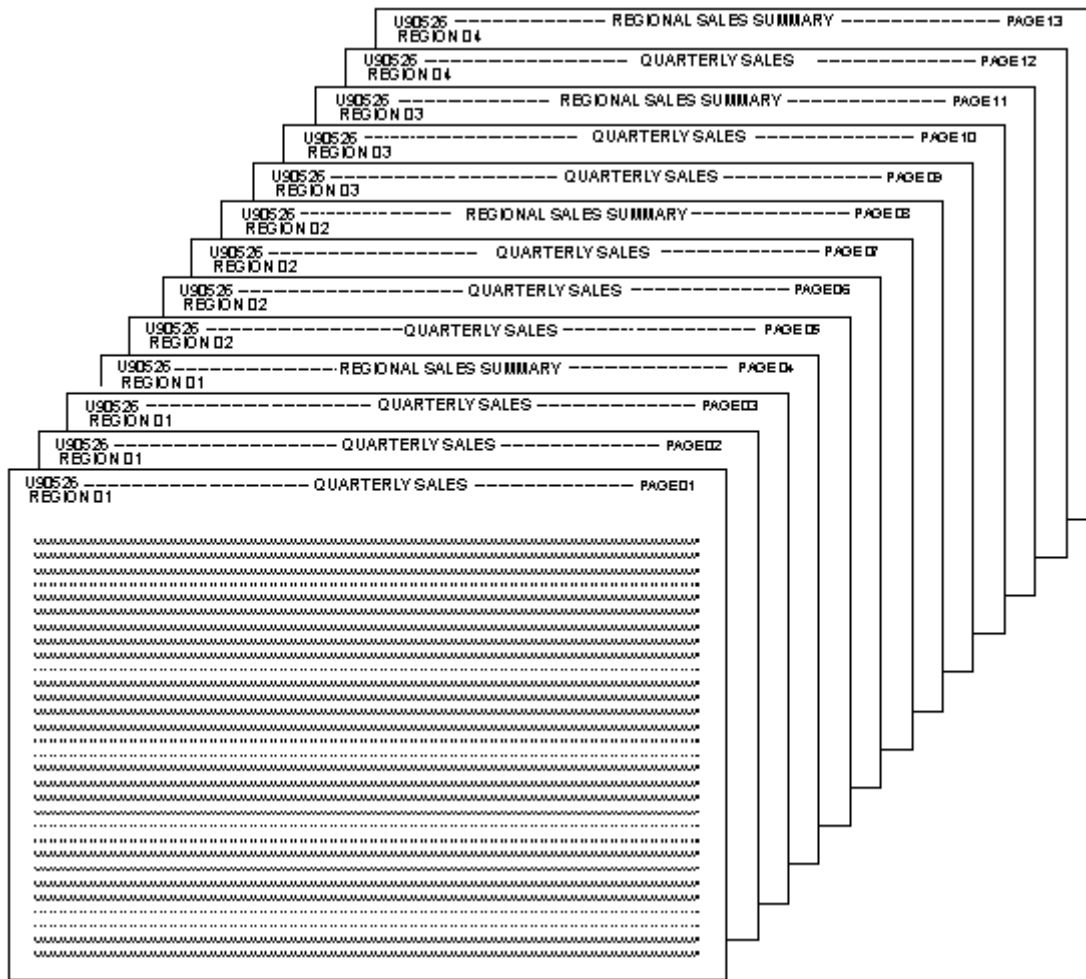
What Are Stacked Reports That Contain Overlapping Segments?

Stacked reports that contain overlapping segments consist of one or more segments of a single SYSOUT data set that might be entirely or partially duplicated in other reports.

Following are some examples of the data that can form overlapping segments:

- Regional sales summary data for a company
- Quarterly sales data for a company

Example of Stacked Reports That Contain Overlapping Segments

In the following illustration, you can see three of the four reports generated in this chapter by CA Deliver. These three reports are from the preceding original report for Amalgamated American Manufacturing:

- Report U90526-R01 contains the quarterly sales data for region 1 and a sales summary for all regions.

- Report U90526-R02 contains the quarterly sales data for region 3 and a sales summary for all regions.

- Report U90526-R03 contains the quarterly sales data for regions 2 and 4 and a sales summary for all regions.

- Report U90526-R04 contains the complete sales report for all the regions.

- Report U90526-R05 contains the sales summary for regions 2 and 4.

Following are examples of stacked reports that contain overlapping segments. You will define these reports in this chapter. Compare the titles shown here with the titles shown in the previous
illustration.
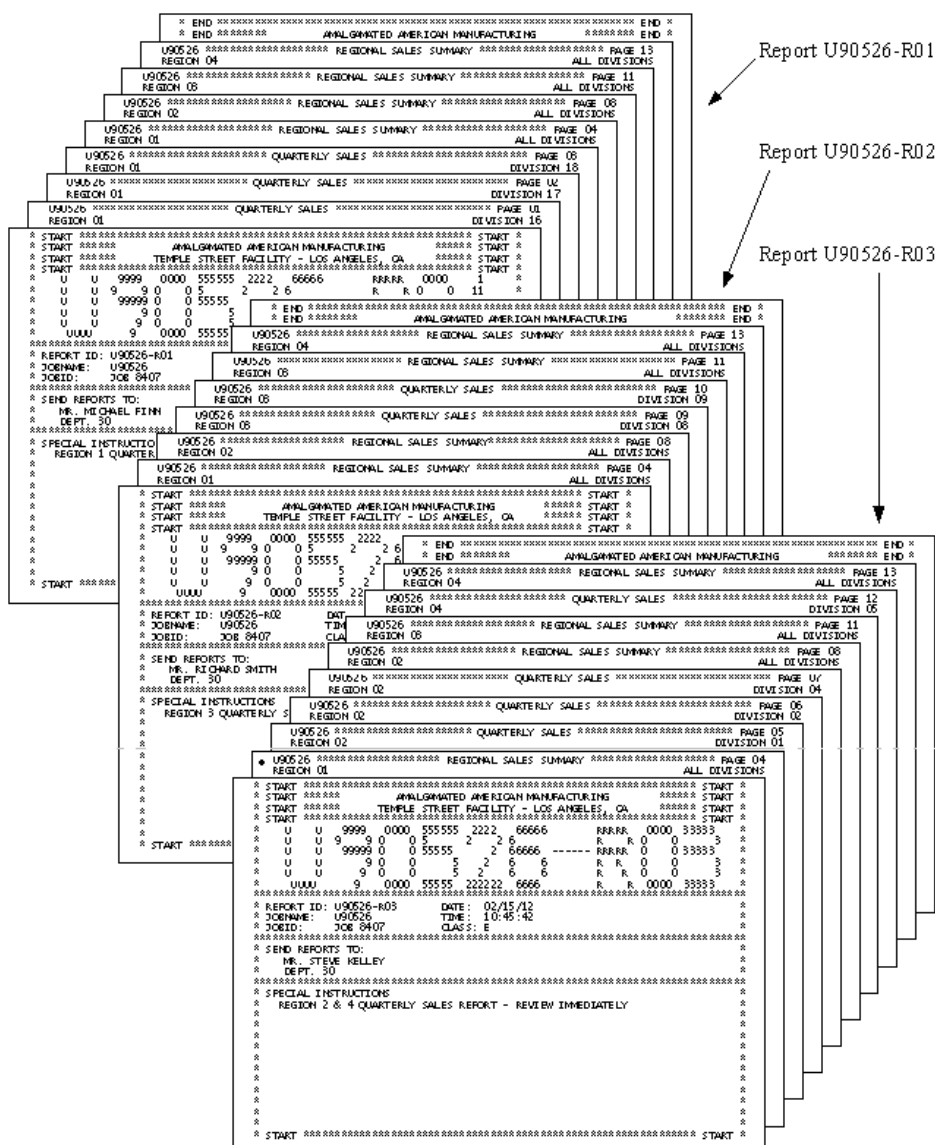
Defining Overlapping Segments for Stacked Reports

Important! Use a test database to practice this procedure so that you do not inadvertently change or lose data in your production database.

This section discusses the report definition attribute types that you can use and the rules you must follow when you define overlapping segments in stacked reports.

Report Definition Attributes for Segments

You can enter these attributes under Type on the Report Definition Attributes panel.

X, XCL

Selects the beginning of an exclusive segment

P, PAG

Selects a page segment and is used if the beginning and end text strings are the same (overlapping segments only)

B, BEG

Selects the beginning of an overlapping segment

E, END

Selects the end of an overlapping segment

A, AND

Specifies a text string that is used with a previous text string to further qualify a segment

O, OR

Specifies a text string to be used to select the beginning or end of a segment if a previous associated text string is not found

AOR

Specifies the text string used as an OR condition for the previous statement.

These attributes are discussed later in this section.

Rules for Defining Overlapping Segments for Stacked Reports

Keep these rules in mind when you define overlapping segments in reports.

- You can use one or more non-contiguous segments of a SYSOUT data set in a stacked report.

- You can use one or more of the same segments in any of the stacked reports.

- The smallest segment you can specify is a single page of a SYSOUT data set; the largest segment you can specify is the entire SYSOUT data set.

- You must identify a beginning and an end text string for each overlapping segment in a SYSOUT data set.

  If a beginning and an end text string are identical, use a page segment (PAG) type.

  This illustration shows you how to select the data for region 01 on pages 01 to 04 of the SYSOUT data set. This data is represented by the report in the first illustration in this chapter.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90526-R01                     Job    ---> U90526
  Step   ---> SALESTEP    Procstep --->       DD     ---> REPORTS
                                              Type   ---> STACK
 Report Identification Text:
            Line    Column
Sel Typ R Op Beg End Beg   End   Text                        Cols 001 046
   PAG N EQ 2      8         01


****************************** Bottom of Data *******************************
```

If a beginning and an end text string are not identical, you must use a pair of beginning and end segment types (BEG and END).

This illustration shows you how to select the data for regions 01 and 02 on pages 01 to 08 of the SYSOUT data set represented by the original report.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90526-R01                     Job     ---> U90526
  Step   ---> SALESTEP     Procstep --->      DD      ---> REPORTS
                                              Type    ---> STACK
 Report Identification Text:
              Line     Column
Sel Typ R Op Beg End Beg   End   Text                        Cols 001 046
    BEG N EQ 2      8          01
    END N EQ 2      8          02




****************************** Bottom of Data ********************************
```

■   If you specify a beginning segment type (BEG) without specifying an end segment type (END), the remainder of a SYSOUT data set—starting from the beginning text string you specify—is selected.

This illustration shows you how to select the data for region 03 to the end of the SYSOUT data set (pages 09 through 13) represented by the original report.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90526-R01                     Job     ---> U90526
  Step   ---> SALESTEP     Procstep --->      DD      ---> REPORTS
                                              Type    ---> STACK
 Report Identification Text:
              Line     Column
Sel Typ R Op Beg End Beg   End   Text                        Cols 001 046
    BEG N EQ 2      8          03




****************************** Bottom of Data ********************************
```

■   To select one set of contiguous pages (a segment), specify **N** (NO) under Reus.

Note that only the first segment that matches the report identification text criteria you specify is selected. N is the default for the Reus field; if you leave it blank and press Enter, N is inserted by default.

This illustration shows you that by entering the information shown, you select page 04 of the data set represented by the original report, even though pages 08, 11, and 13 contain text strings that match the text string you specify.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                Scroll ===> PAGE

  ID     ---> U90526-R01                        Job     ---> U90526
  Step   ---> SALESTEP      Procstep --->        DD      ---> REPORTS
                                                 Type    ---> STACK
 Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg    End    Text                        Cols 001 046
    PAG N EQ 1        44            SUMMARY



****************************** Bottom of Data ******************************
```

■   To select all segments in a data set that match the report identification text criteria you specify, enter **Y** (YES) under Reus.

   Note: Specify Y only for the beginning or page segment types; *not* for related END, AND, or OR types.

   This illustration shows you how enter the information required to select the single pages 04, 08, 11, and 13 of the data set represented by the original report.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                Scroll ===> PAGE

  ID     ---> U90526-R01                        Job     ---> U90526
  Step   ---> SALESTEP      Procstep --->        DD      ---> REPORTS
                                                 Type    ---> STACK
 Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg    End    Text                        Cols 001 046
    PAG Y EQ 1        44            SUMMARY



****************************** Bottom of Data ******************************
```

- If you use a logical AND operator, all conditions specified **must** be true for a page to be selected (you can use more than one logical AND operator at a time).

  This illustration shows you how to use the Report Identification Text subpanel to select page 08 of the SYSOUT data set represented by the original report.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                 Scroll ===> PAGE

  ID     ---> U90526-R01                         Job    ---> U90526
  Step   ---> SALESTEP     Procstep --->         DD     ---> REPORTS
                                                 Type   ---> STACK
  Report Identification Text:
             Line     Column
Sel Typ R Op Beg End Beg   End    Text                           Cols 001 046
    PAG N EQ 1      44            SUMMARY
    AND N EQ 2      8             02




***************************** Bottom of Data *******************************
```

- If you use a logical OR operator, only one condition must be true for the page to be selected. (You can use more than one logical OR operator at a time.)

  These two illustrations show you how you can enter different information and can still select the same pages in a SYSOUT data set.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                 Scroll ===> PAGE

  ID     ---> U90526-R01                         Job    ---> U90526
  Step   ---> SALESTEP     Procstep --->         DD     ---> REPORTS
                                                 Type   ---> STACK
  Report Identification Text:
             Line     Column
Sel Typ R Op Beg End Beg   End    Text
    PAG Y EQ 2      8             01
    OR  N EQ 2      8             03




***************************** Bottom of Data *******************************
```

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID    ---> U90526-R01                          Job    ---> U90526
  Step  ---> SALESTEP      Procstep --->          DD     ---> REPORTS
                                                  Type   ---> STACK
 Report Identification Text:
            Line     Column
Sel Typ R Op Beg End Beg   End    Text                           Cols 001 046
    PAG N EQ 2     8         01
    PAG N EQ 2     8         03




***************************** Bottom of Data ******************************
```

■ You can use the logical AND and logical OR operators together.

This illustration shows you how to enter information on the Report Identification Text subpanel to specify that the system is to select one of the following:

– A single segment that begins with a page that contains the text string SUMMARY and 03,

– A page that contains the text string SUMMARY and 01.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID    ---> U90526-R01                          Job    ---> U90526
  Step  ---> SALESTEP      Procstep --->          DD     ---> REPORTS
                                                  Type   ---> STACK
 Report Identification Text:
            Line     Column
Sel Typ R Op Beg End Beg   End    Text                           Cols 001 046
    PAG N EQ 1    44         SUMMARY
    AND N EQ 2     8         03
    OR  N EQ 1    44         SUMMARY
    AND N EQ 2     8         01



***************************** Bottom of Data ******************************
```

The page that contains SUMMARY and 01 comes first in the data set, therefore, the data—starting from the page that contains the text strings SUMMARY and 01 and ending at the end of the SYSOUT data set—is selected.

Defining a Stacked Report Containing Overlapping Segments

Important! Use a test database to follow this procedure so that you do not inadvertently change or lose data in your production database. The system must be installed and running and the Primary Selection Menu panel displayed before you begin this section.

Before you perform the steps in this section, you must define distribution identifiers for:

- The three sales managers
- The vice president
- The president.

Notes:

- These recipients are shown in the Classification Table section
- The procedures needed to define distribution identifiers are introduced in the chapter "Defining Basic Reports."

This list summarizes the steps required to define a stacked report that contains overlapping segments. Detailed instructions are provided in subsequent sections of this chapter.

Step 1:	Define a Job	
	Define distribution identifiers for recipients of the report and define the job to the system.	
Step 2:	Specify Report Definition Attributes for Report 1	
	Enter the report definition attributes that identify the recipients of the report and the special instructions that for the banner pages of the report.	
Step 3:	Specify Identification Text for Report 1	
	Enter the report identification text for the overlapping segments. This information tells the system how to split the output to create several reports.	
	You repeat this step for each stacked report in this chapter.	
Step 4:	Enter Report Definition Attributes for Report 2	
Step 5:	Enter Identification Text for Report 2	
Step 6:	Enter Report Definition Attributes for Report 3	
Step 7:	Enter Identification Text for Report 3	
Step 8:	Enter Report Definition Attributes for Report 4	
Step 9:	Enter Identification Text for Report 4	

Step 10:   Enter Report Definition Attributes for Report 5

Step 11:   Enter Identification text for Report 5

Step 12:   Close the Panels and Finish Your Work

Step 13:   Submit the Report

When you submit the job, the system:

■   Takes the report output from the application program you specified in the JCL for the job (U90526A in this example)

■   Separates the output into unique reports that contain overlapping segments of the data

■   Adds a banner page to the beginning and end of each report

■   Prints each report for distribution

Note: Any lowercase characters you enter on the panels are automatically converted to uppercase.

Scenario

In this scenario, you are George Jones, a senior systems programmer in Department 27.

Information You Need for Your Third JCL

Your manager asks you to:

- Define a set of stacked reports that contain overlapping segments

- Write the JCL for a job that produces three sales reports for four regions of Amalgamated American Manufacturing's total sales area.

    These reports are to contain quarterly and regional sales data for each region, and regional sales data for each of the other regions.

You receive the following instructions:

- Distribute the quarterly and regional sales reports to each regional sales manager.

- Distribute the regional sales reports to the President and Vice President of Sales.

- Produce an online viewing only report for Molly Bloom, the Vice President of Sales .

- The specifications are:

    - The name of this job is U90526

    - The Stepname is SALESTEP

    - The report DDname is REPORTS

    - The report identifiers are U90526-R01, U90526-R02, U90526-R03, U90526-R04 and U90526-R05.

- Mark the reports late if they are not completed by 10:00 p.m.

- Archive the reports.

Classification Table

From your manager's instructions (and after some research), you develop this table.

Job Name	Report Identifier	Contents of Report	Distribute Output To	Distribution Identifier
U90526	U90526-R01	Region 1 quarterly sales and all regional sales summary pages	Sales Manager, Region 1, Michael Finn	D30SMG01
U90526	U90526-R02	Region 3 quarterly sales and all regional sales summary pages	Sales Manager, Region 3, Richard Smith	D30SMG03

Job Name	Report Identifier	Contents of Report	Distribute Output To	Distribution Identifier
U90526	U90526-R03	Regions 2 and 4 quarterly sales and all regional sales summary pages	Sales Manager, Regions 2 and 4, Steve Kelley	D30SMG02
U90526	U90526-R04	Complete sales reports for all regions	Vice President of Sales, Molly Bloom	D01VPRES
			President, Mary Shelley	D01PRES
U90526	U90526-R05	Regions 2 and 4 regional sales summary pages	Sales Manager, Regions 2 and 4, Steve Kelley	D30SMG02

Example of Your Third JCL

In this example, you use a text editor to prepare a data set that contains the JCL for this job.

```
//U90526   JOB  (ACCOUNT DATA),CLASS=B,MSGCLASS=A
//SALESTEP EXEC PGM=U90526A
//SYSPRINT DD  SYSOUT=*
//FILE1    DD  DSN=SYS4.NEWFILE,DISP=OLD
//REPORTS  DD  SYSOUT=E
//FILE2    DD  DSN=SYS3.DISKFILE,DISP=SHR
```

Major Elements of Your Third JCL

This list describes the major elements of your third JCL.

//FILE1 DD DSN=SYS4.NEWFILE, DISP=OLD

A data set that contains the master file that is to be updated and sorted

//REPORTS DD SYSOUT=E

A data set that contains the report SYSOUT that is to be split by CA Deliver for this stacked report definition

//FILE2 DD DSN=SYS3.DISKFILE,DISP=SHR

A data set that contains the subfile passed to another job

Step 1: Define a Job

1. On the command line of the Primary Selection Menu panel, enter **J U90526**, and press Enter to display the Reports for Job panel.

2. Enter **QUARTERLY SALES** in the Desc field.

3. Do the following on the Reports for Job panel:

   a. Enter **SALESTEP** under Stepname.

   b. Enter **REPORTS** under DDname.

   c. Enter **U90526-R01** under Report ID.

   d. Enter **S** under Type.

   e. Enter **U90526-R02, U90526-R03,** and **U90526-R04** under Report ID on the next three lines.

   f. Enter S under Type for each of the other three reports.

```
CA Deliver ---------------- Reports for Job: U90526 -------- Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

 Desc    ===> QUARTERLY SALES
 Prevrun ===>

Sel Stepname Procstep DDname      Report ID                    Type  Prevrun
    SALESTEP          REPORTS     U90526-R01                   S
                                  U90526-R02                   S
                                  U90526-R03                   S
                                  U90526-R04                   S




****************************** Bottom of Data ******************************
```

In this example, four new reports are being added to job U90526. A Report Definition Attributes panel is shown for each of the reports.

4. Press Enter to display the Report Definition Attributes panel for the first report.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>

  ID     ---> U90526-R01                        Job    ---> U90526
  Step   ---> SALESTEP    Procstep --->         DD     ---> REPORTS
                                                Type   ---> STACK
  Desc   ===>
  Arch ID ===>

Attributes:
  ARCH   ===>            BANNER ===>            BURST  ===>
  CC     ===>            CLASS  ===>            COPIES ===>
  FCB    ===>            FORM   ===>            FLASH  ===> (   ,  )
  LATE   ===>            OPTCDJ ===>            UCS    ===>
  FORMDF ===>            PAGEDF ===>            PRMODE ===>
  PRSET  ===>            PRTY   ===>            GRPID  ===>
  CHARS  ===> (      ,       ,       ,      )   MODIFY ===> (   , )
  COPYG  ===> (      ,     ,    ,    ,    ,    ,    ,    )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.      D - Distribution specifications.
     I - Special instructions.       T - Report identification text.
```

Step 2: Specify Report Definition Attributes for Report 1

1. On the Report Definition Attributes panel, enter **REGION 01 SALES** in the Desc field.

   Any lowercase characters you enter are automatically converted to uppercase.

2. Enter **1** in the ARCH field to specify that the report is to be archived.

3. Enter **22:00** in the LATE field to specify the late time.

   The late time of 22:00 p.m. *does not* ensure that this report is queued by 22:00 p.m. If the report is queued after 22:00 p.m., the report is flagged on the Active Report List panel.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>

  ID    ---> U90526-R01                          Job    ---> U90526
  Step  ---> SALESTEP     Procstep --->          DD     ---> REPORTS
                                                 Type   ---> STACK

  Desc    ==> REGION 01 SALES
  Arch ID ==>

Attributes:
  ARCH   ==> 1         BANNER ==>           BURST  ==>
  CC     ==>           CLASS  ==>           COPIES ==>
  FCB    ==>           FORM   ==>           FLASH  ==> (   ,  )
  LATE   ==> 22:00     OPTCDJ ==>           UCS    ==>
  FORMDF ==>           PAGEDF ==>           PRMODE ==>
  PRSET  ==>           PRTY   ==>           GRPID  ==>
  CHARS  ==> (     ,     ,     ,     )      MODIFY ==> (   , )
  COPYG  ==> (     ,    ,    ,    ,    ,    ,    ,    )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.       D - Distribution specifications.
     I - Special instructions.        T - Report identification text.
```

Notes:

■   The values that were specified in the JCL for the job and in the initialization
    parameters are used because the remaining fields on the panel are left blank.

■   The default banner page is used because the BANNER field is left blank.

4. Press Enter to refresh the Report Definition Attributes panel.

5. Enter **D** on the command line and press Enter to display the Distribution Specifications subpanel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                           Scroll ===> PAGE

  ID    ---> U90526-R01                        Job    ---> U90526
  Step  ---> SALESTEP    Procstep --->         DD     ---> REPORTS
                                               Type   ---> STACK
 Distribution Specifications:                         Writer/   Days
Sel Grp Distribution ID              Out Dest         Eformat   MTWTFSS




****************************** Bottom of Data ******************************
```

6. Enter the distribution identifier for Michael Finn, the Sales Manager for Region 1 in the Distribution ID field.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                           Scroll ===> PAGE

  ID    ---> U90526-R01                        Job    ---> U90526
  Step  ---> SALESTEP    Procstep --->         DD     ---> REPORTS
                                               Type   ---> STACK
 Distribution Specifications:                         Writer/   Days
Sel Grp Distribution ID              Out Dest         Eformat   MTWTFSS
        D30SMG01




****************************** Bottom of Data ******************************
```

Leave the remaining fields on the Distribution Specifications subpanels blank to use the default settings.

Note: In the previous two chapters, you entered END and pressed Enter to display the Report Definition Attributes panel. In this chapter, you skip this step and go immediately to the next panel.

7. Enter **I** on the command line, and press Enter.

8. Enter these special instructions

    REGION 01 QUARTERLY SALES REPORT -REVIEW IMMEDIATELY

    below the Instruction field, and press Enter.

    The special instructions are enclosed in single quotation marks.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90526-R01                      Job    ---> U90526
  Step   ---> SALESTEP     Procstep --->      DD     ---> REPORTS
                                              Type   ---> STACK
 Special Instructions:
Sel Instruction


    'REGION 01 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY'




****************************** Bottom of Data ******************************
```

You display the next panel.

Note: This is the same process that was followed in Step 4.

9. Enter **T** on the command line, and press Enter to display the Report Identification Text subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90526-R01                      Job    ---> U90526
  Step   ---> SALESTEP     Procstep --->      DD     ---> REPORTS
                                              Type   ---> STACK
 Report Identification Text:
            Line     Column
Sel Typ R Op Beg End Beg   End   Text                       Cols 001 046




****************************** Bottom of Data ******************************
```

10. You are now ready to define report identification text for report 1.

Step 3: Specify Identification Text for Report 1

1. Obtain a printout of the SYSOUT data set that contains the data you want to split into segments.

2. Examine the printout. You have to determine how you want to split the first three reports from the segments in the data set, based on region.

3. Look for unique text (usually a page heading) on each page of each segment. You can use this unique text to identify the beginning and end of the segments.

   You determine that the region numbers on line two or three of each heading and the word "Summary" on the first line of each last page are excellent report identification text strings.

   – Region numbers can be used to select pages that contain quarterly sales data.

   – "Summary" can be used to select the sales data summary pages.

4. On the Report Definition Attributes panel:

   a. Enter **P** under Type.

   b. Enter **N** (NO) under Reus because you do not want to use the segment to identify another report.

   c. Enter **EQ** under Op.

   d. Enter **2** under Beg Line and **3** under End line because the text string 01 starts at line 2 or line 3 on the page.

   e. Enter **8** under Col because the string 01 (the string you are searching for) starts at the eighth column of the page.

   f. Enter **01** under Text.

```
CA Deliver ------------ Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90526-R01                      Job     ---> U90526
  Step   ---> SALESTEP     Procstep --->      DD      ---> REPORTS
                                              Type    ---> STACK
 Report Identification Text:
           Line      Column
Sel Typ R Op Beg End Beg    End   Text                       Cols 001 046
    P   N EQ 2   3   8            01



******************************* Bottom of Data *******************************
```

5. Press Enter to refresh the Report Definition Attributes panel.

6. On the second line of the Report Definition Attributes panel:

    a. Enter **P** under Type.

    b. Enter **Y** (YES) under (R)eus

       You want to extract regional sales summary segments that are neither contiguous to the segment you just specified nor contiguous to each other.

    c. Enter **EQ** under Op.

    d. Enter **1** under Line because the string Summary starts at line 1.

    e. Enter **44** under Col because the string Summary starts at column 44 of the page.

    f. Enter **SUMMARY** under Text.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                               Scroll ===> PAGE

  ID     ---> U90526-R01                        Job     ---> U90526
  Step   ---> SALESTEP     Procstep --->        DD      ---> REPORTS
                                                Type    ---> STACK
 Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg   End   Text                              Cols 001 046
   PAG N EQ 2   3   8              '01'
    P   Y EQ 1       44            SUMMARY



****************************** Bottom of Data ********************************
```

7. Enter END on the command line and press Enter to display the Report Definition Attributes panel.

8. Enter **END** on the command line and press Enter to save the information you entered for report 1 in the database.

You are now ready to specify report definition attributes for report 2.

Example of Report 1 Output

Report 1 looks like this when it is output by CA Deliver.

Step 4: Specify Report Definition Attributes for Report 2

1. On the command line of the Report Definition Attributes panel, enter **COPY U90526-R01 ALL** and press Enter.

```
CA Deliver ------------- Report Definition Attributes ------------ Report saved
Command ===> COPY U90526-R01 ALL

  ID     ---> U90526-R02                         Job     ---> U90526
  Step   --->                Procstep --->        DD      --->
                                                 Type    ---> STACK
  Desc   ==>
  Arch ID ==>

Attributes:
  ARCH    ==>             BANNER ==>            BURST  ==>
  CC      ==>             CLASS  ==>            COPIES ==>
  FCB     ==>             FORM   ==>            FLASH  ==> (   ,  )
  LATE    ==>             OPTCDJ ==>            UCS    ==>
  FORMDF ==>              PAGEDF ==>            PRMODE ==>
  PRSET  ==>              PRTY   ==>            GRPID  ==>
  CHARS  ==> (      ,      ,      ,       )     MODIFY ==> (  ,  )
  COPYG  ==> (      ,      ,    ,    ,    ,    ,    ,    )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

    B - Bundle specifications.       D - Distribution specifications.
    I - Special instructions.        T - Report identification text.
```

Note: All distribution specification information (including the default parameter information) is copied from report U90526-R01 to report U90526-R02.

2. Replace the text REGION 01 SALES with **REGION 03 SALES** in the Desc field.

```
CA Deliver ------------- Report Definition Attributes -------- Report ID copied
Command ==>

  ID    ---> U90526-R02                     Job    ---> U90526
  Step  --->              Procstep --->      DD     --->
                                             Type   ---> STACK
  Desc   ==>  REGION 03 SALES
  Arch ID ==>

Attributes:
  ARCH  ==> 1           BANNER ==>           BURST  ==>
  CC    ==>             CLASS  ==>           COPIES ==>
  FCB   ==>             FORM   ==>           FLASH  ==> (   ,  )
  LATE  ==> 22:00       OPTCDJ ==>           UCS    ==>
  FORMDF ==>            PAGEDF ==>           PRMODE ==>
  PRSET ==>             PRTY   ==>           GRPID  ==>
  CHARS ==> (     ,     ,     ,     )        MODIFY ==> (   , )
  COPYG ==> (    ,    ,    ,    ,    ,    ,    ,    )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.        D - Distribution specifications.
     I - Special instructions.         T - Report identification text.
```

3. Press Enter to refresh the Report Definition Attributes panel.

4. Enter **D** on the command line and press Enter to display the Distribution Specifications subpanel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00001
Command ==>                                              Scroll ==> PAGE

  ID    ---> U90526-R02                     Job    ---> U90526
  Step  --->              Procstep --->      DD     --->
                                             Type   ---> STACK
 Distribution Specifications:                            Writer/  Days
Sel Grp Distribution ID            Out Dest            Eformat  MTWTFSS
      D30SMG01                     Y                            YYYYYYY
****************************** Bottom of Data ******************************
```

5. Define report 2 to go to the sales manager for region 3, Richard Smith.

    To use new distribution information, replace the last 1 in the distribution identifier D30SMG01 with the number 3 .

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00001
Command ===>                                              Scroll ===> PAGE

  ID    ---> U90526-R02                        Job    ---> U90526
  Step  --->            Procstep --->          DD     --->
                                               Type   ---> STACK
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID              Out Dest          Eformat   MTWTFSS
        D30SMG03                        Y                         YYYYYYY
***************************** Bottom of Data ****************************
```

6. Enter **I** on the command line and press Enter to display the Special Instructions subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00001
Command ===>                                             Scroll ===> PAGE

  ID     ---> U90526-R02                         Job    ---> U90526
  Step   --->              Procstep --->         DD     --->
                                                 Type   ---> STACK
 Special Instructions:
Sel Instruction
    'REGION 01 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY'
****************************** Bottom of Data ******************************
```

7. Define report 2 to go to the sales manager for region 3, Richard Smith.

   To use new distribution information, replace 01 in the instruction REGION 01 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY with 03.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00001
Command ===>                                             Scroll ===> PAGE

  ID     ---> U90526-R02                         Job    ---> U90526
  Step   --->              Procstep --->         DD     --->
                                                 Type   ---> STACK
 Special Instructions:
Sel Instruction
    'REGION 03 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY'
****************************** Bottom of Data ******************************
```

8. Enter **T** on the command line and press Enter to display the Report Identification Text subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00002
Command ===>                                             Scroll ===> PAGE

  ID     ---> U90526-R02                         Job    ---> U90526
  Step   --->              Procstep --->         DD     --->
                                                 Type   ---> STACK
 Report Identification Text:
          Line     Column
Sel Typ R Op Beg End Beg   End    Text                        Cols 001 046
    PAG N EQ 2   3   8            '01'
    PAG Y EQ 1       44           'SUMMARY'
```

```
******************************* Bottom of Data *******************************
```

Step 5: Specify Identification Text for Report 2

1. On the Report Identification Text subpanel, change 01 in the first row of the Text column to **03**.

2. Enter **END** on the command line and press Enter to return to the Report Definition Attributes panel.

3. Enter **END** on the command line and press Enter to save the information you entered for report 2 in the database.

Example of Report 2 Output

Report 2 looks like this illustration when it is output by CA Deliver.

You are now ready to specify report definition attributes for report 3.

Step 6: Specify Report Definition Attributes for Report 3

1. On the command line of the Report Definition Attributes panel, enter **COPY U90526-R02 ALL**, and press Enter.

```
CA Deliver ------------- Report Definition Attributes ------------ Report saved
Command ===> COPY U90526-R02 ALL

  ID     ---> U90526-R03                         Job    ---> U90526
  Step   --->              Procstep --->         DD     --->
                                                 Type   ---> STACK
  Desc    ==>
  Arch ID ==>

Attributes:
  ARCH    ==>            BANNER ==>            BURST  ==>
  CC      ==>            CLASS  ==>            COPIES ==>
  FCB     ==>            FORM   ==>            FLASH  ==> (  ,   )
  LATE    ==>            OPTCDJ ==>            UCS    ==>
  FORMDF ==>             PAGEDF ==>            PRMODE ==>
  PRSET   ==>            PRTY   ==>            GRPID  ==>
  CHARS   ==> (     ,     ,     ,      )       MODIFY ==> (  ,  )
  COPYG   ==> (     ,     ,     ,    ,     ,     ,     ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.        D - Distribution specifications.
     I - Special instructions.         T - Report identification text.
```

Note: Report definition attribute information (including default parameter information) is copied from the Report Definition Attributes panel for report U90526-R02 to the Report Definition Attributes panel for report U90526-R03.

2. Replace the text **REGION 03 SALES** with **REGION 02 & 04 SALES** in the Desc field.

```
CA Deliver ------------- Report Definition Attributes -------- Report ID copied
Command ==>

  ID    ---> U90526-R03                        Job    ---> U90526
  Step  --->            Procstep --->          DD     --->
                                               Type   ---> STACK
  Desc    ==> REGION 02 & 04 SALES
  Arch ID ==>

Attributes:
  ARCH  ==> 1            BANNER ==>            BURST  ==>
  CC    ==>              CLASS  ==>            COPIES ==>
  FCB   ==>              FORM   ==>            FLASH  ==> (   ,  )
  LATE  ==> 22:00        OPTCDJ ==>            UCS    ==>
  FORMDF ==>             PAGEDF ==>            PRMODE ==>
  PRSET ==>              PRTY   ==>            GRPID  ==>
  CHARS ==> (      ,      ,      ,      )      MODIFY ==> (  ,  )
  COPYG ==> (      ,     ,     ,     ,     ,     ,     ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.       D - Distribution specifications.
     I - Special instructions.        T - Report identification text.
```

3. Enter **D** on the command line and press Enter to display the Distribution Specifications subpanel.

4. Define report 2 to go to the sales manager for regions 2 and 4, Steve Kelley.

   To use new distribution information, replace the last 3 in the distribution identifier D30SMG03 with 2.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00001
Command ==>                                                  Scroll ==> PAGE

  ID    ---> U90526-R03                        Job    ---> U90526
  Step  --->            Procstep --->          DD     --->
                                               Type   ---> STACK
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID             Out Dest          Eformat  MTWTFSS
     D30SMG02                         Y                         YYYYYYY
****************************** Bottom of Data ******************************
```

5. Enter **I** on the command line and press Enter to display the Special Instructions subpanel.

6. Define report 3 to go to the sales manager for regions 2 and 4, Steve Kelley.

   To use the new distribution information, change the Instruction **REGION 03 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY** to REGIONS 02 & 04 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00001
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90526-R03                      Job    ---> U90526
  Step   --->              Procstep --->      DD     --->
                                              Type   ---> STACK
 Special Instructions:
Sel Instruction
    'REGIONS 02 & 04 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY'
****************************** Bottom of Data ******************************
```

7. Enter **T** on the command line and press Enter to display the Report Identification Text subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00002
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90526-R03                      Job    ---> U90526
  Step   --->              Procstep --->      DD     --->
                                              Type   ---> STACK
 Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg   End   Text                          Cols 001 046
    PAG N EQ 2   3   8           '03'
    PAG Y EQ 1       44          'SUMMARY'


****************************** Bottom of Data ******************************
```

Step 7: Specify Identification Text for Report 3

1. On the Report Identification Text subpanel, enter the Repeat tabular command **R** on the first row in the Sel column and press Enter.

   This action copies the first line once and inserts it between the first and second lines.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00002
Command ===>                                               Scroll ===> PAGE

  ID     ---> U90526-R03                      Job     ---> U90526
  Step   --->              Procstep --->       DD      --->
                                               Type    ---> STACK
 Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg   End    Text                          Cols 001 046
 R  PAG N EQ 2   3   8               '03'
    PAG Y EQ 1       44              'SUMMARY'


****************************** Bottom of Data ******************************
```

Three lines are now displayed.

2. On line 1:

   a. Change N to **Y** under Reus.

   b. Change 03 to **02** under Text.

3. On line 2:

   a. Change PAG to **OR** under Type.

   b. Change 03 to **04** under Text.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00003
Command ===>                                               Scroll ===> PAGE

  ID     ---> U90526-R03                      Job     ---> U90526
  Step   --->              Procstep --->       DD      --->
                                               Type    ---> STACK
 Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg   End    Text                          Cols 001 046
    PAG Y EQ 2   3   8               '02'
    OR  N EQ 2   3   8               '04'
    PAG Y EQ 1       44              'SUMMARY'


****************************** Bottom of Data ******************************
```

4. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

5. Enter **END** on the command line and press Enter to save the information you entered for report 3 in the database.

Example of Report 3 Output

Report 3 looks like this illustration when it is output by CA Deliver.

You are now ready to specify report definition attributes for report 4.

Step 8: Specify Report Definition Attributes for Report 4

1. On the command line of the Report Definition Attributes panel, enter **COPY U90526-R03 ALL**, and press Enter.

   This action causes all distribution specification information (including default parameter information) to be copied from report U90526-R03 to report U90526-R04.

```
CA Deliver ------------- Report Definition Attributes ------------ Report saved
Command ===> COPY U90526-R03 ALL

  ID     ---> U90526-R04                        Job     ---> U90526
  Step   --->              Procstep --->         DD      --->
                                                 Type    ---> STACK
  Desc    ==>
  Arch ID ==>

Attributes:
  ARCH   ==>            BANNER ==>            BURST  ==>
  CC     ==>            CLASS  ==>            COPIES ==>
  FCB    ==>            FORM   ==>            FLASH  ==> (  ,   )
  LATE   ==>            OPTCDJ ==>            UCS    ==>
  FORMDF ==>            PAGEDF ==>            PRMODE ==>
  PRSET  ==>            PRTY   ==>            GRPID  ==>
  CHARS  ==> (     ,     ,     ,     )       MODIFY ==> (   , )
  COPYG  ==> (     ,     ,     ,     ,     ,     ,     ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.       D - Distribution specifications.
     I - Special instructions.        T - Report identification text.
```

2. Replace the text REGION 02 & 04 SALES with **COMPLETE QUARTERLY SALES** on the
    DESC line of the Report Definition Attributes panel.

```
CA Deliver ------------- Report Definition Attributes -------- Report ID copied
Command ===>

  ID     ---> U90526-R04                        Job     ---> U90526
  Step   --->              Procstep --->         DD      --->
                                                 Type    ---> STACK
  Desc    ==> COMPLETE QUARTERLY SALES
  Arch ID ==>

Attributes:
  ARCH   ==> 1          BANNER ==>            BURST  ==>
  CC     ==>            CLASS  ==>            COPIES ==>
  FCB    ==>            FORM   ==>            FLASH  ==> (  ,   )
  LATE   ==> 22:00      OPTCDJ ==>            UCS    ==>
  FORMDF ==>            PAGEDF ==>            PRMODE ==>
  PRSET  ==>            PRTY   ==>            GRPID  ==>
  CHARS  ==> (     ,     ,     ,     )       MODIFY ==> (   , )
  COPYG  ==> (     ,     ,     ,     ,     ,     ,     ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.       D - Distribution specifications.
     I - Special instructions.        T - Report identification text.
```

3. Enter **D** on the command line and press Enter to display the Distribution Specifications subpanel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00001
Command ===>                                              Scroll ===> PAGE

  ID    ---> U90526-R04                         Job    ---> U90526
  Step  --->                Procstep --->        DD     --->
                                                 Type   ---> STACK
 Distribution Specifications:                          Writer/  Days
Sel Grp Distribution ID              Out Dest          Eformat  MTWTFSS
        D30SMG02                       Y                         YYYYYYY
***************************** Bottom of Data *****************************
```

4. Define report 4 to go to the Vice President of Sales, Molly Bloom..

   To use the new distribution information, replace the distribution identifier **D30SMG02** with D01VPRES.

5. Replace **Y** under Out with **N** to indicate that this report is for online viewing only.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00001
Command ===>                                              Scroll ===> PAGE

  ID    ---> U90526-R04                         Job    ---> U90526
  Step  --->                Procstep --->        DD     --->
                                                 Type   ---> STACK
 Distribution Specifications:                          Writer/  Days
Sel Grp Distribution ID              Out Dest          Eformat  MTWTFSS
        D01VPRES                       N                         YYYYYYY
***************************** Bottom of Data *****************************
```

   Report 4 is also going to the president of Amalgamated American Manufacturing, Mary Shelley.

6. Copy the line you just corrected.

7. Enter the Repeat tabular command **R** on the first row in the Sel column and press Enter.

   The line is copied once.

```
 CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00001
 Command ===>                                           Scroll ===> PAGE

   ID     ---> U90526-R04                        Job    ---> U90526
   Step   --->             Procstep --->         DD     --->
                                                 Type   ---> STACK
  Distribution Specifications:                            Writer/   Days
 Sel Grp Distribution ID             Out Dest           Eformat  MTWTFSS
  R      D01VPRES                     N                          YYYYYYY
 ***************************** Bottom of Data *****************************
```

8. Replace the second distribution identifier D01VPRES with **D01PRES**.

9. Replace N under Out with **Y**.

```
 CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00002
 Command ===>                                           Scroll ===> PAGE

   ID     ---> U90526-R04                        Job    ---> U90526
   Step   --->             Procstep --->         DD     --->
                                                 Type   ---> STACK
  Distribution Specifications:                            Writer/   Days
 Sel Grp Distribution ID             Out Dest           Eformat  MTWTFSS
         D01VPRES                     N                          YYYYYYY
         D01PRES                      Y                          YYYYYYY
 ***************************** Bottom of Data *****************************
```

10. Enter **I** on the command line and press Enter to display the Special Instructions subpanel.

```
 CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00001
 Command ===>                                           Scroll ===> PAGE

   ID     ---> U90526-R04                        Job    ---> U90526
   Step   --->             Procstep --->         DD     --->
                                                 Type   ---> STACK
  Special Instructions:
 Sel Instruction
     'REGIONS 02 & 04 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY'
 ***************************** Bottom of Data *****************************
```

11. Change the instruction REGIONS 02 & 04 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY to **QUARTERLY SALES REPORT FOR ALL REGIONS - REVIEW IMMEDIATELY**.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00001
Command ===>                                               Scroll ===> PAGE

  ID    ---> U90526-R04                          Job    ---> U90526
  Step  --->              Procstep --->          DD     --->
                                                 Type   ---> STACK
 Special Instructions:
Sel Instruction
     'QUARTERLY SALES REPORT FOR ALL REGIONS - REVIEW IMMEDIATELY'
****************************** Bottom of Data ******************************
```

12. Enter **T** on the command line and press Enter to display the Report Identification Text subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00003
Command ===>                                               Scroll ===> PAGE

  ID    ---> U90526-R04                          Job    ---> U90526
  Step  --->              Procstep --->          DD     --->
                                                 Type   ---> STACK
 Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg   End   Text                        Cols 001 046
    PAG Y EQ 2   3   8          '02'
    OR  N EQ 2   3   8          '04'
    PAG Y EQ 1       44         'SUMMARY'

****************************** Bottom of Data ******************************
```

Step 9: Specify Identification Text for Report 4

Report 4 consists of the entire data set. The report identification text criteria specified in these steps are guaranteed to select the entire data set (because the text in the first row, first column is always either a blank or not a blank).

1. On Line 1 on the Report Identification Text subpanel:

    a. Change Y to **N** under Reus.

    b. Change 2 to **1** under Beg Line and 3 to **blank** under End Line.

    c. Change 8 to **1** under Col.

d. Change O2 to a space (press the Space Bar once) under Text.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00003
Command ==>                                              Scroll ==> PAGE

  ID    ---> U90526-R04                          Job    ---> U90526
  Step  --->              Procstep --->          DD     --->
                                                 Type   ---> STACK
 Report Identification Text:
           Line    Column
Sel Typ R Op Beg End Beg   End    Text
    PAG N EQ 1     1            ' '
    OR  N EQ 2     8            '04'
    PAG Y EQ 1     44           'SUMMARY'

****************************** Bottom of Data ******************************
```

2. On line 2:

a. Change EQ to **NE** under Op.

b. Change 2 to **1** under Beg Line and 3 to **blank** under End Line.

c. Change 8 to **1** under Col.

d. Change '04' to a space (press the Space Bar once) under Text.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00003

Command ==>                                              Scroll ==> PAGE

  ID    ---> U90526-R04                          Job    ---> U90526
  Step  --->              Procstep --->          DD     --->
                                                 Type   ---> STACK
 Report Identification Text:
           Line    Column
Sel Typ R Op Beg End Beg   End    Text
    PAG N EQ 1     1            ' '
    OR  N NE 1     1            ' '
    PAG Y EQ 1     44           'SUMMARY'

****************************** Bottom of Data ******************************
```

3. Move the cursor to the third row, enter **D** (Delete tabular command) in the Sel column, and press Enter.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00002
Command ===>                                                Scroll ===> PAGE

  ID    ---> U90526-R04                          Job    ---> U90526
  Step  --->              Procstep --->          DD     --->
                                                 Type   ---> STACK
 Report Identification Text:
              Line     Column
Sel Typ R Op Beg End Beg   End   Text
    PAG N EQ 1       1              ' '
    OR  N NE 1       1              ' '

****************************** Bottom of Data ******************************
```

4. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

When you exit the Report Definition Attributes panel, the information you entered for report 4 is saved in the database.

Example of Report 4 Output

Report 4 looks like this illustration when it is output by CA Deliver.

Molly Bloom's Report

Molly Bloom's report is not printed, because she requested the report for online viewing only.

Step 10: Specify Report Definition Attributes for Report 5

Follow these steps:

1. On the command line of the Report Definition Attributes panel, enter **COPY U90526-R04 ALL**, and press Enter.

   This action copies all distribution specification information (including default parameter information) from report U90526-R04 to report U90526-R05..

```
CA Deliver ------------- Report Definition Attributes ------------ Report saved
Command ===> COPY U90526-R04 ALL

  ID    ---> U90526-R05                        Job    ---> U90526
  Step  --->             Procstep --->         DD     --->
                                               Type   ---> STACK

  Desc   ===>
  Arch ID ===>

Attributes:
  ARCH   ===>           BANNER ===>            BURST  ===>
  CC     ===>           CLASS  ===>            COPIES ===>
  FCB    ===>           FORM   ===>            FLASH  ===> (  ,   )
  LATE   ===>           OPTCDJ ===>            UCS    ===>
  FORMDF ===>           PAGEDF ===>            PRMODE ===>
  PRSET  ===>           PRTY   ===>            GRPID  ===>
  CHARS  ===> (     ,      ,      ,      )     MODIFY ===> (   , )
  COPYG  ===> (     ,    ,    ,    ,    ,    ,    ,    )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

    B - Bundle specifications.       D - Distribution specifications.
    I - Special instructions.        T - Report identification text.
```

2. Replace the text COMPLETE QUARTERLY SALES with **REGION 02 & 04 Summary** on the DESC line of the Report Definition Attributes panel.

```
A Deliver ------------- Report Definition Attributes -------- Report ID copied
Command ===>

  ID    ---> U90526-R05                        Job   ---> U90526
  Step  --->            Procstep --->          DD    --->
                                               Type  ---> STACK
  Desc   ==> Region 02 & 04 Summary
  Arch ID ==>

Attributes:
  ARCH   ==> 1          BANNER ==>             BURST  ==>
  CC     ==>            CLASS  ==>             COPIES ==>
  FCB    ==>            FORM   ==>             FLASH  ==> (   ,  )
  LATE   ==> 22:00      OPTCDJ ==>             UCS    ==>
  FORMDF ==>            PAGEDF ==>             PRMODE ==>
  PRSET  ==>            PRTY   ==>             GRPID  ==>
  CHARS  ==> (     ,       ,       ,      )    MODIFY ==> (   , )
  COPYG  ==> (     ,     ,     ,     ,     ,     ,     ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

    B - Bundle specifications.     D - Distribution specifications.
    I - Special instructions.      T - Report identification text.
```

3. Enter **D** on the command line and press Enter to display the Distribution
    Specifications subpanel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00001
Command ===>                                              Scroll ===> PAGE

  ID    ---> U90526-R05                        Job   ---> U90526
  Step  --->            Procstep --->          DD    --->
                                               Type  ---> STACK
 Distribution Specifications:                            Writer/   Days
Sel Grp Distribution ID            Out Dest             Eformat  MTWTFSS
      D01VPRES                       N                            YYYYYYY
****************************** Bottom of Data ******************************
```

4. Define Report 5 to go to Steve Kelley, the sales manager for Regions 2 and 4.

    a. Replace the distribution identifier D01VPRES with **D30SMG02**.

    b. Replace N under Out with **Y** to indicate that this recipient is to receive a
        printed copy of the report.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00001
Command ===>                                              Scroll ===> PAGE

  ID    ---> U90526-R05                        Job   ---> U90526
  Step  --->            Procstep --->          DD    --->
                                               Type  ---> STACK
 Distribution Specifications:                            Writer/   Days
Sel Grp Distribution ID            Out Dest             Eformat  MTWTFSS
      D30SMG02                       Y                            YYYYYYY
****************************** Bottom of Data ******************************
```

5. Enter **I** on the command line and press Enter to display the Special Instructions subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00001
Command ===>                                            Scroll ===> PAGE

  ID     ---> U90526-R05                      Job     ---> U90526
  Step   --->            Procstep --->        DD      --->
                                              Type    ---> STACK
 Special Instructions:
Sel Instruction
    'QUARTERLY SALES REPORT FOR ALL REGIONS - REVIEW IMMEDIATELY'
****************************** Bottom of Data ******************************
```

6. Change the instruction QUARTERLY SALES REPORT FOR ALL REGIONS - REVIEW IMMEDIATELY to **REGIONS 02 & 04 Regional Sales Summary**.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00001
Command ===>                                            Scroll ===> PAGE

  ID     ---> U90526-R05                      Job     ---> U90526
  Step   --->            Procstep --->        DD      --->
                                              Type    ---> STACK
 Special Instructions:
Sel Instruction
    'REGIONS 02 & 04 Regional Sales Summary '
****************************** Bottom of Data ******************************
```

7. Enter **T** on the command line and press Enter to display the Report Identification Text subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00003
Command ===>                                            Scroll ===> PAGE

  ID     ---> U90526-R05                      Job     ---> U90526
  Step   --->            Procstep --->        DD      --->
                                              Type    ---> STACK
 Report Identification Text:
            Line     Column
Sel Typ R Op Beg End Beg    End    Text                     Cols 001 046
    PAG N EQ 1        1            ' '
    OR  N NE 1        1            ' '


****************************** Bottom of Data ******************************
```

Step 11: Specify Identification Text for Report 5

Report 4 consists of the entire data set. Use the report identification text criteria specified in these steps to select the entire data set.

Note: The text in the first row, first column is always either a blank or not a blank.

1. Enter values into the fields over the existing Identification text so that your panel looks like this example.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00003
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90526-R05                    Job    ---> U90526
  Step   --->              Procstep --->    DD     --->
                                            Type   ---> STACK
  Report Identification Text:
            Line     Column
Sel Typ R Op Beg End Beg    End    Text
    PAG Y EQ 2   3   8              '02'
    AOR N EQ 2   3   8              '04'
    AND N EQ 1       44             'SUMMARY'

****************************** Bottom of Data *******************************
```

In the above identification text the AOR type is used. AOR indicates an 'or' condition for the statement.

Note: The OR Type is an 'or' condition at the segment level.

The statements are interpreted as follows:

```
( line 2-3, column 8 = '02' OR  '04' ) AND line 1 column 44 = SUMMARY
```

This identification text selects all pages containing Region 02 or Region 04 and the pages selected must also contain the SUMMARY identifier.

2. Exit the Report Definition Attributes panel.

The information you entered for report 5 is saved in the database.

.

Example of Report 5 Output

Report 5 looks like this illustration when it is output by CA Deliver.

Step 12: Close Panels and Finish Your Work

1. On the command line of the Report Definition Attributes panel, enter **END** and press Enter.

   This action does the following:

   ■ Adds the report you defined to the database

   ■ Displays the Reports for Job panel for the job.

```
CA Deliver --------------- Reports for Job: U90526 -------------- Report saved
Command ==>                                            Scroll ==> PAGE

 Desc    ==> QUARTERLY SALES
 Prevrun ==>

Sel Stepname Procstep DDname    Report ID                     Type  Prevrun
    SALESTEP          REPORTS    U90526-R01                    STACK
                                 U90526-R02                    STACK
                                 U90526-R03                    STACK
                                 U90526-R04                    STACK
                                 U90526-R05.......................STACK




****************************** Bottom of Data ********************************
```

2. Enter **END** on the command line and press Enter to display the Primary Selection Menu.

   The message U90526 SAVED is displayed in the short message area and he job is added to the database.

You are now ready to run the job.

Step 13: Submit the Report

When you submit the job, the system:

■ Obtains the report output from the application program you specified in the JCL for the job (U90526A in this example)

■ Separates the output into unique reports that contain overlapping segments of the data

■ Adds a banner page to the front and end of each report

■ Prints each report for distribution

Chapter 7: Defining Reports Created from Interleaved Records

This chapter explains how to define reports created from interleaved records. Interleaved records are individual records that are extracted from a single SYSOUT data set.

Note: The use of reports that contain interleaved records is becoming less common. Before proceeding, be certain that your site uses these kinds of reports.

This section contains the following topics:

What Is an Interleave Identifier?

An *interleave identifier* is a single character—usually a letter from A–Z, a digit from 0–9, or a national character ($, #, @)—that specifies where and how records in a SYSOUT data set are to be put together to create a report from interleaved records.

Interleave identifiers are inserted by report generators like the Report Program Generator (RPG). These identifiers are in the first or second column of a record, depending on whether a carriage control character is specified in the first column in the record format.

You specify interleave identifiers in CA Deliver the same way you specify report identification text.

Examples

This example shows an interleave identifier.

Notice the characters **1B** in the upper left corner:

■   The number **1** is a carriage control character, not an interleave identifier.

■   The character **B** is the interleave identifier.

```
1BReport-01B ----- Subsidiary Sales----- Amalgamated American Manufacturing




            "B" is an interleave identifier
```

Interleaved SYSOUT Data

This is the interleaved SYSOUT data--this is the data from which you will create reports in this chapter.

```
1ERECJOB01 ******************* SALES RESULTS 2012 213 7/20/12 ******************* PAGE 01
 E
OEREPORT-01E ---------SUBSIDIARY SALES -----------Amalgamated American Manufacturing
 E
OE   Name                Address                Phone          YTD SALES 2000    Sub.
 E   ****                *******************    *** *** ****   *****************
 E
OE   Zilch Nichols       19255 Burk St, Hollywood   213 555 9800   $95,875,000.00  76-94
OE   Zenith Realty       9009 Mason Av, Short Beach  213 555 8064   $ 2,700,590.00
OE   Zwebe Stationary    1256 Blip Bl, Newtown       213 555 6793   $55,900,000.00
 E
1BRECJOB01 ******************* SALES RESULTS 2012 818 7/20/12 ******************* PAGE 01
 B
OBReport-01B ---------SUBSIDIARY SALES -----------Amalgamated American Manufacturing

OB   Name                Address                Phone          YTD SALES 2012    Sub.
 B   ****                *******************    *** *** ****   ****************
 B
OB   Jewelry Design      19555 Vent Bl, Tazmania    818 555 5678   $10,886,401.00   47-94
OB   Bob's Bail Bonds    140 Erving St, Clifton      818 555 3343   $13,012,000.00
```

Elements of Interleaved SYSOUT Data

This list describes the elements of the interleaved SYSOUT data shown in the previous illustration.

0, 1, and blank (first column)

A carriage control character

E and B (second column)

An interleave identifier

1ERECJOB01 * * * * *...

 E

0Ereport-01E...

 E

0E   Name...

 E   * * *   *...

 E

0EZilch Nichols...

0EZenith Realty...

0EZwebe Stationery...

The set of interleaved records of SYSOUT data that make up report 1

1BRECJOB01 * * * * *...

 B

0BReport-01B...

 B

0B   Name...

 B   * * *   *...

 B

0BJewelry Design...

Bob's Bail Bonds...

The set of interleaved records of SYSOUT data that make up report 2

Order of Records in Data Sets

The previous illustration shows records in a logical grouping, but SYSOUT records from different reports can be mixed. Note the following:

■ CA Deliver processes interleaved records in the order in which they are encountered.

■ The records must remain in the same relative order in any one report identified by the same interleave identifier.

For example, the records in the previous illustration can be reorganized as shown in this illustration, but they still produce the exact same reports.

```
1ERECJOB01 ******************** SALES RESULTS 2012 213 7/20/12 ******************** PAGE 01
 E
OEREPORT-01E ---------SUBSIDIARY SALES ------------Amalgamated American Manufacturing
 E
OE   Name                 Address                Phone         YTD SALES 2012      Sub.
 E   ****                 ********************    *** *** ****    ******************
 E
1BRECJOB01 ******************** SALES RESULTS 2012 818 7/20/12 ******************** PAGE 01
 B
OBReport-01B ---------SUBSIDIARY SALES ------------Amalgamated American Manufacturing

OB   Name                 Address                Phone         YTD SALES 2012      Sub.
 B   ****                 ********************    *** *** ****    ******************

OE   Zilch Nichols        19255 Burk St, Hollywood   213 555 9800   $95,875,000.00   76-94
OB   Jewelry Design       19555 Vent Bl, Tazmania    818 555 5678   $10,886,401.00   47-94
OE   Zenith Realty        9009 Mason Av, Short Beach  213 555 8064   $ 2,700,590.00
OE   Zwebe Stationary     1256 Blip Bl, Newtown      213 555 6793   $55,900,000.00
OB   Bob's Bail Bonds     140 Erving St, Clifton     818 555 3343   $13,012,000.00
 E
 B
```

What Is a Report Created From Interleaved Records?

A *report created from interleaved records* is a report that contains individual records extracted from a single SYSOUT data set. These records contain the same interleave identifier.

In most cases, you define reports created from interleaved records from data output by the RPG report generator language.

This illustration shows a report created from interleaved records. (This is the report that is defined in the scenario presented in this chapter.)

```
RECJOB01 ************** SALES RESULTS 2012 818  7/20/12 *************** PAGE 01

Report-01B ----- Subsidiary Sales -------- Amalgamated American Manufacturing

      Name           Address              Phone          YTD SALES 00  Sub.
      ****           *******              *****          ************* *****    END *
                                                                                END *
                                                                                END *
   Jewelry Design  19555 Vent Bl, Tazmania    818 555-5678  $10,886,401.00 47-94  END *
                                                                                  1  *
   Bob's Bail Bonds 140 Erving St, Clifton    818 555-3343  $13,012,000.00        11 *
                                                                                  1  *
 * START *************************************************************** START *  1  *
 * START ******        AMALGAMATED AMERICAN MANUFACTURING       ****** START *   1  *
 * START ******        TEMPLE STREET FACILITY - LOS ANGELES, CA  ****** START *   1  *
 * START *************************************************************** START *  *****
 * RRRRR  EEEEE  CCCC     JJJ  0000  BBBBB   0000   1     RRRRR   0000   1  *        *
 * R   R  E      C    C     J   0   0 B    B 0     0 11      R   R 0     0 11 *       *
 * RRRRR  EEEEE  C          J   0   0 BBBBB   0    0 1 ----- RRRRR  0     0 1 *     *****
 * R   R  E      C          J   0   0 B    B 0     0 1      R   R  0     0 1 *        *
 * R   R  E      C    C J   J   0   0 B    B 0     0 1      R   R  0     0 1 *        *
 * R     R EEEEE  CCCC   JJJ   0000  BBBBB  0000   1        R     R 0000   1 *      *****
 *****************************************************************************       *
 * REPORT ID: RECJOB01-R01    DATE:  07/20/12                               *        *
 * JOBNAME:  RECJOB01          TIME:  14:17:55                              *        *
 * JOBID:    JOB 2223          CLASS: E                                     *        *
 *****************************************************************************        *
 * SEND REPORTS TO:                                                         *        *
 *    MARKETING                                                             *        *
 *    DEPT. 10                                                              *        *
 *****************************************************************************        *
 * SPECIAL INSTRUCTIONS                                                     *        *
 *    SALES RESULTS 2012 - 818 AREA CODE - REVIEW IMMEDIATELY          *            *
 *                                                                          *        *
 *                                                                          *   ****END  *
 *                                                                          *        *
 *                                                                          *        *
 *                                                                          *        *
 *                                                                          *        *
 *                                                                          *        *
 *                                                                          *        *
 *                                                                          *        *
 * START *************************************************************** START *
```

Defining Reports Created From Interleaved Records

Important! Use a test database to practice the procedures in this chapter so that you do not inadvertently change or lose data in your production database.

Before you perform the steps in this process:

■ You must have a distribution identifier defined for the Marketing group.

   Note: For more information about defining distribution identifiers, see the chapter "Defining Basic Reports."

■ CA Deliver must be installed and running with the Primary Selection Menu panel displayed before you begin this section.

This list is an overview of the steps you follow to define a report created from interleaved records.

■ Step 1: Define a job.

■ Step 2: Specify report definition attributes for Report 1.

■ Step 3: Specify an interleave identifier for Report 1.

■ Step 4: Specify Report Definition Attributes for Report 2.

■ Step 5: Specify an interleave Identifier for Report 2.

■ Step 6: Close the panels.

Note: Any lowercase characters you enter on the panels are automatically converted to uppercase.

Scenario

In this scenario, you are George Jones, an employee of Amalgamated American Manufacturing.

The marketing department asks for two reports that summarize the year-to-date 2012 sales results for Amalgamated American Manufacturing's subsidiaries based on telephone area codes. RPG generated the data set that contains these sales results.

Information You Need for Your Fourth JCL

Before you begin, you must determine the column in which the carriage control character and interleave identifier is located.

You talk with the programmer analyst who set up the original RPG that generated the data set that contains the sales results. You learn the following information about the sales results data:

■ The carriage control character is the first character of each record.

■ The interleave identifier is the second character of each record in the sales results data set.

In addition, you determine:

- The job information:
    - The name is to be RECJOB01.
    - The step name is RPGSTEP.
    - The report DDname is RECREPS.
    - The identifiers of the two reports are RECJOB01-R01 and RECJOB01-R02.
- The reports are to be distributed to the Marketing group, whose distribution identifier is DEPARTMENT_10_MARKETING.
- The reports are late if they are not completed by 2:00 p.m.
- The reports are to be archived.

Example of Your Fourth JCL

Use your text editor to prepare a data set that contains the JCL for the job. Here's an example:

```
//RECJOB01 JOB  MSGCLASS=A,NOTIFY=D27SYSP4,CLASS=B
//RPGSTEP  EXEC PGM=RPG
//SYSUDUMP DD   SYSOUT=P
//SYSPRINT DD   SYSOUT=*
//INPUT1   DD   DSN=SALES.INPUT.DATA,DISP=OLD,
//              DCB=(RECFM=FBA,LRECL=133,BLKSIZE=1330)
//RECREPS  DD   SYSOUT=E
```

Major Elements of Your Fourth JCL

This list shows the major elements of your fourth JCL.

//RPGSTEP EXEC PGM=RPG

The application that generates the sales results data (RPG)

//INPUT1 DD DSN=SALES.INPUT.DATA,DISP=OLD,

//   DCB=(RECFM=FBA,LRECL=133,BLKSIZE=1330)

The data set that contains the sales data

The record format statement RECFM=FBA specifies that records contain carriage control characters in the first column and an interleave identifier in the second column.

//RECREPS DD SYSOUT=E

The output controlled by CA Deliver that is used to create the interleaved report output

Step 1: Define a Job

1. On the command line of the Primary Selection Menu panel, enter **J RECJOB01**, and press Enter to display the Reports for Job panel.

2. Do the following on the Reports for Job panel:

   a. Enter **SALES RESULTS 2002** in the Desc field.

   b. Enter **RPGSTEP** under Stepname.

   c. Enter **RECREPS** under DDname.

   d. Enter **RECJOB01-R01** and **RECJOB01-R02** under Report ID.

   e. Enter **I** under Type.

```
CA Deliver --------------- Reports for Job: RECJOB01 ------ Row 00001 of 00010
Command ===>                                          Scroll ===> PAGE

 Desc    ===> SALES RESULTS 2002
 Prevrun ===>

Sel Stepname Procstep DDname    Report ID                    Type  Prevrun
    RPGSTEP           RECREPS   RECJOB01-R01                 I
                                RECJOB01-R02                 I




****************************** Bottom of Data ******************************
```

3. Press Enter to display the Report Definition Attributes panel.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>

  ID    ---> RECJOB01-R01                    Job    ---> RECJOB01
  Step  ---> RPGSTEP      Procstep --->       DD     ---> RECREPS
                                              Type   ---> INTER
  Desc  ===>
  Arch ID ===>

Attributes:
  ARCH   ===>           BANNER ===>           BURST  ===>
  CC     ===>           CLASS  ===>           COPIES ===>
  FCB    ===>           FORM   ===>           FLASH  ===> (   ,  )
  LATE   ===>           OPTCDJ ===>           UCS    ===>
  FORMDF ===>           PAGEDF ===>           PRMODE ===>
  PRSET  ===>           PRTY   ===>           GRPID  ===>
  CHARS  ===> (     ,      ,      ,      )    MODIFY ===> (  ,  )
  COPYG  ===> (     ,    ,    ,    ,    ,    ,    ,    )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

    B - Bundle specifications.       D - Distribution specifications.
    I - Special instructions.        T - Report identification text.
```

Step 2: Specify Report Definition Attributes for Report 1

1. On the Report Definition Attributes panel, do the following:

    a. Enter **SALES RESULTS 2000 818** in the Desc field.

    b. Enter **1** in the ARCH field to specify that the report will be archived.

    c. Enter **14:00** in the LATE field to specify the late time.

        Note: The late time of 14:00 p.m. *does not* guarantee that this report is queued by 14:00 p.m. If the report is queued after 14:00 p.m., the report is flagged on the Active Report List panel.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>

  ID    ---> RECJOB01-R01                      Job    ---> RECJOB01
  Step  ---> RPGSTEP     Procstep --->         DD     ---> RECREPS
                                               Type   ---> INTER

  Desc   ===> SALES RESULTS 2000 818
  Arch ID ===>

Attributes:
  ARCH  ===> 1          BANNER ===>            BURST  ===>
  CC    ===>            CLASS  ===>            COPIES ===>
  FCB   ===>            FORM   ===>            FLASH  ===> (   , )
  LATE  ===> 14:00      OPTCDJ ===>            UCS    ===>
  FORMDF ===>           PAGEDF ===>            PRMODE ===>
  PRSET ===>            PRTY   ===>            GRPID  ===>
  CHARS ===> (     ,      ,     ,     )        MODIFY ===> (  , )
  COPYG ===> (     ,    ,    ,    ,    ,    ,    ,    )


The following attributes may be selected by entering the 1-character selection code
on the command input line:

    B - Bundle specifications.       D - Distribution specifications.
    I - Special instructions.        T - Report identification text.
```

2. Press Enter to refresh the Report Definition Attributes panel.

3. Enter **D** on the command line and press Enter to display the Distribution
    Specifications subpanel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                            Scroll ===> PAGE

  ID    ---> RECJOB01-R01                      Job    ---> RECJOB01
  Step  ---> RPGSTEP     Procstep --->         DD     ---> RECREPS
                                               Type   ---> INTER
 Distribution Specifications:                       Writer/   Days
Sel Grp Distribution ID              Out Dest        Eformat  MTWTFSS




****************************** Bottom of Data ******************************
```

4. Enter the distribution identifier for the marketing group in the Distribution ID field.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID    ---> RECJOB01-R01                      Job    ---> RECJOB01
  Step  ---> RPGSTEP      Procstep --->        DD     ---> RECREPS
                                               Type   ---> INTER
 Distribution Specifications:                         Writer/  Days
Sel Grp Distribution ID            Out Dest          Eformat  MTWTFSS
        DEPARTMENT_10 MARKETING




****************************** Bottom of Data ******************************
```

Leave the remaining fields on the subpanels blank to force the use of the default settings.

5. Enter **I** on the command line of the Distribution Specifications subpanel, and press Enter to display the Special Instructions subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID    ---> RECJOB01-R01                      Job    ---> RECJOB01
  Step  ---> RPGSTEP      Procstep --->        DD     ---> RECREPS
                                               Type   ---> INTER
 Special Instructions:
Sel Instruction




****************************** Bottom of Data ******************************
```

Note: If the Distribution Data for Distid panel appears first, enter distribution delivery information such as printer class, an office number, and so on. Enter **END** on the command line and press Enter twice.

6. Enter the special instructions **SALES RESULTS 2012 - 818 AREA CODE -REVIEW IMMEDIATELY** below the Instruction field, and press Enter.

   The special instructions you entered are enclosed in single quotation marks.

   ```
   CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
   Command ===>                                           Scroll ===> PAGE

     ID     ---> RECJOB01-R01                     Job    ---> RECJOB01
     Step   ---> RPGSTEP      Procstep --->        DD     ---> RECREPS
                                                   Type   ---> INTER
    Special Instructions:
   Sel Instruction
       'SALES RESULTS 2012 – 818 AREA CODE – REVIEW IMMEDIATELY'




   ****************************** Bottom of Data ******************************
   ```

7. Enter **T** on the command line and press Enter to display the Report Identification Text subpanel.

   ```
   CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
   Command ===>                                           Scroll ===> PAGE

     ID     ---> RECJOB01-R01                     Job    ---> RECJOB01
     Step   ---> RPGSTEP      Procstep --->        DD     ---> RECREPS
                                                   Type   ---> INTER
    Report Identification Text:
              Line     Column
   Sel Typ R Op Beg End Beg   End    Text






   ****************************** Bottom of Data ******************************
   ```

   You are now ready to specify an interleave identifier (report identification text) for report 1.

Step 3: Specify an Interleave Identifier for Report 1

To specify an interleave identifier (identification text) for report 1:

1. Get a printout of the SYSOUT data set that contains the records you want to split.

2. Look for the interleave identifier to use to split the records.

   You determine that B is the first interleave identifier.

3. On the Report Definition Attributes panel, enter **B** under Text.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID    ---> RECJOB01-R01                      Job    ---> RECJOB01
  Step  ---> RPGSTEP      Procstep --->         DD     ---> RECREPS
                                                Type   ---> INTER
 Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg    End    Text
             1      1         B



****************************** Bottom of Data ********************************
```

Leave the remaining fields blank because you are specifying a report created from interleaved records; the remaining fields are not used.

4. Press Enter to refresh the Report Identification Text subpanel.

5. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

6. Enter **END** on the command line and press Enter to save the information you entered for report 1 in the database.

You are now ready to specify report definition attributes for report 2.

Example of Report 1 Output

Report 1 looks like this illustration when it is output by CA Deliver.

```
RECJOB01 ************** SALES RESULTS 2012 818  7/20/12 *************** PAGE 01


Report-01B ----- Subsidiary Sales -------- Amalgamated American Manufacturing


    Name          Address                  Phone          YTD SALES 00  Sub.
    ****          *******                  *****          ************** *****    END *
                                                                                  END *
                                                                                  2
    Jewelry Design   19555 Vent Bl, Tazmania      818 555-5678  $10,886,401.00 47-94

    Bob's Bail Bonds 140 Erving St, Clifton       818 555-3343  $13,012,000.00


  * START ***************************************************************** START *
  * START ******           AMALGAMATED AMERICAN MANUFACTURING       ****** START *
  * START ******           TEMPLE STREET FACILITY - LOS ANGELES, CA  ****** START *
  * START ***************************************************************** START *
  *  RRRRR  EEEEE  CCCC    JJJ  0000  BBBBB   0000   1        RRRRR   0000   1  *
  *  R    R E      C    C    J  0     0 B     B 0    0 11     R     R 0     0 11 *
  *  RRRRR  EEEEE C         J  0     0 BBBBB  0     0 1 ----- RRRRR  0     0 1  *
  *  R    R E      C         J  0     0 B     B 0    0 1      R    R  0     0 1  *
  *  R    R E      C    C J  J  0     0 B     B 0    0 1      R    R  0     0 1  *
  *  R    R EEEEE  CCCC   JJJ    0000  BBBBB   0000   1       R    R  0000   1  *
  ***********************************************************************************
  * REPORT ID: RECJOB01-R01     DATE:  07/20/12                          *
  * JOBNAME:   RECJOB01         TIME:  14:17:55                          *
  * JOBID:     JOB 2223         CLASS: E                                 *
  ***********************************************************************************
  * SEND REPORTS TO:                                                    *
  *    MARKETING                                                        *
  *    DEPT. 10                                                         *
  ***********************************************************************************
  * SPECIAL INSTRUCTIONS                                                *
  *   SALES RESULTS 2012 - 818 AREA CODE - REVIEW IMMEDIATELY           *
  *                                                                     *
  *                                                                     *
  *                                                                     *
  *                                                                     *
  *                                                                     *
  *                                                                     *
  *                                                                     *
  *                                                                     *
  *                                                                     *
  *                                                                     *
  *                                                                     *
  *                                                                     *
  * START ***************************************************************** START *
```

Step 4: Copy Report 1 Attributes for Report 2

To specify report definition attributes for report RECJOB01-R02:

1. On the command line of the Report Definition Attributes panel, enter **COPY RECJOB01-R01 ALL** and press Enter.

```
CA Deliver ------------- Report Definition Attributes ------------ Report saved
Command ===> COPY RECJOB01-R01 ALL

  ID     ---> RECJOB01-R02                       Job     ---> RECJOB01
  Step   --->              Procstep --->         DD      --->
                                                 Type    ---> INTER

  Desc   ==>
  Arch ID ==>

Attributes:
  ARCH   ==>            BANNER ==>               BURST  ==>
  CC     ==>            CLASS  ==>               COPIES ==>
  FCB    ==>            FORM   ==>               FLASH  ==> (    ,   )
  LATE   ==>            OPTCDJ ==>               UCS    ==>
  FORMDF ==>            PAGEDF ==>               PRMODE ==>
  PRSET  ==>            PRTY   ==>               GRPID  ==>
  CHARS  ==> (      ,        ,      ,       )    MODIFY ==> (  ,  )
  COPYG  ==> (      ,      ,      ,      ,      ,      ,      ,      )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

    B - Bundle specifications.      D - Distribution specifications.
    I - Special instructions.       T - Report identification text.
```

All distribution specification information (including default parameter information) is copied from report RECJOB01-R01 to report RECJOB01-R02.

2. Enter **I** on the command line of the Report Definition Attributes panel, and press Enter.

    The Special Instructions subpanel is displayed.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                Scroll ===> PAGE

  ID     ---> RECJOB01-R02                    Job     ---> RECJOB01
  Step   --->              Procstep --->      DD      --->
                                              Type    ---> INTER
 Special Instructions:
Sel Instruction
    'SALES RESULTS 2000 — 818 AREA CODE — REVIEW IMMEDIATELY'




****************************** Bottom of Data ******************************
```

3. Replace the area code 818 under Instruction with **213**.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                Scroll ===> PAGE

  ID     ---> RECJOB01-R02                    Job     ---> RECJOB01
  Step   --->              Procstep --->      DD      --->
                                              Type    ---> INTER
 Special Instructions:
Sel Instruction
    'SALES RESULTS 2012 — 213 AREA CODE — REVIEW IMMEDIATELY'




****************************** Bottom of Data ******************************
```

4. Enter **T** on the command line, and press Enter.

    The Report Identification Text subpanel is displayed.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                          Scroll ===> PAGE

  ID     ---> RECJOB01-R02                    Job    ---> RECJOB01
  Step   --->              Procstep --->      DD     --->
                                              Type   ---> INTER
 Report Identification Text:
             Line      Column
Sel Typ R Op Beg End Beg   End   Text
    AND N EQ 1       1            'B'




***************************** Bottom of Data ********************************
```

You are now ready to define an interleave identifier (report identification text) for
report 2.

Step 5: Specify an Interleave Identifier for Report 2

To specify an interleave identifier (identification text) for report 2:

1. Obtain a printout of the SYSOUT data set that contains the records you want to split.

2. Look for the interleave identifier to use to split the records.

   You determine that E is the second interleave identifier.

3. Change B under Text to **E** on the Report Identification Text subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                               Scroll ===> PAGE

  ID    ---> RECJOB01-R02                      Job    ---> RECJOB01
  Step  --->              Procstep --->        DD     --->
                                               Type   ---> INTER
 Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg    End    Text
    AND N EQ 1       1             'E'




******************************* Bottom of Data ********************************
```

Leave the remaining fields blank to specify a report created from interleaved records

Note: The remaining fields are not used.

4. Press Enter to refresh the Report Identification Text subpanel.

   The interleave identifier (identification text) that is to extract records for report 2 is entered into the database.

5. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

When you exit the Report Definition Attributes panel, the information you entered for report 2 is saved in the database.

Example of Report 2 Output

Report 2 looks like this illustration when it is output by CA Deliver.

```
RECJOBO1 ************** SALES RESULTS 2012 213  7/20/12 ************** PAGE 01

Report-01E ----- Subsidiary Sales -------- Amalgamated American Manufacturing

    Name              Address                   Phone         YTD SALES OO  Sub.
    ****              *******                   *****         **************  *****

    Zilch Nichols     19255 Burk St, Gollywood   213 555-9800  $95,875,000.00 76-94

    Zenith Realty     9009 Mason Av, Short Beach  213 555-8064  $ 2,700,590.00

    Zwebe Stationary 1256 Blip Bl,  Newtown      213 555-6793  $55,900,000.00
```

```
END *
END *
      *
2     *
      *
      *
```

```
* START ************************************************************* START *
* START ******           AMALGAMATED AMERICAN MANUFACTURING       ****** START *
* START ******           TEMPLE STREET FACILITY - LOS ANGELES, CA  ****** START *
* START ************************************************************* START *
* RRRRR  EEEEE  CCCC    JJJ  0000  BBBBB   0000   1       RRRRR   0000   1  *
* R    R E      C    C    J  0    0 B    B 0    0 11       R    R 0    0 11 *
* RRRRR  EEEEE C         J  0    0 BBBBB 0    0  1 -----  RRRRR  0    0  1  *
* R  R   E      C         J  0    0 B    B 0    0  1       R  R   0    0  1  *
* R    R E      C    C J  J  0    0 B    B 0    0  1       R    R 0    0  1  *
* R     R EEEEE  CCCC   JJJ    0000  BBBBB   0000   1       R     R 0000   1  *
****************************************************************************
* REPORT ID: RECJOBO1-R01     DATE:  07/20/12                             *
* JOBNAME:    RECJOBO1        TIME:  14:17:55                             *
* JOBID:      JOB 2223        CLASS: E                                    *
****************************************************************************
* SEND REPORTS TO:                                                        *
*    MARKETING                                                            *
*    DEPT. 10                                                             *
****************************************************************************
* SPECIAL INSTRUCTIONS                                                    *
*    SALES RESULTS 2012 - 213 AREA CODE - REVIEW IMMEDIATELY             *
*                                                                         *
*                                                                         *
*                                                                         *
*                                                                         *
*                                                                         *
*                                                                         *
*                                                                         *
*                                                                         *
*                                                                         *
*                                                                         *
* START ************************************************************* START *
```

Step 6: Close Panels and Finish Your Work

This section explains how to close the Report Definition Attributes panel and display the Primary Selection Menu.

1. Enter **END** on the command line of the Report Definition Attributes panel and press Enter.

   The report you defined is saved to the database and the Reports for Job panel is displayed.

```
 CA Deliver --------------- Reports for Job: RECJOB01 ------------ Report saved
 Command ==>                                              Scroll ==> PAGE

  Desc    ==> SALES RESULTS 2000
  Prevrun ==>

 Sel Stepname Procstep DDname    Report ID                      Type  Prevrun
     RPGSTEP           RECREPS   RECJOB01-R01                   INTER
                                 RECJOB01-R02                   INTER




 ***************************** Bottom of Data *******************************

```

2. Enter **END** on the command line, and press Enter to display the Primary Selection Menu panel.

The message RECJOB01 SAVED is displayed in the short message area and the job is added to the database.

You are now ready to run the job.

Chapter 8: Defining Reports That Contain Control Breaks

Reports that contain control breaks are similar to basic reports with the following exceptions:

- CA Deliver inserts a separator page in the generated report wherever it encounters a control break that you defined.

- CA Deliver produces a single report for distribution and the separator pages create, in effect, separate reports.

This chapter provides a scenario to teach you to define a report that contains control breaks including how to:

- Define and identify a report that contains control breaks

- Define and identify a separator page

- Define and identify a control break

- Specify control break identification criteria

- Specify report definition attributes for a report that contains control breaks

This section contains the following topics:

What Is a Control Break?

A control break is a point in the report where data changes. At this point, the system divides a SYSOUT data set into unique pages by inserting a separator page.

This illustration shows a report with a control break.

```
* END ****************************************************************** END *
* END ********        AMALGAMATED AMERICAN MANUFACTURING        ******** END *
 U50500 ***********************  QUARTERLY SALES *********************** PAGE 06
 REGION 02                                                      DIVISION 02
  U50500 ***********************  QUARTERLY SALES *********************** PAGE 05
  REGION 02                                                     DIVISION 02
   U50500 ***********************  QUARTERLY SALES ********************** PAGE 04
   REGION 02                                                    DIVISION 02
  * SEPARATOR ***************************************************** START *
  * SEPARATOR ***************************************************** START *
   U50500 ***********************  QUARTERLY SALES ********************** PAGE 03
   REGION 01                                                    DIVISION 01
    U50500 **********************  QUARTERLY SALES ********************* PAGE 02
    REGION 01                                                   DIVISION 01
     U50500 *********************  QUARTERLY SALES ******************** PAGE 01
     REGION 01                                                  DIVISION 01
  * SEPARATOR ***************************************************** START *
  * SEPARATOR ***************************************************** START *
* START ****************************************************************** START *
* START ******         AMALGAMATED AMERICAN MANUFACTURING       ****** START *
* START ******         TEMPLE STREET FACILITY - LOS ANGELES, CA ****** START *
* START ****************************************************************** START *
*   U     U  555555  0000  555555  0000   0000        RRRRR   0000      1       *
*   U     U  5       0     0 5     0      0 0     0    R   R 0    0     11       *
*   U     U  55555   0     0 55555 0      0 0     0 -- RRRRR 0    0   1 1        *
*   U     U      5 0 0       5 0   0 0    0           R  R   0    0     1        *
*   U     U      5 0 0       5 0   0 0    0           R   R  0    0     1        *
*    UUUU    55555   0000  55555   0000   0000        R    R 0000  111111       *
************************************************************************
* REPORT ID: U50500-R01      DATE: 02/15/12                              *
* JOBNAME:   U50500          TIME: 23:15:42                              *
* JOBID:     JOB 1235        CLASS: E                                    *
************************************************************************
* SEND REPORTS TO:                                                      *
*    MS. MOLLY BLOOM                                                     *
*    DEPT. 01                                                            *
************************************************************************
* SPECIAL INSTRUCTIONS                                                  *
*    REGIONS 01 & 02 SALES REPORT - REVIEW IMMEDIATELY                  *
*                                                                       *
*                                                                       *
*                                                                       *
*                                                                       *
*                                                                       *
*                                                                       *
*                                                                       *
*                                                                       *
*                                                                       *
*                                                                       *
*                                                                       *
* START ****************************************************** START *
```

What Is a Separator Page?

A separator page is a special banner-like page that is inserted between report pages where a control break is specified.

Note: A separator page is also inserted immediately after the start banner page in a report.

This illustration is an example of a separator page.

```
* SEPARATOR ***************************************************** START *
* SEPARATOR ***************************************************** START *
* SEPARATOR ****        AMALGAMATED AMERICAN MANUFACTURING       *********** START *
* SEPARATOR ****      TEMPLE STREET FACILITY - LOS ANGELES, CA  *********** START *
* SEPARATOR ***************************************************** START *
* SEPARATOR ***************************************************** START *
*    U     U 555555  0000  555555  0000   0000       RRRRR   0000   1        *
*    U     U 5      0     0 5      0    0 0    0      R    R 0     0 11       *
*    U     U 55555  0     0 55555  0    0 0    0 ------ RRRRR  0     0 1      *
*    U     U      5 0     0      5 0    0 0    0      R  R   0     0 1        *
*    U     U      5 0     0      5 0    0 0    0      R   R  0     0 1        *
*     UUUU  55555   0000  55555   0000   0000       R    R 0000  11111       *
********************************************************************************
* REPORT ID: U50500-R01     DATE:  02/15/2000                          *
* JOBNAME:   U50500         TIME:  23:15:42                            *
* JOBID:     JOB 1235       CLASS: E                                   *
********************************************************************************
* USER FIELD DISPLAYED:                                               *
*    REGION 01                                                        *
*                                                                     *
*                                                                     *
*                                                                     *
*                                                                     *
********************************************************************************
* SPECIAL INSTRUCTIONS                                                *
*   REGIONS 01 & 02 SALES REPORT - REVIEW IMMEDIATELY                 *
*                                                                     *
*                                                                     *
*                                                                     *
* SEPARATOR ***************************************************** START *
```

What Is a Report That Contains Control Breaks?

A *report containing control breaks* is a report that consists of an entire SYSOUT data set that is distributed as one report.

Banner pages are attached to the beginning and end of the report and separator pages are inserted between report pages wherever a control break is specified.

Control Break Identification Criteria

Control break identification criteria define a location on a report page. When data in this location changes, the system recognizes a control break and inserts a separator page at that location.

Examples

You can specify the following data as control break identification criteria:

- A unique title or heading, such as VENDOR or SUMMARY that appears on the first line of the first page of each segment in a data set

- Descriptive information, such as 01 or 02, in the same location on each page in a data set

Defining a Report Containing Control Breaks

Important! Use a test database to practice the procedure in this chapter so that you do not inadvertently change or lose data in your production database

Before you perform the steps in this process:

■ You must define distribution identifiers for the President and the Vice President of Sales.

Note: For more information about defining distribution identifiers, see the chapter "Defining Basic Reports."

■ CA Deliver must be installed and running with the Primary Selection Menu panel displayed. .

This list is an overview of the steps you follow to define a report that contains control breaks:

■ Step 1: Define a Job for U50500-R01

In this step, you define distribution identifiers for the recipients of the report and define the job in the database.

■ Step 2: Specify Report Definition Attributes

In this step, you specify the report definition attributes, which identify the recipients of a report and specify special instructions that are to be listed on the banner pages of the report.

■ Step 3: Specify Control Break Identification Criteria

In this step, you specify control break identification criteria for the report, which tells the system how to split the output to create the report.

■ Step 4: Close Panels and Finish Your Work

In this step, you submit the job.

When you submit the job, the system obtains the report output from the application program you specified in the JCL for the job (U50500P in this example—yours will differ) and separates the output into unique reports.

Any lowercase characters are automatically converted to uppercase.

Scenario

In this scenario, you are George Jones, a systems programmer in Department 27 of Amalgamated American Manufacturing. The Vice President of Sales, Molly Bloom, requests that you create a report for her and for the President, Mary Shelley. The report must contain quarterly sales data for Amalgamated American Manufacturing's Sales Regions 01 and 02.

You must follow these steps to comply with this request:

1. Extract the quarterly sales data for this report

2. Define the control break identification criteria to indicate where the separator pages are to be inserted.

3. Distribute two copies of the report: one to the President and one to the Vice President of Sales.

Information You Need for Your Fifth JCL

Determine the following:

- The job information:
    - The name of this job is U50500
    - The stepname is QSALESTP
    - The report DDname is QREPORT
    - The identifier of the report is U50500-R01.

- The report is to be distributed to:
    - The Vice President of Sales, Molly Bloom, whose distribution identifier is D01VPRES
    - The President, Mary Shelley, whose distribution identifier is D01PRES.

- The reports are late if they are not completed by 12:00 p.m. midnight.

- The reports are to be archived.

Example of Your Fifth JCL

Use a text editor to prepare a data set that contains the JCL for the job, as shown below:

```
//U50500    JOB  MSGCLASS=A,NOTIFY=D27SYSP4,CLASS=X
//QSALESTP  EXEC PGM=U50500P
//SYSPRINT  DD SYSOUT=*
//FILE1     DD DSN=SYS4.QSFILE,DISP=OLD
//QREPORT   DD SYSOUT=E
```

Major Elements of Your Fifth JCL

This list describes the major elements of your fifth JCL.

//FILE1 DD DSN=SYS4.QSFILE,DISP=OLD

A data set that contains the quarterly sales data for Regions 1 and 2

//QREPORT DD SYSOUT=E

A data set that contains the report SYSOUT that is to be processed by the system for the report that contains control breaks

Step 1: Define a Job for U50500-R01

1. On the command line of the Primary Selection Menu panel, enter **J U50500.**

2. Press Enter to display the Reports for Job panel.

3. On the Reports for Job panel:

    a. Enter **QUARTERLY SALES** in the Desc field.

    b. Enter **QSALESTP** under Stepname.

    c. Enter **QREPORT** under DDname.

    d. Enter **U50500-R01** under Report ID.

    e. Enter **C** under Type.

```
CA Deliver ---------------- Reports for Job: U50500 -------- Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

 Desc    ===> QUARTERLY SALES
 Prevrun ===>

Sel Stepname Procstep DDname    Report ID                  Type  Prevrun
    QSALESTP          QREPORT   U50500-R01                 C



    ***************************** Bottom of Data ******************************

```

4. Press Enter to display the Report Definition Attributes panel.

Step 2: Specify Report Definition Attributes

1. On the Report Definition Attributes panel:

    a. Enter **REGIONS 1&2 SALES REPORT** in the Desc field.

        Any lowercase characters are automatically converted to uppercase.

    b. Enter **1** in the ARCH field to indicate that the report will be archived.

    c. Enter **23:59** in the LATE field.

        Note: You must specify 23:59 or 00:01 for midnight in the LATE field.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ==>

  ID     ---> U50500-R01                        Job    ---> U50500
  Step   ---> QSALESTP     Procstep --->         DD     ---> QREPORT
                                                 Type   ---> CNTL
  Desc    ==> REGIONS 1&2 SALES REPORT
  Arch ID ==>

Attributes:
  ARCH   ==> 1            BANNER ==>           BURST  ==>
  CC     ==>              CLASS  ==>           COPIES ==>
  FCB    ==>              FORM   ==>           FLASH  ==> (  ,   )
  LATE   ==> 23:59        OPTCDJ ==>           UCS    ==>
  FORMDF ==>              PAGEDF ==>           PRMODE ==>
  PRSET  ==>              PRTY   ==>           GRPID  ==>
  CHARS  ==> (     ,      ,     ,      )       MODIFY ==> (  ,  )
  COPYG  ==> (     ,     ,    ,    ,    ,     ,     ,    )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.       D - Distribution specifications.
     I - Special instructions.        T - Report identification text.
```

2. Press Enter to refresh the Report Definition Attributes panel.

3. Enter **D** on the command line on the Report Definition Attributes panel, and press Enter to display the Distribution Specifications subpanel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                          Scroll ===> PAGE

  ID     ---> U50500-R01                      Job    ---> U50500
  Step   ---> QSALESTP     Procstep --->      DD     ---> QREPORT
                                              Type   ---> CNTL
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID              Out Dest          Eformat   MTWTFSS




****************************** Bottom of Data ******************************
```

4. Enter the distribution identifier **D01VPRES** in the Distribution ID column to distribute a copy of the report to the Vice President of Sales.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                          Scroll ===> PAGE

  ID     ---> U50500-R01                      Job    ---> U50500
  Step   ---> QSALESTP     Procstep --->      DD     ---> QREPORT
                                              Type   ---> CNTL
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID              Out Dest          Eformat   MTWTFSS
        D01VPRES






****************************** Bottom of Data ******************************
```

5. Review the remaining fields on the Distribution Specifications subpanels and leave them blank to use the default settings.

6. Enter R (Repeat) on the first row in the Sel column, and press Enter to copy the line you just entered.

   This new line is used to create the instruction to distribute a copy of the report to the President.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

 ID     ---> U50500-R01                         Job    ---> U50500
 Step   ---> QSALESTP      Procstep --->        DD     ---> QREPORT
                                                Type   ---> CNTL
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID              Out Dest          Eformat   MTWTFSS
 R      D01VPRES




****************************** Bottom of Data ******************************
```

   The first line is copied once. Default settings appear in the fields you left blank..

7. In the new line, replace the second distribution identifier D01VPRES with **D01PRES**.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00011
Command ===>                                              Scroll ===> PAGE

 ID     ---> U50500-R01                         Job    ---> U50500
 Step   ---> QSALESTP      Procstep --->        DD     ---> QREPORT
                                                Type   ---> CNTL
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID              Out Dest          Eformat   MTWTFSS
        D01VPRES                     Y                           YYYYYYY
        D01PRES                      Y                           YYYYYYY




****************************** Bottom of Data ******************************
```

8. Enter I on the command line, and press Enter to display the Special Instructions subpanel.

9. Enter the special instructions **REGIONS 01 & 02 SALES REPORT-REVIEW IMMEDIATELY** below the Instruction field, and press Enter.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                                Scroll ===> PAGE

  ID    ---> U50500-R01                         Job    ---> U50500
  Step  ---> QSALESTP    Procstep --->          DD     ---> QREPORT
                                                Type   ---> CNTL
 Special Instructions:
Sel Instruction
    'REGIONS 01 & 02 SALES REPORT - REVIEW IMMEDIATELY'




******************************* Bottom of Data *******************************
```

Any lowercase characters are automatically converted to uppercase.

10. Enter END on the command line and press Enter.

11. Enter **T** on the command line, and press Enter.

    The Control Break Identification subpanel is displayed.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>

  ID    ---> U50500-R01                         Job    ---> U50500
  Step  ---> QSALESTP    Procstep --->          DD     ---> QREPORT
                                                Type   ---> CNTL

Control Break Identification:
  Line  :              Normalized: YES
  Col   :              Separator : SEPARATE
  Length:


User Field Identification:
          Line   Col   Length              Line   Col   Length
  Field 1:                        Field 2:
  Field 3:                        Field 4:
  Field 5:                        Field 6:
  Field 7:                        Field 8:
  Field 9:
```

You are now ready to enter the control break identification criteria.

Step 3: Specify Control Break Identification Criteria

1. Obtain a printout of the SYSOUT data set that contains the quarterly sales data you extract for the report.

2. Look for the best text to use to separate the pages in the data set.

   You determine that the region number in the title on each page in the data set is the best text to use. When 01 changes to 02 in the data set, a control break occurs and the system inserts a separator page in the report at that point.

3. Do the following on the Report Definition Attributes panel:

   a. Enter **2** in the Line field.

   b. Enter **8** in the Col field.

   c. Enter **2** in the Length field.

   d. Enter **2** in Field 1 under Line.

   e. Enter **1** in Field 1 under Col.

   f. Enter **9** in Field 1 under Length.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>


  ID     ---> U50500-R01                         Job     ---> U50500
  Step   ---> QSALESTP     Procstep --->          DD      ---> QREPORT
                                                  Type    ---> CNTL


Control Break Identification:
   Line  : 2               Normalized: YES
   Col   : 8               Separator : SEPARATE
   Length: 2


User Field Identification:
           Line   Col   Length                 Line   Col   Length
   Field 1:  2     1     9            Field 2:
   Field 3:                           Field 4:
   Field 5:                           Field 6:
   Field 7:                           Field 8:
   Field 9:
```

The defaults for the Normalized field (YES) and the Separator field (SEPARATE) are used.

4. Enter END on the command line, and press Enter to display the Report Definition Attributes panel.

   When you exit the Report Definition Attributes panel, the data you entered for report 1 is saved in the database.

The following illustration shows the reports processed by CA Deliver:

```
* END **************************************************************************** END *
* END ********        AMALGAMATED AMERICAN MANUFACTURING           ******** END *
   U50500 ************************ QUARTERLY SALES ************************* PAGE 06
   REGION 02                                                        DIVISION 02
      U50500 ************************ QUARTERLY SALES ************************* PAGE 05
      REGION 02                                                     DIVISION 02
         U50500 ************************ QUARTERLY SALES ************************* PAGE 04
         REGION 02                                                  DIVISION 02
   * SEPARATOR ************************************************************** START *
   * SEPARATOR ************************************************************** START *
      U50500 ************************ QUARTERLY SALES ************************* PAGE 03
      REGION 01                                                     DIVISION 01
         U50500 ************************ QUARTERLY SALES ************************* PAGE 02
         REGION 01                                                  DIVISION 01
            U50500 ************************ QUARTERLY SALES ********************** PAGE 01
            REGION 01                                               DIVISION 01
   * SEPARATOR ************************************************************** START *
   * SEPARATOR ************************************************************** START *
* START **************************************************************************** START *
* START ******        AMALGAMATED AMERICAN MANUFACTURING           ****** START *
* START ******        TEMPLE STREET FACILITY - LOS ANGELES, CA      ****** START *
* START **************************************************************************** START *
*   U    U  555555  0000  555555  0000   0000          RRRRR   0000     1       *
*   U    U  5       0   0 5       0    0   0   0        R    R 0    0    11      *
*   U    U  55555   0   0 55555   0    0   0   0 ------ RRRRR  0    0   1 1       *
*   U    U     5 0  0       5 0   0    0   0   0        R  R   0    0     1       *
*   U    U     5 0  0       5 0   0    0   0   0        R   R  0    0     1       *
*    UUUU   55555   0000  55555   0000  0000           R     R 0000 111111       *
**********************************************************************************
* REPORT ID: U50500-R01      DATE:  02/15/12                                     *
* JOBNAME:   U50500          TIME:  23:15:42                                     *
* JOBID:     JOB 1235        CLASS: E                                            *
**********************************************************************************
* SEND REPORTS TO:                                                              *
*    MS. MOLLY BLOOM                                                             *
*    DEPT. 01                                                                    *
**********************************************************************************
* SPECIAL INSTRUCTIONS                                                           *
*    REGIONS 01 & 02 SALES REPORT - REVIEW IMMEDIATELY                           *
*                                                                                *
*              * END **************************************************************************** END *
*              * END ********        AMALGAMATED AMERICAN MANUFACTURING           ******** END *
*                 U50500 ************************ QUARTERLY SALES ************************* PAGE 06
*                 REGION 02                                                     DIVISION 02
*                    U50500 ************************ QUARTERLY SALES ************************* PAGE 05
*                    REGION 02                                                  DIVISION 02
*                       U50500 ************************ QUARTERLY SALES ************************* PAGE 04
*                       REGION 02                                               DIVISION 02
* START ****       * SEPARATOR ************************************************************** START *
*                  * SEPARATOR ************************************************************** START *
*                    U50500 ************************ QUARTERLY SALES ************************* PAGE 03
*                    REGION 01                                                  DIVISION 01
*                       U50500 ************************ QUARTERLY SALES ************************* PAGE 02
*                       REGION 01                                               DIVISION 01
*                          U50500 ************************ QUARTERLY SALES ********************** PAGE 01
*                          REGION 01                                            DIVISION 01
   * SEPARATOR ************************************************************** START *
   * SEPARATOR ************************************************************** START *
* START **************************************************************************** START *
* START ******        AMALGAMATED AMERICAN MANUFACTURING           ****** START *
* START ******        TEMPLE STREET FACILITY - LOS ANGELES, CA      ****** START *
* START **************************************************************************** START *
*   U    U  555555  0000  555555  0000   0000          RRRRR   0000     1       *
*   U    U  5       0   0 5       0    0   0   0        R    R 0    0    11      *
*   U    U  55555   0   0 55555   0    0   0   0 ------ RRRRR  0    0   1 1       *
*   U    U     5 0  0       5 0   0    0   0   0        R  R   0    0     1       *
*   U    U     5 0  0       5 0   0    0   0   0        R   R  0    0     1       *
*    UUUU   55555   0000  55555   0000  0000           R     R 0000 111111       *
**********************************************************************************
* REPORT ID: U50500-R01      DATE:  02/15/12                                     *
* JOBNAME:   U50500          TIME:  23:15:42                                     *
* JOBID:     JOB 1235        CLASS: E                                            *
**********************************************************************************
* SEND REPORTS TO:                                                              *
*    MS. MARY SHELLEY                                                            *
*    DEPT. 01                                                                    *
**********************************************************************************
* SPECIAL INSTRUCTIONS                                                           *
*    REGIONS 01 & 02 SALES REPORT - REVIEW IMMEDIATELY                           *
*                                                                                *
*                                                                                *
*                                                                                *
*                                                                                *
*                                                                                *
*                                                                                *
*                                                                                *
*                                                                                *
*                                                                                *
*                                                                                *
* START ************************************************************************** START *
```

Step 4: Close Panels and Finish Your Work

This section describes how to return to the Primary Selection Menu.

1. On the command line of the Report Definition Attributes panel, enter **END** and press Enter.

    The report you defined is added to the database and the Reports for Job panel is displayed for the job.

```
CA Deliver --------------- Reports for Job: U50500 -------------- Report saved
Command ===>                                              Scroll ===> PAGE

 Desc   ===> QUARTERLY SALES
 Prevrun ===>

Sel Stepname Procstep DDname    Report ID                    Type  Prevrun
    QSALESTP          QREPORT   U50500-R01                   CNTL


****************************** Bottom of Data ******************************
```

2. Enter **END** on the command line and press Enter to display the Primary Selection Menu panel.

    The message U50500 SAVED is displayed in the short message area. The job is added to the database.

You are now ready to submit the job.

Chapter 9: Creating and Using Dynamic Identifiers for Reports and Distribution

This section explains how to define reports that can be identified and distributed using information that is dynamically acquired from report data. This section also includes information about how to do the following actions:

- Define dynamic reports

- Define variables that are used to pull data from report pages

- Define distribution specifications

- Specify bundles with dynamic reports

- List active dynamic reports

- List contents of a dynamic report

- Use CA View to display dynamic reports

This section contains the following topics:

What is a Dynamic Report

A dynamic report is a report definition that can use report data to create the Report name, Distribution name, or both. One dynamic report definition can be used to create hundreds or even thousands of unique reports. Using a dynamic report definition can replace the need to maintain hundreds or thousands of individual report definitions in the CA Deliver database.

How to Identify a Dynamic Report

Enter **DYNAM** as the value in the Type field to identify a report as dynamic. A dynamic report is defined using a fixed report definition name. The distribution specifications for the dynamic report identify the report and distribution names to be assigned to the page data.

Example

In the following example, TRJOB02-D01 and TRJOB02-D02 are fixed names for a dynamic report.

```
CA Deliver ---------------- Reports for Job: TRJOB02 ------------- Report saved
Command ===>                                            Scroll ===> PAGE

 Desc    ===> UPDATE ACCOUNTS PAYABLE
 Prevrun ===>

Sel Stepname Procstep DDname    Report ID                       Type  Prevrun
    UPDTSTEP          REPTS     TRJOB02-D01                     DYNAM
                                TRJOB02-D02                     DYNAM




***************************** Bottom of Data ******************************


```

Dynamic reports are similar to stacked reports. Multiple dynamic reports can be defined to a job. The DD statement, the JCL attribute overrides, report identification text, special instructions, and bundle specifications are the same.

However, the distribution specifications for a dynamic report are different. These specifications identify key information on a report page. They also help you to form a dynamic report, distribution name, or both for the page data. The report pages are distributed and printed under the dynamically generated report and distribution name. Archival copies are created for each uniquely generated report name.

Distribute Report Data

The distribution specification for a dynamic report determines how to distribute the report data.

Enter **D**, on the command line of the Report Definition Attributes panel, to navigate to the Distribution Specifications screen. You can now define the details of the dynamic report.

```
CA Deliver ------------- Report Definition Attributes -----------------------
Command ===> D

  ID     ---> TRJOB02-D01                        Job    ---> TRJOB02
  Step   ---> UPDTSTEP     Procstep --->          DD     ---> REPTS
                                                 Type   ---> DYNAM
  Desc    ==>

Attributes:
  ARCH   ===>            BANNER ===>            BURST  ===>
  CC     ===>            CLASS  ===>            COPIES ===>
  FCB    ===>            FORM   ===>            FLASH  ===> (  ,  )
  LATE   ===>            OPTCDJ ===>            UCS    ===>
  FORMDF ===>            PAGEDF ===>            PRMODE ===>
  PRSET  ===>            PRTY   ===>            GRPID  ===>
  CHARS  ===> (     ,      ,     ,      )       MODIFY ===> (  ,  )
  COPYG  ===> (     ,     ,     ,     ,     ,     ,     ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.      D - Distribution specifications.
     I - Special instructions.       T - Report identification text.
```

The combination of Variable and Distribution specifications provide the flexibility to use report data to generate report and distribution names.

```
CA Deliver ---------------- Report Definition Attributes (1)------- Report saved
Command ===>                                           Scroll ===> PAGE

  ID     ---> TRJOB02-D01                        Job    ---> TRJOB02
  Step   ---> UPDTSTEP     Procstep --->          DD     ---> REPTS
                                                 Type   ---> DYNAM
 Variable Specifications:
Sel Name     Line   Column Length
    REGION    2      8      2




 Distribution Specifications:                          Writer/  Days
Sel Type Report/Distribution ID        Out Dest       Eformat  MTWTFSS
    REPT QTRLY REG&REGION
    DIST REG&REGION                         Y                   YYYYYYY
```

Variable names identify the location of data in the report page. System variables are available for job-related information; for example, &JOB, &JID, &SYSID, &WRITER, &USERID, &DD, &DATE, &JULDATE, &WEEKDAY, &MONTH, &DAY, and &YEAR. For a description of the system variables, see Report Distribution Specifications Subpanel (DYNAM report) (see page 456) in the Appendix.

The Distribution Specifications combines variables and constants to build report and distribution names. The Type field identifies the name that is being defined. The Type field can be specified as REPT to define a report name or DIST to define the distribution name. A REPT entry must be defined first followed by the associated DIST entries for the report entry. Multiple DIST entries can be specified for a given report entry and multiple sets of REPT and DIST entries can also be specified.

The variable names in the REPT and DIST entries are resolved during distribution of the report. Leading and trailing blanks are removed from the variable data during construction of the name. If a variable is blank, a dot (".") is used as the default value. Define the final resolved dynamic distribution name to the CA Deliver database and it can reference an individual distribution identifier or a distribution list.

Defining multiple DIST entries for a given REPT entry is permitted. However, if these DIST entries resolved to the same distribution identifier or list name, the distribution attributes, that is, DEST, WRITER, and OUT, from the DIST entry that first determines the unique distribution identifier or list name is used. If you have different output requirements for the same distribution identifier, we recommend that you define these differences in a distribution list definition or in alternate dynamic report definitions as opposed to defining multiple DIST entries.

A printed copy is created for each unique combination of REPT and DIST type with OUT=Y.

An Archive copy is created for each unique REPT type. The Archive copy keeps track of the distribution names and associated pages.

Report Identification Text

Report identification text is a unique string of text. This text can be used to determine whether a page in SYSOUT is the beginning, end, or part of a segment. Report Identification text has the same effect with DYNAM reports as it does with stacked reports. The Report Identification text determines if a page of data is eligible for inclusion in the dynamic report.

Note: For more information about Report Identification text, see the chapters discussing Defining Stacked Reports.

Dynamic Reports Memory Usage

When defining dynamic reports, consider memory usage carefully. The processing of a dynamic report is done efficiently, but large reports with complex dynamic definition could end up using all available memory resulting in S878-10, S80A-10, or S40D-10 abends. When the number of reports generated by a dynamic report approaches several thousands of reports, the total memory usage can start to reach critical limits. You cannot avoid memory usage required by opened datasets.

The CA Deliver SARBUFCT parameter can dramatically impact the memory usage by dynamic reports. SARBUFCT determines the number of buffers allocated per dynamic report. A large number of buffers help improve performance for archiving reports to CA View. When tuning your system for Dynamic Report processing, a large or default (10) SARBUFCT value is not recommended.

When processing Dynamic Reports that can generate thousands of reports, SARBUFCT must be set to SARBUFCT=1. Our testing produced S80A-10 and S40D-10 abends, when using SARBUFCT=10 and attempting to generate 10,000 dynamic reports. Though your results can differ, SARBUFCT must be reset to SARBUFCT=1 when implementing large Dynamic Reports.

Maximum Number of Dynamic Reports per Deliver Report

For each dynamic report that is generated from a single Deliver report, the report sequence number is incremented by 1. The maximum number of dynamic reports originating from a single Deliver report definition is limited to 65535. When this number is exceeded, message SARPAM25 is displayed in the application job creating the report. The CA View standard backup task must be initiated, and, when complete, reply of 'R' to retry must be issued to the SARPAM25 message to allow the application job to complete. The successful backup and reply of 'R' causes the generation number to be incremented and the sequence number is reset to 1.

Note: For more information about SARPAM25, see the *CA View Message Guide*.

Space Calculations for Dynamic Report Processing

Each unique dynamic report identified by the REPT entry is archived directly to View. Each unique report allocates space in16 block increments. All the reports remain open and occupy those units of space until it is freed at the end of sysout data sets. For large amounts of dynamic reports to be processed, correct space must be allocated. The following formula can be used to estimate the space required in the database during the dynamic reports creation phase:

(16 * Number of Dynamic reports generated) / (blocks per track)

For example, if a job that generates 8000 dynamic reports is run and the standard block size of 3768 is used, then we would need 9847 tracks in the View database.

(16*8000) / 13 = 9847 (rounded)

Active Report List

The three Active Report List panels present information about active reports. Use the Active Report List panels to list the status of active reports.

The Active Report List panel also provides access to the dynamic reports. The dynamic reports are displayed using the fixed name that is defined to the report. Only the fixed names are tracked in the Deliver Checkpoint.

Enter the command **C** next to the dynamic report to use the Active Report List to access a list of dynamic reports.

How to Define a Dynamic Report

Important! Use a test database to follow this procedure so that you do not inadvertently change or lose data in your database. The system must be installed and running and the Primary Selection Menu panel displayed before you begin this section.

This scenario describes how an administrator defines a dynamic report.

The following graphic shows how to define a new report definition that uses the value DYNAM for the Type field. The scenario demonstrates the flexibility of dynamic reports and how they can simplify the CA Deliver definitions and maintenance.

How to Define a Dynamic Report
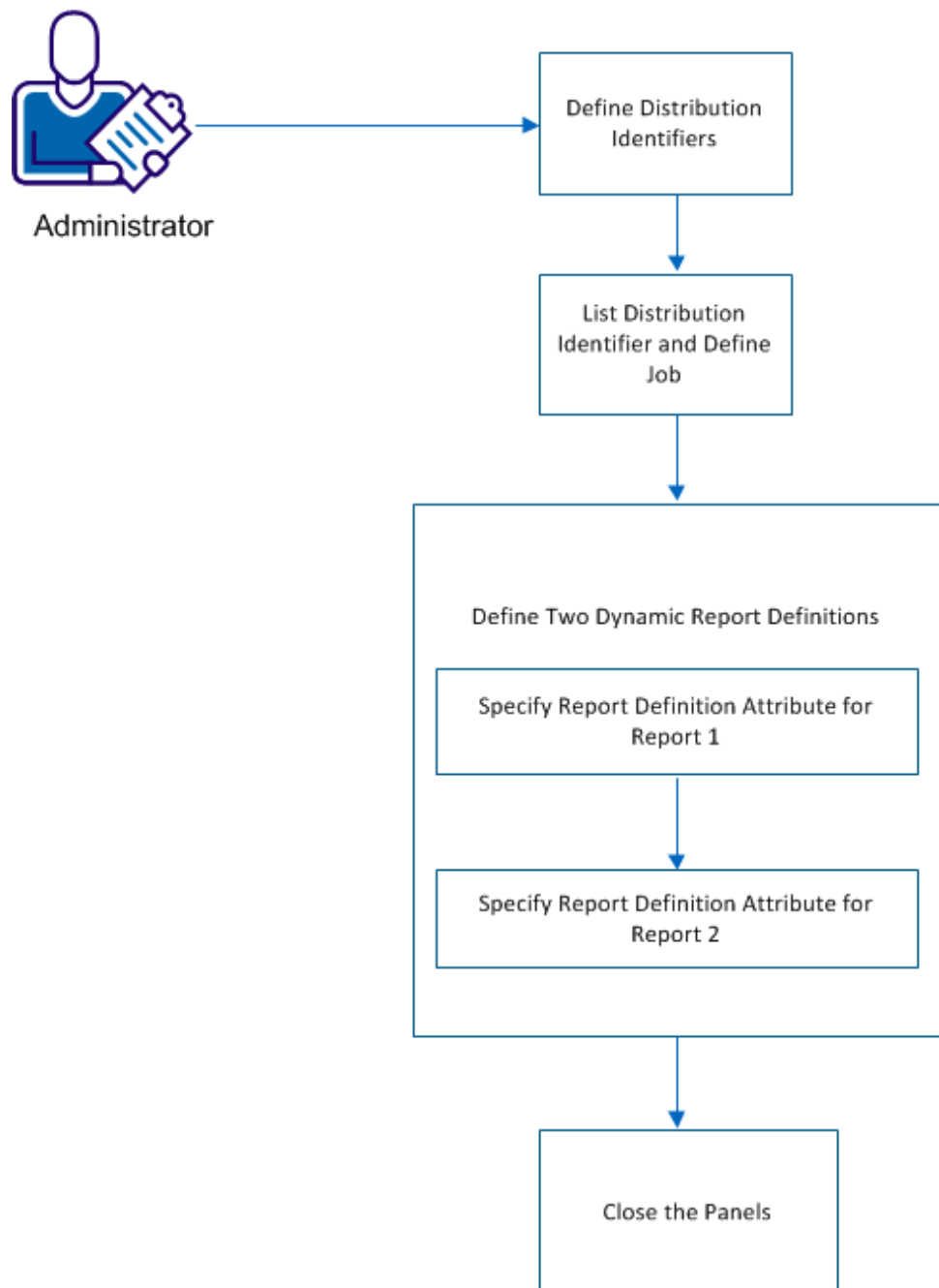
Note: Multiple dynamic reports can be nested within another dynamic report.

Follow these steps:

1. Define distribution identifiers (see page 211).

2. List distribution identifier for recipients of the report and define the job (see page 212).

3. Define two dynamic report definitions (see page 213).

4. Specify Report Definition Attributes for Report 1 (see page 216).

   Note: For steps 4 and 5, enter the report definition attributes that identify how to build the report ID and Distribution ID. Enter the report identification text to define the pages that are required for the report.

5. Specify Report Definition Attributes for Report 2 (see page 220).

6. Close the Panels (see page 223).

   Note: Any lowercase characters that are entered on the panels are automatically converted to uppercase.

Define Distribution Identifiers

Define distribution identifiers for the following designations:

■ Three sales managers

■ The Vice President

■ The President

Note:

■ These recipients are shown in the Classification Table section.

■ For information about how to define distribution identifiers, see the chapter Defining Basic Reports.
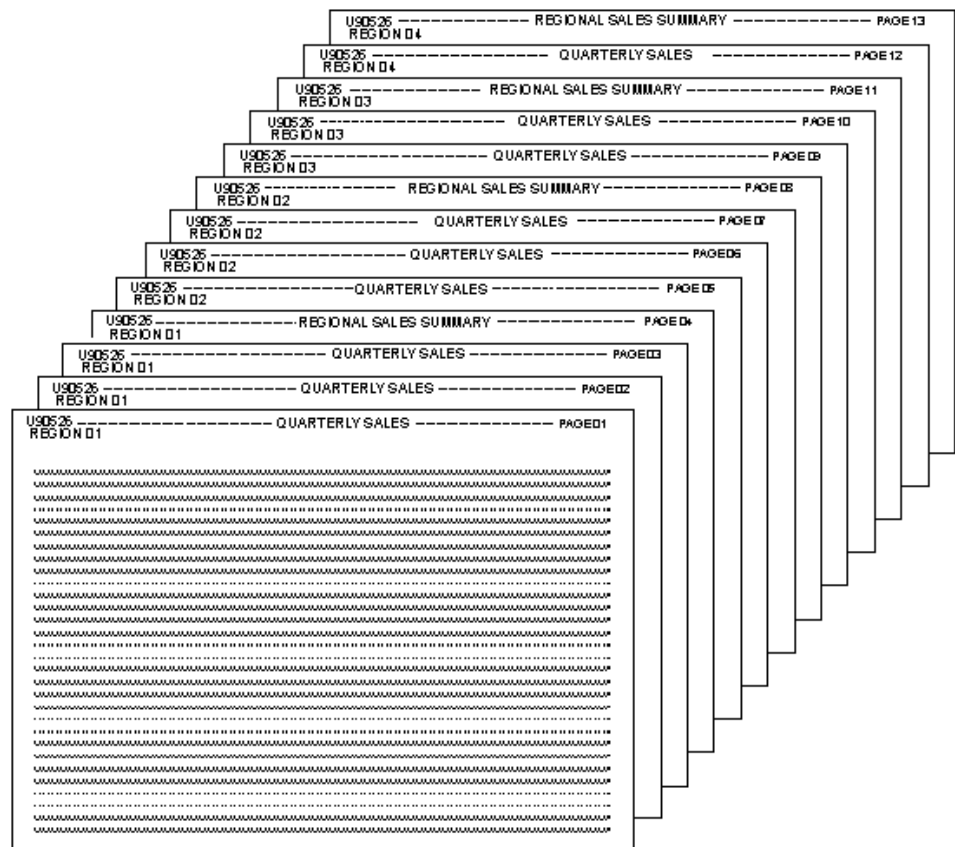
You are George Jones, an administrator of Amalgamated American Manufacturing. You are given the following report: This report is used in the previous scenario for stacked reports with overlapping segments. You can use the dynamic report definitions to process the report with the following options:

■ Create a unique report for each Quarterly Sales report by Region

■ Create a unique report with all Regional Sales Summary reports

■ Distribute the Quarterly Sales report to the region for which it was created

■ Distribute all Regional Sales Summary reports to each region

■ Distribute the Quarterly Sales and Regional Sales Summary to the Vice President and President of Sales

List Distribution Identifier and Define Job

You can enter the required information on various panels to list the distribution identifiers and define the job.

Follow these steps:

1. Enter **D D*** on the command line of the Primary Selection Menu panel and press Enter.

   The Distribution Selection List panel, which contains a complete list of distribution identifiers for regions, is displayed. This list is based on the scenario from Stacked reports with overlapping segments.

```
CA Deliver ------------ Distribution Selection List (1) -----------------------
Command ===>                                                Scroll ===> PAGE

Sel Distribution ID              Line 1                              List
===> D*                          *                                   *
    D01PRES                      PRESIDENT SALES
    D01VPRES                     VICE PRESIDENT OF SALES
    D30SMG01                     SALES MANAGER, REGION 01
    D30SMG02                     SALES MANAGER, REGION 02
    D30SMG03                     SALES MANAGER, REGION 03
    D30SMG04                     SALES MANAGER, REGION 04
****************************** Bottom of Data ******************************
```

2. Scan the list.

    The region level distribution is defined using a constant of D30SMG followed by the two-digit numeric region number. D30SMG04 is added to account for region 04.

3. Enter **RETURN** on the command line and press Enter to display the Primary Selection Menu panel.

4. Enter **J U90526A** on the command line and press Enter to display the Reports for Job panel.

5. Enter **QUARTERLY SALES AND SUMMARY** in the Description field.

Define Two Dynamic Report Definitions

You can enter the required information on the Reports for Job panel to define two dynamic report definitions.

Follow these steps:

1. Enter **J U90526A** and press Enter to display the Reports for Job panel on the command line of the Primary Selection Menu panel.

2. Enter **QUARTERLY SALES** in the Description field.

3. Enter the following information on the Reports for Job panel:

- *SALESTEP* under Stepname.

- *REPORTS* under DDname.

- *U90526A-D01* under Report ID.

- *DYNAM* under Type.

- *U90526A-D02* under Report ID on the third line.

- *DYNAM* under Type.

```
CA Deliver --------------- Reports for Job: U90526A ------- Row 00001 of 00010
Command ===>                                            Scroll ===> PAGE

 Desc    ===> QUARTERLY AND SUMMARY SALES REPORT
 Prevrun ===>

Sel Stepname Procstep DDname    Report ID                   Type  Prevrun
    SALESTEP          REPORTS   U90526A-D01                 DYNAM
                                U90526A-D02                 DYNAM




****************************** Bottom of Data ******************************


```

In this example, two new reports are added to job U90526A. A Report Definition Attributes panel is then displayed for each of the reports.

4. Press Enter to display the Report Definition Attributes panel for the first report.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>

  ID     ---> U90526A-D01                      Job    ---> U90526A
  Step   ---> SALESTEP     Procstep --->       DD     ---> REPORTS
                                               Type   ---> DYNAM
  Desc    ===>

Attributes:
  ARCH   ===>              BANNER ===>          BURST  ===>
  CC     ===>              CLASS  ===>          COPIES ===>
  FCB    ===>              FORM   ===>          FLASH  ===> (  ,   )
  LATE   ===>              OPTCDJ ===>          UCS    ===>
  FORMDF ===>              PAGEDF ===>          PRMODE ===>
  PRSET  ===>              PRTY   ===>          GRPID  ===>
  CHARS  ===> (     ,     ,     ,     )         MODIFY ===> (  ,  )
  COPYG  ===> (    ,    ,    ,    ,    ,    ,    ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.        D - Distribution specifications.
     I - Special instructions.         T - Report identification text.
```

You can now specify report definition attributes for both reports.

Specify Report Definition Attributes for Report 1

You can now specify report definition attributes for Report 1.

Follow these steps:

1. Enter the following information on the Report Definition Attributes panel:

   a. *QUARTERLY SALES* in the Description field.

   b. *1* in the ARCH field to archive the report.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>

  ID    ---> U90526A-D01                    Job    ---> U90526A
  Step  ---> SALESTEP    Procstep --->       DD     ---> REPORTS
                                             Type   ---> DYNAM
  Desc   ===> QUARTERLY SALES

Attributes:
  ARCH   ===> 1          BANNER ===>          BURST  ===>
  CC     ===>            CLASS  ===>          COPIES ===>
  FCB    ===>            FORM   ===>          FLASH  ===> (   ,   )
  LATE   ===>            OPTCDJ ===>          UCS    ===>
  FORMDF ===>            PAGEDF ===>          PRMODE ===>
  PRSET  ===>            PRTY   ===>          GRPID  ===>
  CHARS  ===> (     ,      ,     ,      )     MODIFY ===> (   ,   )
  COPYG  ===> (     ,     ,    ,    ,     ,     ,     ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.     D - Distribution specifications.
     I - Special instructions.      T - Report identification text.
```

2. Press Enter to refresh the Report Definition Attributes panel.

3. Enter **D** on the command line, and press Enter to display the Distribution Specifications subpanel.

    For report definitions with TYPE=DYNAM the following panel is displayed:

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                            Scroll ===> PAGE

  ID     ---> U90526A-D01                    Job     ---> U90526A
  Step   ---> SALESTEP     Procstep --->     DD      ---> REPORTS
                                             Type    ---> DYNAM

Variable Specifications:
Sel Name     Line  Column Length



 Distribution Specifications:                            Writer/   Days
Sel Type Report/Distribution ID          Out Dest       Eformat   MTWTFSS



```

4. Enter the variable specifications that define the region number and report fields as variables.

   – *REGION* under Name for the first variable.

   – *2* under Line to indicate the line in the page where variable data is found.

   – *8* under Column to indicate starting column of variable data. The line and column coordinates point to the region number.

   – *2* for length of variable data.

   – *RPTID* under Name for the second variable.

   – *1* under Line to indicate the line in the page where variable data is found.

   – *1* under Column to indicate starting column of variable data. The line and column coordinates point to a report ID.

   – *8* for length of variable data.

5. Enter Distribution Specifications that define the dynamic report ID and distribution ID using combinations of variables and constants.

   a. Enter the following information in the first line under Distribution Specifications:

      – *REPT* under Type to specify the structure of the dynamic report ID.

      – *&RPTID* to specify the contents of the &RPTID variable.

      – *–QTRLY-REG* to specify a constant.

      – *&REGION* to specify the contents of the &REGION variable. The previous three steps are concatenated to build REPT (removing leading and trailing blanks).

   b. Enter the following information in the second line under Distribution Specifications:

      – *DIST* under Type to specify the structure of the dynamic distribution ID.

      – *D30SMF* to specify the contents of fix portion of the distribution ID.

      – *&REGION* to specify the contents of the &REGION variable. The previous two steps are concatenated to build DIST (removing leading and trailing blanks).

6.   Retain default values in the remaining fields.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90526A-D01                      Job    ---> U90526A
  Step   ---> SALESTEP     Procstep --->       DD     ---> REPORTS
                                               Type   ---> DYNAM


Variable Specifications:
Sel Name     Line  Column Length
   REGION   2     8      2
   RPTID    1     1      8

 Distribution Specifications:                          Writer/   Days  Sel
Type Report/Distribution ID          Out Dest          Eformat  MTWTFSS


    REPT &RPTID-QTRLY-REG&REGION
    DIST D30SMF&REGION                      Y                    YYYYYYY


```

A unique report is created for every combination of region number and report ID.

7.   Enter **END** command to save definition and display the Report Definition Attributes panel.

8.   Enter **T** on the command line and press Enter to display the Report Identification Text subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90526A-D01                      Job    ---> U90526A
  Step   ---> SALESTEP     Procstep --->       DD     ---> REPORTS
                                               Type   ---> DYNAM
Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg   End   Text                       Cols 001 046
   XCL Y EQ 1         25          QUARTERLY



```

Report Identification Text is used to select only pages that have a heading of QUARTERLY. Only QUARTERLY SALES report pages are selected for this dynamic report. SUMMARY pages are not included.

9. Enter the following information:

    – *X* under Type.

    – *Y* under (R)euse column blank to allow the segment to be used again to select more pages.

    – *EQ* under Operation.

    – *1* under Line Beginning.

    – *25* under Column Beginning because the word QUARTERLY (the word you are searching for) starts in the 25th column.

    – *QUARTERLY* under Text.

    You can now define the report identification text for U90526A-D02 (report 2).

Specify Report Definition Attributes for Report 2

The first report contains the Quarterly Sales report. The second report contains all the Summary reports for all regions. Report 2 looks similar to the first but there is no need for unique reports by region. Also, we must ensure that only pages with SUMMARY are included in the report.

Follow these steps:

1. Enter the Select tabular command S on the row with U90526A-D02, in the Sel column and press Enter on the Reports for Job: U90526A panel.

    The Report Definition Attributes panel is displayed.

2. Enter the following information on the Report Definition Attributes panel:

    – *SUMMARY SALES REPORT* in the Description field.

    – *1* in the ARCH field to archive the report.

3. Press Enter to refresh the Report Definition Attributes panel.

4. Enter **D** on the command line, and press Enter to display the Distribution Specifications subpanel.

   For report definitions with TYPE=DYNAM the following panel is displayed:

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                            Scroll ===> PAGE

  ID    ---> U90526A-D02                     Job     ---> U90526A
  Step  ---> SALESTEP     Procstep --->      DD      ---> REPORTS
                                             Type    ---> DYNAM

Variable Specifications:
Sel Name     Line  Column Length




 Distribution Specifications:                            Writer/   Days
Sel Type Report/Distribution ID        Out Dest        Eformat  MTWTFSS



```

5. Enter the variable specifications that define the report field as a variable.

   – *RPTID* under Name for the first variable.

   – *1* under Line to indicate the line in the page where variable data is found.

   – *1* under Column to indicate starting column of variable data. The line and column coordinates point to a report ID.

   – *8* for length of variable data.

6. Enter Distribution Specifications that define the dynamic report ID and distribution ID using combinations of variables and constants.

   a. Enter the following information in the first line under Distribution Specifications:

      – *REPT* under Type to specify the structure of the dynamic report ID.

      – *&RPTID* to specify the contents of the &RPTID variable.

      – *-SUMMARY* to specify a constant. The two previous steps are concatenated to build REPT (removing leading and trailing blanks).

   b. Enter the following information in the second line under Distribution Specifications:

      – *DIST* under Type to specify the structure of the dynamic distribution ID.

      – *D01VPRES* to specify distribution of the report to the President.

7. Retain default values in the remaining fields.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ===>                                            Scroll ===> PAGE

   ID    ---> U90526A-D01                     Job    ---> U90526A
   Step  ---> SALESTEP      Procstep --->      DD     ---> REPORTS
                                               Type   ---> DYNAM
Variable Specifications:
Sel Name      Line  Column Length
    RPTID    1    1      8


 Distribution Specifications:                         Writer/   Days  Sel
Type Report/Distribution ID         Out Dest          Eformat   MTWTFSS
    REPT &RPTID-SUMMARY
    DIST D01PRES                        Y                      YYYYYYY

    DIST D01VPRES                       Y                      YYYYYYY
```

A unique report is created for every combination of RPTID.

8. Enter **END** command to save definition and display the Report Definition Attributes panel.

9. Enter **T** on the command line and press Enter to display the Report Identification Text subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
Command ===>                                            Scroll ===> PAGE

   ID    ---> U90526A-D02                     Job    ---> U90526A
   Step  ---> SALESTEP      Procstep --->      DD     ---> REPORTS
                                               Type   ---> DYNAM
Report Identification Text:
            Line      Column
Sel Typ R Op Beg End Beg  End   Text                         Cols 001 046
    XCL Y EQ 1   2   1    80    SUMMARY
```

Report Identification Text is used to select only pages that have a heading containing SUMMARY.

Note: Only SUMMARY SALES report pages are selected for this dynamic report. QUARTERLY pages are not included.

10. Enter the following information:

– *X* under Type.

– *Y* under (R)euse column blank to allow the segment to be used again to select more pages.

– *EQ* under Operation.

– *1* under Line Beginning.

– *1* under Line End.

– *1* under Column Beginning.

– *80* under Column End. Use a Box search to locate the Text anywhere on line 1.

– *SUMMARY* under Text.

Close the Panels

You can add the job to the database and close the panels.

Follow these steps:

1. Enter **END** on the command line and press Enter on the Report Definition Attributes panel.

    The report that you defined is added to the database and the Reports for Job panel is displayed for the job.

```
CA Deliver --------------- Reports for Job: U90526A ------- Row 00001 of 00010
Command ===>                                            Scroll ===> PAGE

 Desc    ===> QUARTERLY AND SUMMARY SALES REPORT
 Prevrun ===>

Sel Stepname Procstep DDname    Report ID                    Type  Prevrun
    SALESTEP          REPORTS   U90526A-D01                  DYNAM
                                U90526A-D02                  DYNAM




****************************** Bottom of Data *******************************


```

2. Enter **END** on the command line and press Enter to display the Primary Selection Menu panel.

    The message U90526A SAVED is displayed in the short message area and the job is added to the database.

    You can now run the job.

Submit the Job

You can now submit the job for CA Deliver to complete the following actions:

– Obtain the report output from the application program you specified in the JCL for the job.

– Separate the output into unique reports.

– Add a banner page to the front and end of each report.

– Print each report for distribution.

– Archive a version of each unique report name.

Note: The dynamic nature of the definition means that more regions can be added to the report and no changes are needed to the U90526A definition. This definition builds the report identifier using data from the report. You can modify the application to create a different version of the report and change the report data identifier. Again, no additional changes would be needed for U90526A.

Add Dynamic Distribution IDs to the CA Deliver Database

To enable EXP mode viewing of dynamic reports in CA View using dynamically generated Distribution IDs, make sure those Distribution IDs exist in your CA Deliver database. To help identify the dynamically created Distribution IDs, the SARBCH/LISTDYND utility can be run. The UNDEF option is available to list only those Distribution IDs that are not defined to the CA Deliver database. The Distribution IDs can be added to the CA Deliver database through the online panels or with the RMODBB utility.

Note: For more information about the SARBCH LISTDYND function, see the *CA View Reference Guide*.

How to Bundle Dynamic Reports

Dynamic reports can be defined to bundles using the Bundle specifications command. Enter **B** on the command line of the Report Definition Attributes panel.

Defining dynamic reports to a bundle is no different from a stacked report. The fixed name that is associated to the dynamic report is used to define the reports to a bundle.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>

  ID     ---> TRJOB02-D01                          Job     ---> TRJOB02
  Step   ---> UPDTSTEP     Procstep --->           DD      ---> REPTS
                                                   Type    ---> DYNAM
Bundle Specifications:
Sel  Bundle ID                      Description
     DIVISION01                     DIVISION 01, REGION 01-10
```

In addition to defining the fixed name of the dynamic report to the bundle, distribution identifiers for the dynamic report must also be added to the bundle. Dynamic reports can generate many different distribution names. These distribution names can be a unique distribution identifier or a distribution list that contains many distribution identifiers. Any of these distribution identifier names can be added in the bundle. For the dynamic report to be included in the printed bundle, the distribution identifier and distribution list must have OUT set to "Y". To simplify the process of identifying and adding dynamic distribution names to a bundle, wildcard names can be used.

When the bundle prints, the fixed name of the dynamic report that is defined in the bundle is replaced with the dynamically generated report name. If multiple report names are generated, each dynamic section is included in the bundle and sequenced by the report name.

Printed Output of a Dynamic Report

Print copies of a dynamic report can be generated individually or within a bundle. To generate a print copy of a dynamic report, the OUT field in the distribution specification DIST entry must be set to "Y". If the resolved distribution name from the DIST entry references a distribution list, the distribution identifier(s) within the distribution list that require printing must also have the OUT field specified as "Y".

Note: For further information about distribution list and overrides, see the chapter "Defining a Distribution List."

When print copies of a dynamic report are generated, the banner pages contain the dynamically generated report name from the report distribution specification REPT entry and be distributed to the recipients identified by the report distribution specification DIST entry. The pages that are printed for an individual recipient can vary dependent on whether the report is bundled, non-bundled, or reprinted from View. These differences are detailed as follows:

Print copies for non-bundled (individual) output are generated as follows:

- Printed copies are generated for each uniquely generated dynamic report name.

- All pages distributed directly or indirectly (through a distribution list) to a non-grouped distribution identifier with the same external writer and destination are printed together.

- All pages distributed to a group of distribution identifiers in a distribution list with the same names, the same sequence of names, and same external writer and destination for the first distribution identifier in the group are printed together.

- If a distribution identifier is specified multiple times within a distribution list, multiple print copies of the report are generated for the distribution identifier. These print copies include all pages distributed to the distribution identifier with the same external writer and destination.

Print copies for Deliver bundled output and View bundled output are generated as follows:

- Printed copies are generated for each uniquely generated dynamic report name.

- The dynamic report(s) are inserted into the bundle where the fixed report name (report definition name) is supplied in the Bundle Report Specifications. The dynamic reports are ordered sequentially by dynamic report name.

- All pages distributed directly or indirectly (through a distribution list) to a distribution identifier are printed together.

- Multiple copies of a dynamic report are only produced if the distribution identifier name is specified multiple times within the Bundle Distribution Specifications.

Print copies reprinted from View are generated as follows:

- In ALL and EXPO, the View reprint distribution specifications is a sorted list of distribution identifiers that directly or indirectly (through a distribution list) that received pages of the report. If the distribution lists contained grouped distribution identifiers, the grouping indicator is ignored.

  All pages distributed directly or indirectly to a distribution identifier are printed together. If a distribution identifier is added to the View reprint distribution specifications that were not part of the original distribution of the report, all pages are printed for that distribution identifier. If the EXPOPRV initialization parameter is set to YES and the reprint distribution specifications is not accessed, the report only prints to the user's distribution identifier.

- In EXP mode, all pages distributed directly or indirectly to the user's distribution identifier are printed. If the EXP or SAR command is issued on the View reprint panel, only pages distributed to the user's distribution identifier are printed.

Chapter 10: Creating a Bundle of Reports

This chapter provides instructions for creating a bundle of reports and includes information about how to:

- Define a bundle identifier, a bundle distribution identifier, and a bundle of reports

- Identify a continuation bundle, the parts of a bundle, bundle banner pages, and distribution banner pages

- Determine how and when initial and continuation bundles are produced based on information you provide on the Bundle Definition Attributes panel

- Specify bundle definition attributes, bundle distribution specifications, and bundle special instructions

- Identify reports that are to be included in a bundle for CA Deliver

- List and redisplay bundles

- Define and describe an external writer name

This section contains the following topics:

What Is a Bundle Identifier?

A *bundle identifier* is a unique string of characters from 1–32 characters long that identifies a bundle in the system.

Example

An example of a bundle identifier is SABUNDL2.

Rules for Defining Bundle Identifiers

Follow these rules when you define bundle identifiers:

- The bundle identifier can be from 1 to 32 characters long.

- The characters in the name can be letters, numbers, periods, national characters ($, #, @), percent signs (%), cent signs (¢), exclamation marks (!), slashes (/), underscores (_), or dashes (hyphen).

You cannot use a blank or any other special character in the identifier.

We recommend that you establish a convention for naming bundle identifiers to avoid inconsistency and confusion among the users.

Note: You can define a bundle identifier by using the online facility, as described later in this chapter, or by using the batch utility RMODBB which is described in the Reference Guide.

What Is a Bundle Distribution Identifier?

A *bundle distribution identifier*, or *BDIST*, is a unique string of 1 to 32 characters that indicates where a bundle of reports is to be distributed at your site.

You define bundle distribution identifiers the same way you define report distribution identifiers; you also use the same panels.

Example

An example of a bundle distribution identifier is MS21. MS21 is a mail stop location that is used in the scenario presented in this chapter.

At your site, you might want to use building numbers and mail addresses as bundle distribution identifiers.

Rules for Defining Bundle Distribution Identifiers

The rules for defining bundle distribution identifiers are the same as the rules for defining bundle identifiers:

- The bundle identifier can be from 1 to 32 characters long.

- The characters in the name can be letters, numbers, periods, national characters ($, #, @), percent signs (%), cent signs (¢), exclamation marks (!), slashes (/), underscores (_), or dashes (hyphen).

You cannot use a blank or any other special character in the identifier.

Note: You can use distribution identifiers as bundle distribution identifiers. Bundle distribution identifiers can also serve as a distribution point for one or more distribution identifiers that are located at the same delivery location.

We recommend that you establish a convention for naming bundle distribution identifiers to avoid inconsistency in the database and confusion among users.

What Is a Bundle of Reports?

A bundle of reports is a "package" of previously-defined CA Deliver reports. These reports are generated by one or more jobs that run at the same or different times in a cycle and are grouped together by the system.

You can specify that a bundle of reports is to be delivered to one or more distribution points at one location.

What Is a Continuation Bundle?

A continuation bundle is a bundle assembled from reports that are available when an interval of time (that you specified) elapses. Reports produced after the initial continuation bundle is assembled are included in subsequently-produced continuation bundles when the reports are ready to be printed.

You specify if and when continuation bundles are produced.

The system prints continuation bundles until all reports that you specify for inclusion in the bundle are either printed or placed in a "not produced" status.

Note: Subsequently produced continuation bundles retain the same bundle identifier as the original continuation bundle with which they are associated.

Parts of a Bundle

The system prints three kinds of banner pages in a bundle of reports:

■ Report banner pages

■ Distribution banner pages

■ Bundle banner pages

This illustration shows bundle SABUNDL2 (including the three kinds of banner pages), which you create in this scenario.
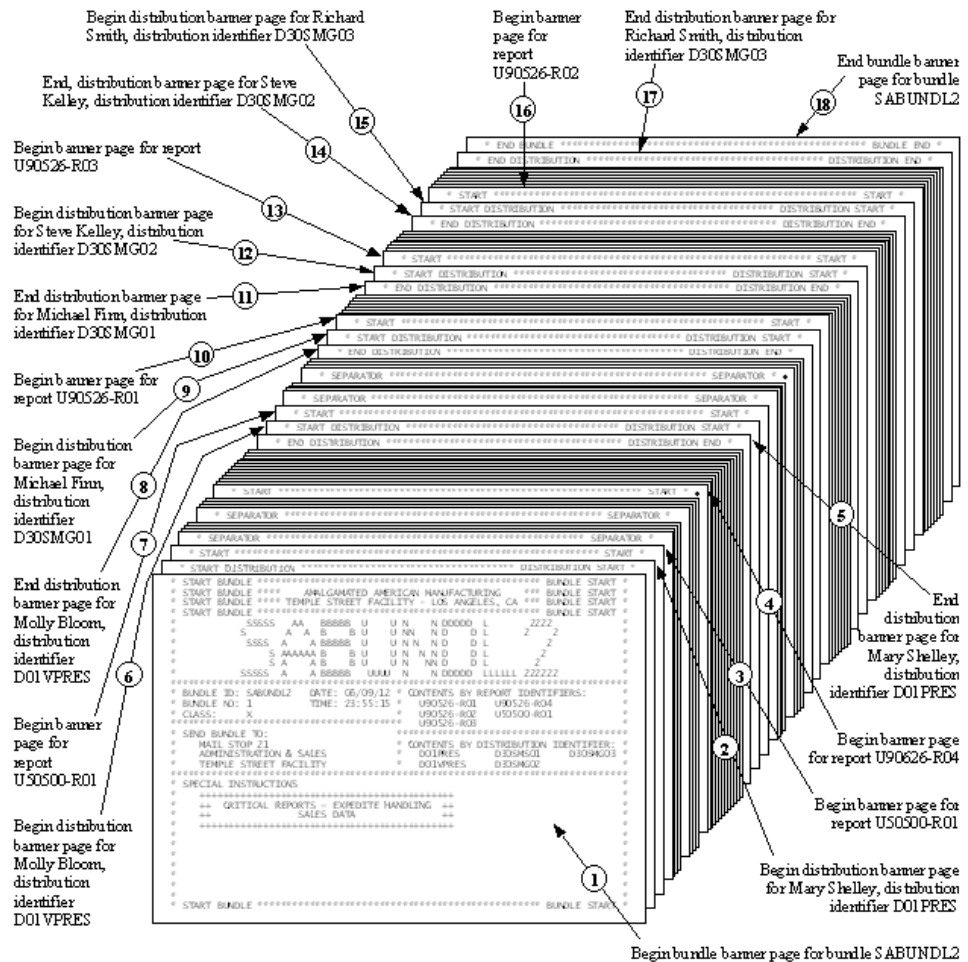
What Is a Bundle Banner Page?

A *bundle banner page* is a type of banner page in a bundle that identifies the beginning and end of a bundle of reports.

This illustration shows a beginning bundle banner page.

```
* START BUNDLE ******************************************** BUNDLE START *
* START BUNDLE ****    AMALGAMATED AMERICAN MANUFACTURING    *** BUNDLE START *
* START BUNDLE **** TEMPLE STREET FACILITY - LOS ANGELES, CA *** BUNDLE START *
* START BUNDLE ******************************************** BUNDLE START *
*         SSSSS   AA   BBBBB  U    U N    N DDDDD  L       2222         *
*        S       A  A  B    B B  U    U NN   N D    D L      2    2      *
*         SSSS  A    A BBBBB  U    U NN   N D    D L           2        *
*             S AAAAAA B    B  U    U N  N N D    D L          2         *
*            S A    A B    B  U    U N   NN D    D L          2          *
*         SSSSS A    A BBBBB   UUUU  N    N DDDDD  LLLLLL 222222        *
**********************************************************************
* BUNDLE ID: SABUNDL2   DATE: 08/16/12 * CONTENTS BY REPORT IDENTIFIERS:  *
* BUNDLE NO: 1          TIME: 23:55:15 *   U90526-R01   U90526-R04        *
* CLASS:    X                    *   U90526-R02   U50500-R01        *
************************************   U90526-R03                        *
* SEND BUNDLE TO:                      *************************************
*    MAIL STOP 21                      * CONTENTS BY DISTRIBUTION IDENTIFIER: *
*    ADMINISTRATION & SALES            *   D01PRES     D30SMG01    D30SMG03 *
*    TEMPLE STREET FACILITY            *   D01VPRES    D30SMG02        *
**********************************************************************
* SPECIAL INSTRUCTIONS                                                *
*    +++++++++++++++++++++++++++++++++++++++++++++                    *
*    ++  CRITICAL REPORTS - EXPEDITE HANDLING  ++                     *
*    ++            SALES DATA                ++                       *
*    +++++++++++++++++++++++++++++++++++++++++++++                    *
*                                                                     *
*                                                                     *
*                                                                     *
*                                                                     *
*                                                                     *
*                                                                     *
*                                                                     *
*                                                                     *
* START BUNDLE ************************************************ START BUNDLE *
```

Parts of a Bundle Banner Page

This list describes the fields on the bundle banner page.

BUNDLE ID

Bundle identifier for reports (SABUNDL2 in the previous example)

Specifies the name that identifies a bundle

BUNDLE NO

Number of the bundle

Identifies a bundle when a series of bundles is generated by a job

CLASS

SYSOUT class X to which the reports distributed to the Distid are written (class X in the previous example)

DATE

Date (08/16/12 in the previous example) when the bundle is queued for output processing

TIME

Time (23:55:15 in the previous example) when the bundle is queued for output processing

CONTENTS BY REPORT IDENTIFIERS

Reports that compose the bundle (U90526-R01, U90526-R02, U90526-R03, U90526-R04, and U50500-R01 in the previous example)

CONTENTS BY DISTRIBUTION IDENTIFIER

Distribution identifiers that compose the bundle (D01PRES,D01VPRES, D30SMG01, D30SMG02, and D30SMG03 in the previous example)

SPECIAL INSTRUCTIONS

Special instructions which provide additional information about the bundle of reports or tell report recipients what to do with the reports in the bundle

SEND BUNDLE TO

Location to which or person to whom the bundle is to be delivered (in words)

Note: You can modify banner pages to suit the requirements of your site. Techniques that you can use to modify model banner pages are described in the *Reference Guide*.

What Is a Distribution Banner Page?

A *distribution banner page* is a type of banner page that identifies the beginning and end of a group of reports to be delivered to a single distribution identifier.

This illustration shows a beginning distribution banner page.

```
* START DISTRIBUTION ********************************* DISTRIBUTION START *
* START DISTRIBUTION   AMALGAMATED AMERICAN MANUFACTURING  DISTRIBUTION START *
* START DISTRIBUTION   TEMPLE STREET FACILITY - LOS ANGELES DISTRIBUTION START *
* START DISTRIBUTION ********************************* DISTRIBUTION START *
*          DDDDDD   0000    1  V      V PPPPP  RRRRR  EEEEE  SSSSS         *
*          D      D 0     0 11  V      V P  P  R  R E      S               *
*          D      D 0     0  1  V      V PPPPP  RRRRR  EEEE   SSSS         *
*          D      D 0     0  1  V  V  P     R  R E           S            *
*          D      D 0     0  1    V V   P     R   R E           S          *
*          DDDDDD   0000  11111   V     P     R   R EEEEE SSSSS           *
*************************************************************************
* DIST ID: D01VPRES    DATE: 08/16/12                             *
* CLASS:   X           TIME: 23:55:15                             *
*************************************************************************
* DISTRIBUTE REPORTS TO:          * CONTENTS BY REPORT:            *
*   MS. MOLLY BLOOM               *   U50500-R01                   *
*   DEPT. 01                      *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
*                                 *                                *
* START DISTRIBUTION ********************************* START DISTRIBUTION *
```

Parts of a Distribution Banner Page

This list describes the fields on the distribution banner page.

DISTID

Distribution identifier for the reports

Indicates the person to whom or location to which a report is to be distributed (D01VPRES in the previous example)

CLASS

SYSOUT class to which the reports that are to be distributed to the DISTID are written (X in the previous example)

DATE

Date when the bundle is queued for output processing (08/16/12 in the previous example)

TIME

Time when the bundle is queued for output processing (23:55:15 in the previous example)

DISTRIBUTE REPORTS TO

Verbal description of the destination where the reports are to be delivered

This value can be a location or person.

CONTENTS BY REPORT

Report that is to be distributed to the DISTID

Note: You can modify banner pages to suit the unique requirements of your site. For more information, see the *Reference Guide*.

Determining When a Bundle Is Produced

The values you specify in the LATE, INTERVAL, WAIT, and WAIT for LATE fields on the Bundle Definition Attributes panel (described later in this chapter) interact with each other. This interaction determines how and when a bundle is produced as shown in this table.

LATE	INTERVAL	WAIT Int.	WAIT for Late	Initial Bundle is Produced When	Continuation Bundle is Produced When
None	>00:00	N	N	All active reports are either produced or in NPROD status INTERVAL expires (from the time the first report is created)	INTERVAL expires (from the time the last bundle is created)
None	>00:00	N	Y	All active reports are either produced or in NPROD status INTERVAL expires (from the time the first report is created))	INTERVAL expires (from the time the last bundle is created)
None	>00:00	Y	N	INTERVAL expires (from the time the first report is created)	INTERVAL expires (from the time the last bundle is created)
None	>00:00	Y	Y	INTERVAL expires (from the time the first report is created)	INTERVAL expires (from the time the last bundle is created)

LATE	INTERVAL	WAIT Int.	WAIT for Late	Initial Bundle is Produced When	Continuation Bundle is Produced When
Specified	>00:00	N	N	All active reports are either produced or the LATE time is reached **Important!** If the LATE time is later than BEGINDAY and the current time is earlier than BEGINDAY, the bundle is produced when any reports are ready!	INTERVAL expires (from the time the last bundle is created)
Specified	>00:00	N	Y	LATE time is reached **Important!** If the LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle is produced when any reports are ready!	INTERVAL expires (from the time the last bundle is created)
Specified	>00:00	Y	N	INTERVAL either expires or the LATE time is reached **Important!** If the LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle is produced when any reports are ready!	INTERVAL expires (from the time the last bundle is created)
Specified	>00:00	Y	Y	LATE time is reached **Important!** If the LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle is produced when any reports are ready!	INTERVAL expires (from the time the last bundle is created)
None	00:00	N	N	All active reports are either produced or in NPROD status	User issues a PRINT request **Note:** A PRINT request overrides all other criteria.
None	00:00	N	Y	All active reports are either produced or in NPROD status	User issues a PRINT request **Note:** A PRINT request overrides all other criteria.
None	00:00	Y	N	User issues a PRINT request **Note:** A PRINT request overrides all other criteria.	User issues a PRINT request **Note:** A PRINT request overrides all other criteria.

LATE	INTERVAL	WAIT Int.	WAIT for Late	Initial Bundle is Produced When	Continuation Bundle is Produced When
None	00:00	Y	Y	User issues PRINT request **Note:** A PRINT request overrides all other criteria.	User issues PRINT request **Note:** A PRINT request overrides all other criteria.
Specified	00:00	N	N	LATE time is reached **Important!** If the LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle is produced when any reports are ready!	User issues PRINT request **Note:** A PRINT request overrides all other criteria.
Specified	00:00	N	Y	LATE time is reached **Important!** If the LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle is produced when any reports are ready!	User issues a PRINT request **Note:** A PRINT request overrides all other criteria.
Specified	00:00	Y	N	LATE time is reached **Important!** If the LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle is produced when any reports are ready!	User issues a PRINT request **Note:** A PRINT request overrides all other criteria.
Specified	00:00	Y	Y	LATE time is reached **Important!** If the LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle is produced when any reports are ready!	User issues a PRINT request **Note:** A PRINT request overrides all other criteria.

It works this way: if you do not specify a late time, but you do specify 00:30 for the INTERVAL and Y for WAIT, the first bundle is queued for printing a half hour after the first report is created, even though all reports are not ready.

Thereafter, a continuation bundle is produced every half hour until all reports are created or placed in a "not produced" status.

Creating a Bundle of Reports

Important! Use a test database to follow this procedure so that you do not inadvertently change or lose data in your production database.

The system must be installed and running with the Primary Selection Menu panel displayed before you begin this section.

The following list is an overview of the steps you follow to create a bundle of reports:

Step 1: Specify Bundle Definition Attributes for APBUNDL1

Step 2: Specify Bundle Distribution Specifications for APBUNDL1

Step 3: Specify Bundle Special Instructions for APBUNDL1

Step 4: Identify Reports to Be Included in Bundle APBUNDL1

Step 5: List and Redisplay Bundle Identifiers

Step 6: Specify Bundle Definition Attributes for SABUNDL2

Step 7: Specify Bundle Distribution Specifications for SABUNDL2

Step 8: Specify Bundle Special Instructions for SABUNDL2

Step 9: Identify Reports to Be Included in Bundle SABUNDL2

How Is a Bundle of Reports Produced?

The system monitors the creation of bundles once you define them in the online facility. The system automatically scans the database for the reports you included in the bundle to determine if the reports were produced during the current interval.

As reports are created, they are held until all the reports that you specified were to be included in the bundle have either been created or placed in a special "not produced" status.

When all reports are created or placed in the "not produced" status, the bundle of reports is finally printed according to the parameter settings you specified when you defined the bundle and parameter settings for the product at your site.

Scenario

In this scenario, you are again George Jones, an employee of Amalgamated American Manufacturing. You are still a systems programmer working in Department 27. You work in Building A32 at the Temple Street facility.

Create Bundle APBUNDL1

The first bundle you will create is assigned bundle identifier APBUNDL1. This bundle contains three Accounts Payable reports. These stacked reports (which contain exclusive segments) were created in the chapter "Defining Stacked Reports That Contain Exclusive Segments." TRJOB02-R01 contains edited transactions; TRJOB02-R02 contains vendor financial history; and TRJOB02-R03 contains check register data.

APBUNDL1 is delivered to the Accounts Payable department at Amalgamated American Manufacturing, whose distribution identifier and bundle distribution identifier are D29AP.

Job Name	Report ID	Contents	Distribution	Dist ID
TRJOB02	TRJOB02-R01	Edited transactions	Accounts Payable	D29AP
	TRJOB02-R02	Vendor financial history	Accounts Payable	D29AP
	TRJOB02-R03	Check register data	Accounts Payable	D29AP

Note: In this example, because there is only one recipient of the bundle of reports, you can suppress printing the distribution banner pages in this bundle and use the distribution identifier as the bundle distribution identifier.

Create Bundle SABUNDL2

The second bundle presented in this chapter is assigned bundle identifier SABUNDL2. This bundle contains five sales reports. Four of these reports, which contain overlapping segments, were created in the chapter "Defining Stacked Reports That Contain Overlapping Segments." You created the other report, which contains control breaks, in the chapter "Defining Reports That Contain Control Breaks."

SABUNDL2 is delivered to members of the administration and sales department at Amalgamated American Manufacturing, whose distribution identifiers are D01PRES, D01VPRES, D30SMG01, D30SMG02, and D30SMG03, and whose unique bundle distribution identifier is MS21 (a mail stop).

Job Name	Report ID	Contents	Distribution	Dist ID
U90526	U90526-R01	Region 1 quarterly sales and all regional sales summary pages	Sales Manager, Region 1, Michael Finn	D30SMG01
	U90526-R02	Region 3 quarterly sales and all regional sales summary pages	Sales Manager, Region 3, Richard Smith	D30SMG03
	U90526-R03	Regions 2 and 4 quarterly sales and all regional sales summary pages	Sales Manager, Regions 2 and 4, Steve Kelley	D30SMG02
	U90526-R04	Complete sales reports for all regions	Vice President of Sales, Molly Bloom	D01VPRES (for online view only)
			President, Mary Shelley	D01PRES
U50500	U50500-R01	Regions 1 and 2 quarterly sales data	Vice President of Sales, Molly Bloom	D01VPRES
			President, Mary Shelley	D01PRES

The distribution of the reports in bundle SABUNDL2 is as follows:

■ Michael Finn, D30SMG01, gets report U90526-R01.

■ Steve Kelley, D30SMG02, gets report U90526-R03.

■ Richard Smith, D30SMG03, gets report U90526-R02.

■ Molly Bloom, D01VPRES, gets report U50500-R01.

   If you recall, Molly Bloom, Vice President of Sales, requested that her report U90526-R04 be produced for online viewing only; the report is not printed with the bundle.

   In the future, if Molly Bloom needs a hardcopy of the report, you must change the Distribution Specifications subpanel for the report and specify Y under Out. The report will then print with the bundle.

■ Mary Shelley, D01PRES, gets reports U50500-R01 and U90526-R04.

Step 1: Specify Bundle Definition Attributes for APBUNDL1

Now George Jones needs to create bundles of reports. In this section, you (as George) will create the first of two bundles, APBUNDL1.

You must define the jobs that generate the reports and the reports that will compose APBUNDL1 before creating the bundle in this section. As George Jones, you defined these reports in the chapter "Defining Stacked Reports That Contain Exclusive Segments."

1. On the command line of the Primary Selection Menu panel, enter **B**, a space, and the bundle identifier **APBUNDL1**.

```
CA Deliver - Primary Selection for DELIVER.SYSTEM1 ---------------------------
Command ===> B APBUNDL1

  A Active Display    - Display selection list of active reports or bundles.
  B Bundle Data       - Display bundle data.
  D Distribution Data - Display distribution data.
  J Job Data          - Display job data.
  R Report Data       - Display report data.

    Operands for A:
      B    - Display selection list of active bundles.
      R    - Display selection list of active reports (default).
      X    - Limit selection list to exceptions.
      PREV - Display selection list for previous cycle.

    Operand for B,D,J,R:
      Omit operand for complete selection list.
      Specify identifier to display data.
      Specify generic identifier for limited selection list.
      L    - For D only, display list of distribution lists.

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

2. Press Enter to display the Bundle Definition Attributes panel.

```
CA De=liver ------------- Bundle Definition Attributes ------------------------
Command ===>

  ID     ---> APBUNDL1
  Desc   ===>

Attributes:
  Banner   ===> (          ,          ,           )
  BDist    ===>
  Late     ===>                    Bundle Confirm?   ===>
  Interval ===>                    Wait (Int, Late)  ===> (   , N )

Job Statement Information:
  ===>
  ===>
  ===>
  ===>


The following attributes may be selected by entering the 1-character selection
code on the command line:
     D - Distribution specifications.
     I - Special instructions.
     R - Report specifications.
```

The following table describes the fields on the Bundle Definition Attributes panel.

Desc

Identifies a 1–40 character description of the bundle, which is displayed on the Bundle Selection List panel in the Description field (optional)

Banner

Specifies the name of the model bundle, distribution, and/or report banner page (in this order):

Blank - The default banner page

*   Suppress printing the banner page

BDist

Identifies the distribution identifier of the recipient of the bundle

The address line information will be printed on the bundle banner page. If omitted, the distribution identifier for the first distribution point in the bundle is used.

Bundle Confirm?

Indicates bundle printing confirmation as follows:

■   The bundle is not to be printed until you enter the P tabular command on the Active Bundle List panel

■   The P tabular command need not be entered to print the bundle

Blank - Use the BNDLCONF initialization parameter setting

Lat

Specifies the time of day (24-hour hh:mm format) when the bundle is to be created for printing even though all reports in the bundle are not created

Interval

Specifies the time interval in an hh:mm format when continuation bundles are to be created:

00:00 - Suppress the creation of continuation bundles

Blank - Use the default bundling interval specified by the BNDLINT initialization parameter.

Wait (Int)

Specifies the following:

■   The bundle will not print until its bundling interval has expired

■   The bundle need not wait for its bundling interval to expire if all the reports it needs are available for bundling

Blank - Use the default wait indicator

Wait (Late)

Specifies the following:

- The bundle will not print until its late time has expired

- The bundle need not wait for its late time to expire if all the reports it needs are available for bundling

Job Statement Information

Identifies the JOB statement (comprised of 1 to 4 card images) to be used to submit a batch job to create the bundle:

Blank - The bundle will be created directly by the bundle output task

1. Enter **ACCOUNTS PAYABLE REPORTS** in the Desc field.

```
CA Deliver ------------- Bundle Definition Attributes ------------------------
Command ==>

  ID     ---> APBUNDL1
  Desc   ==> ACCOUNTS PAYABLE REPORTS

Attributes:
  Banner  ==> (          ,          ,          )
  BDist   ==>
  Late    ==>                  Bundle Confirm?  ==>
  Interval ==>                 Wait (Int, Late) ==> (   , N )

Job Statement Information:
   ==>
   ==>
   ==>
   ==>


The following attributes may be selected by entering the 1-character selection
code on the command line:
     D - Distribution specifications.
     I - Special instructions.
     R - Report specifications.
```

2. Enter an asterisk in the second Banner field (between the first and second commas) to specify that you want to suppress the printing of the distribution banner pages, since there is only one distribution identifier in the bundle (Accounts Payable, D29AP).

Leave the first and third Banner fields blank to use the default bundle and report banner pages.

```
CA Deliver ------------ Bundle Definition Attributes ------------------------
Command ==>

  ID     ---> APBUNDL1
  Desc   ==> ACCOUNTS PAYABLE REPORTS

Attributes:
  Banner  ==> (         , *       ,          )
  BDist   ==>
  Late    ==>                   Bundle Confirm?  ==>
  Interval ==>                  Wait (Int, Late) ==> (   , N )

Job Statement Information:
  ==>
  ==>
  ==>
  ==>

The following attributes may be selected by entering the 1-character selection
code on the command line:
     D - Distribution specifications.
     I - Special instructions.
     R - Report specifications.
```

3. Enter the bundle distribution identifier **D29AP** in the BDist field.

In this case, entering the distribution identifier D29AP in the BDist field is optional. If you leave the BDist field blank, the system, by default, uses the report distribution identifier for the first distribution point in the bundle as the BDist.

4.   Enter **11:59** in the Late field.

```
CA Deliver ------------- Bundle Definition Attributes ------------------------
Command ==>

  ID     ---> APBUNDL1
  Desc   ==> ACCOUNTS PAYABLE REPORTS

Attributes:
  Banner   ==> (            , *         ,            )
  BDist    ==> D29AP
  Late     ==> 11:59              Bundle Confirm?   ==>
  Interval ==>                    Wait (Int, Late)  ==> (   , N )

Job Statement Information:
   ==>
   ==>
   ==>
   ==>

The following attributes may be selected by entering the 1-character selection
code on the command line:
     D - Distribution specifications.
     I - Special instructions.
     R - Report specifications.
```

5.   Enter **00:30** in the Interval field.

```
CA Deliver ------------- Bundle Definition Attributes ------------------------
Command ==>

  ID     ---> APBUNDL1
  Desc   ==> ACCOUNTS PAYABLE REPORTS

Attributes:
  Banner   ==> (            , *         ,            )
  BDist    ==> D29AP
  Late     ==> 11:59              Bundle Confirm?   ==>
  Interval ==> 00:30              Wait (Int, Late)  ==> (   , N )

Job Statement Information:
   ==>
   ==>
   ==>
   ==>

The following attributes may be selected by entering the 1-character selection
code on the command line:
     D - Distribution specifications.
     I - Special instructions.
     R - Report specifications.
```

If you enter 00:30 here and set Wait to N (in the next step), the system prints a
continuation bundle every 30 minutes, starting from the time when the first report
was created.

6. Enter **N** in the Bundle Confirm? field.

7. Enter **N** in the Wait field.

    A table that summarizes the conditions under which initial and continuation bundles are produced, based on the information you provide in the Late, Interval, and Wait fields, is presented later in this chapter.

8. Enter the job control statement shown in the following illustration on the first row of the Job Statement Information field, and press Enter to refresh the Bundle Definition Attributes panel.

```
CA Deliver ------------- Bundle Definition Attributes ------------------------
Command ===>

  ID     ---> APBUNDL1
  Desc   ==> ACCOUNTS PAYABLE REPORTS

Attributes:
  Banner   ==> (           , *         ,            )
  BDist    ==> D29AP
  Late     ==> 11:59            Bundle Confirm?   ==> N
  Interval ==> 00:30            Wait (Int, Late)  ==> ( N , N )

Job Statement Information:
  ==> //APBUN1 JOB 'D01-561-01','PROD BUNDLE',CLASS=P
  ==>
  ==>
  ==>

The following attributes may be selected by entering the 1-character selection
code on the command line:
     D - Distribution specifications.
     I - Special instructions.
     R - Report specifications.
```

Any lowercase characters are automatically converted to uppercase.

Note: You might want to create a skeleton JOB statement for your site that you can use for bundles so that you do not need to constantly re-enter job control statements every time you create a bundle. Be sure to follow the standards for your site when you create job control statements.

Step 2: Specify Bundle Distribution Specifications for APBUNDL1

1. Enter **D** on the command line of the Bundle Definition Attributes panel, and press Enter to display the Bundle Distribution Specifications subpanel.

```
CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00010
Command ===>                                                  Scroll ===> PAGE

    ID    ---> APBUNDL1

 Distribution Specifications:
Sel  Distribution ID              Address Line 1







****************************** Bottom of Data ******************************
```

1. Enter the distribution identifier for the Accounts Payable Department, **D29AP** under Distribution ID, and press Enter.

```
CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00010
Command ===>                                                  Scroll ===> PAGE

    ID    ---> APBUNDL1

 Distribution Specifications:
Sel  Distribution ID              Address Line 1
     D29AP






****************************** Bottom of Data ******************************
```

1. Enter END on the command line, and press Enter.

Step 3: Specify Bundle Special Instructions for APBUNDL1

1. On the command line of the Bundle Distribution Specifications subpanel, enter **I**, and press Enter to display the Bundle Special Instructions subpanel.

2. Enter **CRITICAL REPORTS - EXPEDITE HANDLING ACCOUNTS PAYABLE DATA** under Instruction. (Optionally, you can use the + key to outline this information.)

```
CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00010
Command ===>                                           Scroll ===> PAGE

   ID     ---> APBUNDL1

 Special Instructions:
Sel Instruction
    ++++++++++++++++++++++++++++++++++++++++++++
    ++  CRITICAL REPORTS - EXPEDITE HANDLING  ++
    ++          ACCOUNTS PAYABLE DATA         ++
    ++++++++++++++++++++++++++++++++++++++++++++




    ****************************** Bottom of Data ******************************
```

1. Enter **R** on the command line of the Bundle Special Instructions subpanel, and press Enter to display the Report Specifications subpanel.

```
 CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00010
 Command ===>                                          Scroll ===> PAGE

   ID     ---> APBUNDL1

 Report Specifications:
Sel  Report ID                    Description






    ****************************** Bottom of Data ******************************
```

Step 4: Identify Reports to Be Included in Bundle APBUNDL1

1. On the Bundle Definition Attributes panel, enter the following report identifiers under Report ID, and press Enter:

   - TRJOB01-R01

   - TRJOB01-R02

   - TRJOB01-R03

```
  CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00010
  Command ===>                                              Scroll ===> PAGE

    ID      ---> APBUNDL1

  Report Specifications:
 Sel  Report ID                    Description
      TRJOB02-R01
      TRJOB02-R02
      TRJOB02-R03




  ***************************** Bottom of Data ******************************
```

1. Enter **END** on the command line, and press Enter to display the Bundle Definition
    Attributes panel.

2. Enter **END** on the command line, and press Enter to save the data you entered for
    bundle 1 in the database and return to the Primary Selection Menu.

You are now ready to define bundle SABUNDL2.

Example of Bundle APBUNDL1

When output by CA Deliver, APBUNDL1 looks like this:
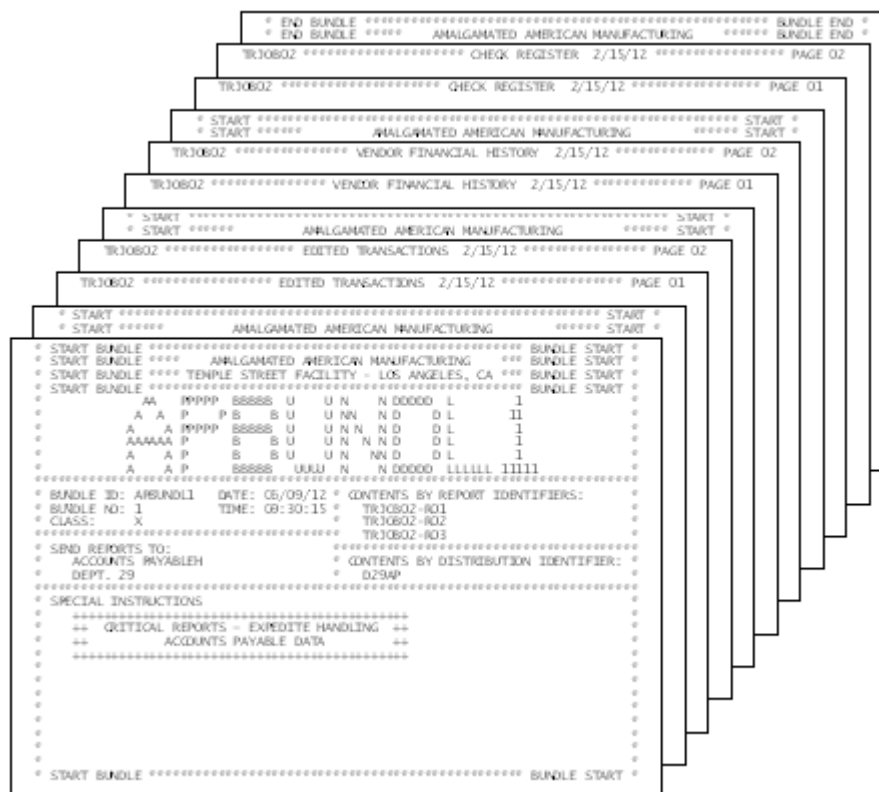
Step 5: List and Redisplay Bundle Identifiers

You can issue the redisplay input command REDISP three ways:

- Enter REDISP on the command line.

- Press the Enter key.

- Press the PF key to which you assign REDISP.

REDISP can be assigned to the Enter key in *one* of two ways:

- You can temporarily assign REDISP to the Enter key for use on selection lists during your current session by setting a parameter on the command line.

- The person who is responsible for installing and maintaining the product at your site can permanently assign REDISP to the Enter key by setting an initialization parameter.

Use this list to determine how you want to assign the REDISP to the Enter key.

Temporarily assign REDISP to the Enter key

Refreshes the display with new items activated since you last displayed the list

Enter REDISP ON on the command line of one of the following panels, and press Enter:

- Active Bundle List panel
- Active Report List panel
- Active Report List for Bundle panel

Permanently assign REDISP to the Enter key

See the person responsible for installing the product at your site to set the initialization parameter REDISP=YES.

Temporarily turn off the assignment of REDISP to the Enter key

During the current session, you must enter REDISP on the command line or use a PF key, if set, to refresh a selection list.

Enter REDISP OFF on the command line of one of the following panels, and press Enter:

- Active Bundle List panel
- Active Report List panel
- Active Report List for Bundle panel

Assign the Redisplay Input Command to a PF Key

Assigning the REDISP input command to a PF key saves you time because you need not reenter the REDISP command each time you want to redisplay bundle identifiers.

1. On the command line of the Primary Selection Menu panel, enter the system-wide command *KEYS*, and press Enter to display the PF Key Definitions panel.

```
CA Deliver - PF Key Definitions - Primary Keys --------------------------------
Command ===>

Number of PF Keys ===> 24

PF 1 ===> HELP
PF 2 ===>
PF 3 ===> END
PF 4 ===> RETURN
PF 5 ===> RFIND
PF 6 ===>
PF 7 ===> UP
PF 8 ===> DOWN
PF 9 ===> SWAP
PF10 ===> LEFT
PF11 ===> RIGHT
PF12 ===> CURSOR

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

1. Enter *REDISP* in the PF2 field.

```
CA Deliver - PF Key Definitions - Primary Keys --------------------------------
Command ===>

Number of PF Keys ===> 24

PF 1 ===> HELP
PF 2 ===> REDISP
PF 3 ===> END
PF 4 ===> RETURN
PF 5 ===> RFIND
PF 6 ===>
PF 7 ===> UP
PF 8 ===> DOWN
PF 9 ===> SWAP
PF10 ===> LEFT
PF11 ===> RIGHT
PF12 ===> CURSOR

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

1. Press Enter to display PF keys 13 through 24 and enter *REDISP* in the PF14 field.

```
CA Deliver - PF Key Definitions - Alternate Keys ------------------------------
Command ===>
Number of PF Keys ===> 24

NOTE: The definitions below apply only to terminals with 24 PF keys.

PF13 ===> HELP
PF14 ===> REDISP
PF15 ===> END
PF16 ===> RETURN
PF17 ===> RFIND
PF18 ===>
PF19 ===> UP
PF20 ===> DOWN
PF21 ===> SWAP
PF22 ===> LEFT
PF23 ===> RIGHT
PF24 ===> RETRIEVE

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

1. Press PF3 or PF15 to display the Primary Selection Menu panel.

You have assigned the input command REDISP to PF2 and PF14.

List and Redisplay Bundle Identifiers

1. On the command line of the Primary Selection Menu panel, enter **B**, and press Enter to display the Bundle Selection List panel, which contains a complete list of bundle identifiers, modification information, and bundle descriptions.

```
CA Deliver --------------- Bundle Selection List (1) --------------------------
Command ===>                                               Scroll ===> PAGE

Sel Bundle ID                      Description
==> *                              *
    APBUNDL1                       ACCOUNTS PAYABLE REPORTS
    D902344                        DELIVERABLES - NORTH SITE CENTRAL AVE
    D902354                        DELIVERABLES - SOUTH SITE BROADWAY BLVD
    D902457                        DELIVERABLES - IN HOUSE
    D903125                        CASH - WEST SITE
    D90415                         CASH - IN HOUSE
    D904564                        DELIVERABLES - WEST SITE
    D90514                         CASH - NORTH SITE CENTRAL AVE
    D90543                         CASH - SOUTH SITE BROADWAY BLVD
    D905465                        CUSTOMERS - IN HOUSE
    D90563                         CASH - EAST SITE
    D90675                         CASH - WAREHOUSE
    D907869                        DELIVERABLES - EAST SITE
    FINANCIAL_BUNDLE 01            FINANCIAL DATA
    FINANCIAL_BUNDLE 02_SUMMARIES  FINANCIAL SUMMARIES
    GJONESBNDL                     TESTING DESCRIPTION
    XBNDL004                       CHECKING - IN HOUSE
    XBNDL005                       CHECKING - NORTH SITE CENTRAL AVE
    XBNDL006                       CHECKING - SOUTH SITE BROADWAY BLVD
```

You may toggle between panels using the system-wide commands LEFT and RIGHT or using the PF keys.

1. Scan the list for the bundle identifier APBUNDL1, which you defined in the previous section.

   You discover that APBUNDL1 is the first entry on the Bundle Selection List panel.

2. Press PF4 or PF16 to display the Primary Selection Menu panel.

3. On the command line, enter **A**, space, **B**, and press Enter to display the Active Bundle List (1) panel.

```
CA Deliver - Active Bundle List (1) -------------------------------------------
Command ===>                                              Scroll ===> PAGE

                                        Remaining
Sel Bundle ID                           Intvl Time  Wait  Status    Excpt
==> *                                   *           *     *         *
    APBUNDL1                            00:00              OPEN
    D902344                             00:00
    D902354                             00:00
    D902457                             00:00
    D903125                             00:00
    D90415                              00:00
    D904564                             00:00
    D90514                              00:00
    D90543                              00:00
    D905465                             00:00
    D90563                              00:00
    D90675                              00:00
    D907869                             00:00
    FINANCIAL_BUNDLE 01                 00:00              QUEUED    INCMP
    FINANCIAL_BUNDLE 02_SUMMARIES       00:00              BNDLWAIT
    GJONESBNDL                          00:00
    XBNDL004                            00:00              QUEUED
    XBNDL005                            00:00              QUEUED    INCMP
    XBNDL006                            00:00              PRT REQ
```

Note: Only bundles are listed that contain reports that are pre-activated with the RMORAP utility, activated dynamically, or activated with a line command; RMORAP is described in the *Reference Guide*.

1. Press Enter (the key to which you previously set REDISP) to display the bundles activated since you last displayed the list.

2. Press PF4 or PF16 to display the Primary Selection Menu panel.

Step 6: Specify Bundle Definition Attributes for SABUNDL2

1. On the command line of the Primary Selection Menu, enter **B**, a space, and the bundle identifier **SABUNDL2**, and press Enter to display the Bundle Definition Attributes panel.

```
CA Deliver - Primary Selection for DELIVER.SYSTEM1 ---------------------------
Command ===> B SABUNDL2

  A Active Display    - Display selection list of active reports or bundles.
  B Bundle Data       - Display bundle data.
  D Distribution Data - Display distribution data.
  J Job Data          - Display job data.
  R Report Data       - Display report data.

    Operands for A:
      B    - Display selection list of active bundles.
      R    - Display selection list of active reports (default).
      X    - Limit selection list to exceptions.
      PREV - Display selection list for previous cycle.

    Operand for B,D,J,R:
      Omit operand for complete selection list.
      Specify identifier to display data.
      Specify generic identifier for limited selection list.
      L    - For D only, display list of distribution lists.

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

1. Do the following on the Bundle Definition Attributes panel:

    a. Enter **SALES DATA REPORTS** in the Desc field.

    b. Enter **MS21** in the BDist field.

    c. Enter **23:59** in the Late field.

    d. Enter **00:30** in the Interval field.

    e. Enter **N** in the Bundle Confirm? field.

    f. Enter **N** in the Wait field.

    g. Enter //SABUN2 JOB 'D29-561-02','PROD BUNDLE',CLASS=P under Job
        Statement Information.

```
CA Deliver ------------- Bundle Definition Attributes ------------------------
Command ===>

  ID     ---> SABUNDL2
  Desc   ===> SALES DATA REPORTS

Attributes:
  Banner   ===> (          , *        ,          )
  BDist    ===> MS21
  Late     ===> 23:59          Bundle Confirm?   ===> N
  Interval ===> 00:30          Wait (Int, Late) ===> ( N , N )

Job Statement Information:
  ===> //SABUND2 JOB 'D29-561-02','PROD BUNDLE',CLASS=P
  ===>
  ===>
  ===>

The following attributes may be selected by entering the 1-character selection
code on the command line:
     D - Distribution specifications.
     I - Special instructions.
     R - Report specifications.
```

Step 7: Specify Bundle Distribution Specifications for SABUNDL2

1. On the command line of the Bundle Definition Attributes panel, enter **D**, and press
    Enter to display the Bundle Distribution Specifications subpanel.

```
CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

   ID     ---> SABUNDL2

 Distribution Specifications:
Sel  Distribution ID                Address Line 1




****************************** Bottom of Data ******************************
```

1. Enter the following distribution identifiers under Distribution ID, and press Enter:

   ■ D01PRES

   ■ D01VPRES

   ■ D30SMG01

   ■ D30SMG02

   ■ D30SMG03

```
CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

   ID     ---> SABUNDL2

 Distribution Specifications:
Sel  Distribution ID              Address Line 1
     D01PRES
     D01VPRES
     D30SMG01
     D30SMG02
     D30SMG03




****************************** Bottom of Data ******************************
```

Step 8: Specify Bundle Special Instructions for SABUNDL2

1. On the command line of the Bundle Distribution Specifications subpanel, enter **I**, and press Enter to display the Bundle Special Instructions subpanel.

2. Enter **CRITICAL REPORTS - EXPEDITE HANDLING SALES DATA** under the Instruction field.

```
CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

   ID     ---> SABUNDL2

 Special Instructions:
Sel Instruction
     +++++++++++++++++++++++++++++++++++++++++++
     ++  CRITICAL REPORTS - EXPEDITE HANDLING  ++
     ++             SALES DATA                 ++
     +++++++++++++++++++++++++++++++++++++++++++




 ***************************** Bottom of Data *****************************
```

1. Enter **END** on the command line, and press Enter.

Step 9: Identify Reports to Be Included in Bundle SABUNDL2

1. On the command line of the Bundle Special Instructions subpanel, enter **R**, and press Enter to display the Report Specifications subpanel.

2. Enter the following report identifiers under Report ID, and press Enter:

- U90526-R01

- U90526-R02

- U90526-R03

- U90526-R04

- U50500-R01

```
CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00010
Command ===>                                            Scroll ===> PAGE

   ID     ---> SABUNDL2

 Report Specifications:
Sel  Report ID                      Description
     U90526-R01
     U90526-R02
     U90526-R03
     U90526-R04
     U50500-R01




 ***************************** Bottom of Data *******************************
```

1. Enter **END** on the command line, and press Enter to display the Bundle Definition Attributes panel.

2. Enter **END** on the command line, and press Enter to save the data for bundle 2 in the database and return to the Primary Selection Menu.

You are now finished defining bundles.

Example of Bundle SABUNDL2

When output by CA Deliver, SABUNDL2 looks like this:

External Writer Name

An *external writer* is an MVS routine that directs SYSOUT (system output) to magnetic tape devices and data sets and other devices that are not supported by the Job Entry Subsystem (JES).

An *external writer name* is the name assigned to the process associated with the allocation of job entry subsystem data sets. This process makes the job entry subsystem data sets available for processing by the external writer.

Syntax

RM*xnnnnn*

The syntax elements of an external writer name are:

RM

A standard prefix that identifies the external writer name as part of the product

X

An encoded system identifier value between 1 and 9 inclusive or A through V inclusive that corresponds to the system ID parameter in your RMOPARMS file

Note: In the system identifier table, O and zero (0) are switched for users who are using only one CPU.

nnnnn

A five-digit sequential number from 1 to 99999 that is maintained by the system

Note: The product currently supports a maximum of 32 concurrent system identifiers.

How Are Reports Bundled?

You can retain individual reports in the spool or archive them directly to a CA View database for printing in one bundle.

As a report is created by a program, the list of bundles is scanned to determine if the report is to be bundled. If it is, and the report is not being archived directly to a CA View database, a bundle holding copy of the report is written to spool using a unique SYSOUT program name (an external writer name).

The bundle holding copy is written with a SYSOUT class and destination defined by the BNDLCLS and BNDLDEST initialization parameters. The bundle holding copy is retained in spool until all bundles referencing it have been queued for printing. If the report is supposed to be bundled and it is being archived directly to the CA View database, a spool bundle holding copy of the report is not created; instead, the archive copy is used later to compose the bundle. Reports are still distributed at the report level so you must include the distribution identifier that matches the original report definition for that report if the copy is to be included in the bundle.

If all distribution identifiers for a report are defined for the bundles referencing the report, unbundled copies of the report are *not* produced. Alternately, if you want to produce unbundled reports, the report definition distribution specification must include the name of the recipient (that is, the distribution identifier) for that unbundled copy.

Note: The order in which the reports are written in a bundle is first by distribution identifier and second by report identifier, as defined by the bundle definition.

Examples

Following are some sample bundle and report definitions:

- Bundle identifier: BUNDLE1

- Distribution identifiers: DIST1, DIST2, DIST3, DIST4, DIST5
  Report identifiers: REPORT1, REPORT2, REPORT3

- Distribution identifiers: DIST1, DIST4, DIST5
  Report identifier: REPORT1

- Distribution identifiers: DIST2, DIST3, DIST6, DIST7
  Report identifier: REPORT2

- Distribution identifiers: DIST1, DIST3, DIST5
  Report identifier: REPORT3

When all of the reports required by the bundle are created, the bundle is written out and contains the following reports:

- BUNDLE1 start bundle banner page

  - DIST1 distribution banner page
            REPORT1 report banner page
                    REPORT1
            REPORT3 report banner page
                    REPORT3

– DIST2 distribution banner page
REPORT2 report banner page
REPORT2

– DIST3 distribution banner page
REPORT2 report banner page
REPORT2
REPORT3 report banner page
REPORT3

– DIST4 distribution banner page
REPORT1 report banner page
REPORT1

– DIST5 distribution banner page
REPORT1 report banner page
REPORT1
REPORT3 report banner page
REPORT3

Note: Non-bundled copies of REPORT2 are created for distribution to the DIST6 and DIST7 distribution identifiers when REPORT2 is created.

Bundle Confirmation

The *bundle confirmation* feature controls the times when bundles are actually queued for printing.

When you specify bundle confirmation as YES (initialization parameter BNDLCONF=YES), or when you specify Y in the Bundle Confirm? field on the Bundle Definition Attributes panel, a bundle is *not* automatically queued for printing when it is ready. Instead, the active entry for the bundle is marked with an exceptional condition of READY or BOT POST when the time period specified by BNDLSCAN occurs. You must then post the bundle for printing either by entering the P tabular command on the Active Bundle List panel, or by using the batch bundle posting utility RMOBPR to print it.

You can use bundle confirmation to give your operators more control over bundling—for example, to control job reruns. In this case, by requiring confirmation before bundles actually print, you can rerun jobs, and the original reports recreated by the reruns can be deleted from bundling.

You can confirm individual bundles or all bundles.

RMOBPR: Printing a Bundle From Batch

You can use the RMOBPR utility to post a bundle or bundles for printing from batch. You can use it in combination with bundle confirmation to explicitly control when bundles are printed.

For example, if three jobs produce reports that are bundled together, you could add a step at the end of the third job to post the bundles for printing.

The RMOBPR utility is described in detail in the *Reference Guide*.

Rules for Specifying Distribution and Report Identifiers

The rules to keep in mind when you specify distribution and report identifiers in bundle definitions are:

- List distribution identifiers on the Bundle Distribution Specifications subpanel in the order you want each recipient's set of reports ordered in the bundle.

    For example, if you list distribution identifiers in the following order, reports for distribution identifier D01PRES are placed first in the bundle, reports for D01VPRES are placed second, and so on:

    D01PRES
    D01VPRES
    D30SMG01
    D30SMG02
    D30SMG03

- List reports on the Report Specifications subpanel in the order you want a recipient to read them.

    For example, if you list reports for the preceding distribution identifiers in the following order on the Report Specifications subpanel, report U90526-R04 is placed first, and report U50500-R01 is placed second within the set of reports D01PRES is to receive:

    U90526-R01
    U90526-R02
    U90526-R03
    U90526-R04
    U50500-R01

- Specify previously-defined distribution and report identifiers on the bundle Distribution Specifications and Report Specifications subpanels.

    Define distribution identifiers on the report Distribution Specifications subpanel and define report identifiers on the Reports for Job panel.

- Be sure that the distribution identifiers you list on the Bundle Distribution Specifications subpanel are the same identifiers you defined for at least *one* of the reports you list on the Report Specifications subpanel.

  Be sure that the distribution and report identifiers that you specify are defined as a corresponding pair of identifiers (on the report Distribution Specifications subpanel and Reports for Job panel).

- Be sure that you list distribution identifiers on the Bundle Distribution Specifications subpanel.

  If the Bundle Distribution Specifications subpanel is empty, the bundle is *not* output.

Rules for Specifying a Generic Distribution Identifier

The rules to keep in mind when you specify a generic distribution identifier in bundle definitions are:

- Generic distribution identifiers are defined by adding a suffix of '*' to the Distribution Id. All Distribution Ids that match the characters preceding the '*' mask character are included in the bundle. Beginning or embedding the '*' masking character within the Distribution Id is not permitted.

  For example, if you define the distribution identifier D01PRES* to the Bundle definition, the reports are distributed to Distribution Id D01PRES and all other Distribution Ids that begin with the matching D01PRES value:

  D01PRES*

- Explicitly defined non-generic Distribution identifiers that match any generic distribution Ids are included in the bundle. However, they are not grouped within the bundle or with other generic Distribution identifiers.

  For example, if you define the distribution identifier D01PRES to the Bundle definition, the reports are distributed to Distribution Id D01PRES. All other Distribution Ids that begin with the matching D01PRES value are grouped and distributed together within the bundle:

  D01PRES

  D01PRES*

- Substituted Distribution identifiers are included in the output bundle in sequential order of their names.

Chapter 11: Deleting Reports and Rerunning Jobs that End Abnormally

This chapter explains how to manually delete non-bundled and bundled unwanted (bad) reports and rerun abnormally ended jobs, and includes information about how to::

■ Understand the daily production cycle

■ Know the difference between an initial run, a rerun, and a complete cycle

■ Become familiar with the three Active Report List panels

■ Become familiar with the three Active Bundle List panels

■ Use CA Deliver to manually delete bad reports and rerun jobs that end abnormally

You can use the information in this chapter in two ways:

■ If you do *not* have CA 11 or *no* interface between
CA 11 and CA Deliver is set up at your site, we recommend that you read and try out each procedure.

■ If you have an interface set up between CA 11 and CA Deliver at your site, you might only need this chapter as a reference. The combination of these products causes bad reports to be deleted automatically and jobs that end abnormally are automatically rerun at your site.

This section contains the following topics:

What Is an Initial Run, a Rerun, and a Complete Cycle?

An *initial run* is the first execution of a job. An initial run is *not* a rerun or a restart.

A *rerun* is the execution of an entire or partial job after one of the occurrences:

■ A job ends abnormally

■ A report is lost

■ Bad input is encountered

■ An unacceptable condition occurs during the processing of a job.

A *complete cycle* is the repeated execution of a set of JCL statements for a job. A complete cycle begins when you first attempt to execute the JCL statements for a job and ends when you completely and successfully execute those JCL statements. All events that occur between the first attempt to execute the JCL statements and the complete and successful execution of the JCL statements belongs to a complete cycle. A complete cycle can include an initial run and one or more reruns.

The Daily Cycle

CA Deliver maintains historical, status, and exception type data for reports based on a *daily cycle*. For most sites, the daily cycle corresponds to the daily production cycle.

■   You define the time of day that a new daily cycle begins by setting the TIME initialization parameter.

You can suppress the start of a new daily cycle on any day of the week by setting the DAYS initialization parameter. For example, you might want to treat weekend processing as a single cycle. In this case, the start of a new daily cycle is suppressed on Saturday and Sunday.

■   The daily cycle is triggered by an internal timer that is set based on the local time. When the local time changes because of daylight savings time, the internal timer is adjusted because the GMT offset has changed. Therefore, the daily cycle starts at the proper local time after the time change has occurred.

What Happens When a Cycle Starts?

When a new daily cycle starts, the system:

■   Moves active report status entries from the current cycle to the prior cycle

Note: If the value of STATUS for an entry is BNDL SEL or BNDLWAIT, the entry is not moved.

■   Deletes active report status entries for the prior cycle

■   Updates the current generation for history from 0 to -1, from -1 to -2, and so on

■   Starts the report activation procedure, if any, that is named on the START initialization parameter to schedule the current set of active reports

Understanding Active (and Inactive) Reports and Bundles

The terms used in report and bundle activation are as follows:

■ An *active report* is a report that is scheduled to be produced during the current daily cycle.

■ An *active bundle* is a bundle that is scheduled to be produced during the current daily cycle.

■ Reports and bundles in active status are called *active reports* and *active bundles*.

Activating a report is the process of marking a report that is to be produced on the current daily cycle.

Inactivating a report is the process of removing a report from the list of reports to be produced on the current daily cycle.

You can activate and inactivate reports individually or by job. You can also activate reports and jobs in batch mode. Do *one* of the following to activate reports:

■ Use the online facility.

■ Execute the RMORAP utility.

For more information, see the *Reference Guide.*

■ Use both the online facility and the RMORAP utility.

The system automatically:

■ Activates a bundle whenever any report defined for it is activated.

■ Inactivates a bundle automatically when all reports defined for it are inactivated.

Active Report List Panels

The three Active Report List panels are:

■ Active Report List (1)

■ Active Report List (2)

■ Active Report List (3)

These panels present the extensive amount of information that is available about active reports. Use the Active Report List panels to list the status of active reports.

This section describes these panels and tells you how to display and use them.

Using the Active Report List Panels

To use the Active Report List panels:

1. Enter *one* of the following commands on the command line of the Primary Selection Menu panel to specify the active report information you want to display:

    A R

    The complete list of active reports

    A R PREV

    Only a list of reports generated during the previous cycle

    A R X

    Only a list of reports for which there are exceptions

2. Press Enter to display the report list on the Active Report List (1) panel.

3. Enter the **LEFT** system-wide command (or press PF10 or PF22) or the **RIGHT** system-wide command (or press PF11 or PF23) to toggle among the three Active Report List panels.

Sample Active Report List Panel (1)

```
CA Deliver - Active Report List (1) -------------------------------------------
Command ===>                                              Scroll ===> PAGE

                                   Job Def  Exec     Exec
Sel Report ID                      Name     Jobname  Jobid   Status   Excpt
==> *                              *        *        *       *        *








****************************** Bottom of Data ******************************
```

Fields

This list describes the fields on the Active Report List (1).

Report ID

Identifies the report

Job Def Name

The name of the job definition used to process this report

Exec Jobname

The name of the job that created the report

Exec Jobid

The JES identifier number for the job that created (or is creating) the report

Note: This field remains blank until the report is selected for creation.

Status

The status of a report:

Blank

The report is active and has not been opened

ACT PEND

Pending its use, the report will be activated automatically

BNDL SEL

The report is selected for bundling

BNDLWAIT   —

The report is created and awaiting bundling

DELETE

The bundle holding copy is to be deleted

DELETED

The bundle holding copy is deleted

JESQWAIT

The bundle holding copy is waiting to be queued in JES

OPEN

The report is open and at least one record in it has been written

PURGED

The job that created the report has been purged

QUEUED

The report is closed and queued for printing

Excpt

Indicates whether an exception has occurred for a report

The exception information that can be displayed in this field is:

Blank

Exceptions do not exist for the report

ABEND

The job that created the report ended abnormally

LATE

The report is late

NPROD

The report was not produced; the job that was to produce the report completed without actually creating the report

Sample Active Report List Panel (2)

```
CA Deliver - Active Report List (2) ------------------------------------------
Command ===>                                              Scroll ===> PAGE

                                   Job   Create        Late  Dist View  View
Sel Report ID                      Seq   Sysid         Time  Day  Gen   Seq
==> *                                    *             *     *

****************************** Bottom of Data ******************************
```

Fields

This list describes the fields on the Active Report List (2) panel.

Report ID

Identifies the report

Job Seq

The internal sequence number assigned to the job that created the report

Create Sysid

The identifier for the system that created the job

Dist Day

The day of the week that the report was processed

By default, the distribution day is based on the day that the job was submitted and the setting of the BEGINDAY initialization parameter. Jobs submitted prior to the BEGINDAY setting are considered part of the previous day's cycle.

Late Time

The time in a 24-hour clock hh:mm format when the report is to be marked late if it is not queued for printing

For example, 23:35

View Gen

The CA View generation number

View Seq

Identifies the CA View SYSOUT sequence number

Sample Active Report List Panel (3)

```
CA Deliver - Active Report List (3) -----------------------------------------
Command ===>                                                    Scroll ===> PAGE
                                                               Bundle
Sel Report ID                     Bundle ID                    Xwtr
==> *                             *                            *




****************************** Bottom of Data ******************************
```

Fields

This list describes the fields on the Active Report List (3) panel.

Report ID

Identifies the report

Bundle ID

The bundle

Bndl Xwtr

The external writer number of the bundle-holding copy

Active Bundle List Panels

The three Active Bundle List panels are:

■ Active Bundle List (1)

■ Active Bundle List (2)

■ Active Bundle List (3)

These panels present the extensive amount of information that is available about active bundles. Use the Active Bundle List panels to list the status of active bundles.

This section describes these panels and tells you how to display and use them.

Using the Active Bundle List Panels

To use the Active Bundle List panels:

1. Enter *one* of the following commands on the command line of the Primary Selection Menu panel to specify the active bundle information you want to display.

   A R

   The complete list of active bundles

   A R PREV

   Only a list of bundles generated during the previous cycle

   A R X

   Only a list of bundles for which there are exceptions

2. Press Enter to display the bundle list on the Bundle Report List (1) panel.

3. Enter the **LEFT** system-wide command (or press PF10 or PF22) or the **RIGHT** system-wide command (or press PF11 or PF23) to toggle among the three Active Bundle List panels.

Sample Active Bundle List Panel (1)

```
CA Deliver - Active Bundle List (1) -------------------------------------------
Command ===>                                                  Scroll ===> PAGE

                                           Remaining
Sel Bundle ID                              Intvl Time  Wait  Status   Excpt
==> *                                           *       *     *        *






****************************** Bottom of Data ******************************
```

Fields

This list describes the fields on the Active Report List (1) panel.

Bundle ID

Identifies the bundle

Remaining Intvl Time

The time remaining in the current interval

Wait

Indicates whether the bundle is to be held for production (until the interval or late time is expired) or produced as soon as the reports in the bundle are ready

YES—The bundle is held for production

Blank—The bundle is produced as soon as the reports are ready

Status

The status of the bundle:

Blank—The bundle has not been created

OPEN—The bundle is open and is being created

PRT REQ—The bundle has been manually selected for printing with the Print Bundle Now tabular command P

QUEUED—The bundle is closed and is queued for print processing

Excpt

Indicates whether an exception has occurred for a report:

Blank—No exceptions exist for the bundle

ABEND—The job that created the bundle ended abnormally

INCMP—The bundle was printed before all the active reports that it was to contain were created

NPROD—The bundle consists entirely of reports that were not produced

READY—The bundle is ready for printing

READY is displayed only when bundle confirmation is on.

Sample Active Bundle List Panel (2)

```
CA Deliver - Active Bundle List (2) -------------------------------------------
Command ===>                                                    Scroll ===> PAGE

                                         Wait        Act Pnd Rdy Bdl
Sel Bundle ID                       Late Late Intvl  Cnt Cnt Cnt Cnt
==> *                                *    *    *

****************************** Bottom of Data ******************************
```

Fields

This list describes the fields on the Active Bundle List (2) panel.

Bundle ID

Identifies the bundle

Late

The time in a 24-hour hh:mm format (for example, 23:33) when the bundle is to be marked late if it is not queued for printing

Wait Late

Indicates whether the bundle is to be produced when reports in the bundle are ready or at the bundle late time

YES -   The bundle is to be produced at the late time

Blank - The bundle is to be produced as soon as the reports are ready

Intvl

The number of hours and/or minutes that are to elapse before subsequent continuation bundles are to be created

Act Cnt

The count of active reports in the bundle

Pnd Cnt

The count of reports for which activation is pending

Rdy Cnt

The count of reports ready to be bundled

Bdl Cnt

Indicates the count of reports that have been bundled

Sample Active Bundle List Panel (3)

```
CA Deliver - Active Bundle List (2) --------------------------------------------
Command ===>                                              Scroll ===> PAGE

                                         Locked
Sel Bundle ID                            Sysid        Submit
==> *                                    *            *







****************************** Bottom of Data ******************************
```

Fields

This list describes the fields on the Active Bundle List (3) panel

Bundle ID

Identifies the bundle

Locked Sysid

The operating system on which the report is being processed and to which the bundle is locked

Note: This field contains a value only during the initial selection and creation of a report.

Submit

Indicates whether a batch job has been submitted to create the bundle as follows:

Blank -   A batch job is not submitted

YES -   A batch job has been submitted

Deleting Bad Reports

How you delete a bad report is determined by whether it is bundled or not.

This section presents an overview of the methods to use to delete a non-bundled or a bundled bad reports.

Deleting Non-Bundled Bad Reports

To delete a non-bundled bad report, you must manually delete the bad report when the report is queued on the spool.

To delete a bad report, issue the JES command by JOB or OUTGROUP using:

- An MVS system console

- A compatible spool product that enables you to issue operator commands (such as CA SYSVIEW Realtime Performance Management or IBM's System Display and Search Facility product).

Deleting Bundled Bad Reports

If a job that produces a bundle terminates, and a non-zero value is returned, the bundle is placed in a wait status. The job stays in that status until the system encounters a type 5 or type 30 System Management Facilities (SMF) record for which a zero return code is generated.

Note: Type 5 or type 30 SMF records are typically issued when you rerun the job that produced the initial bundle.

To delete bad reports in a bundle, use *one* of the following methods:

- Issue the JES command by JOB or OUTGROUP through an MVS system console or a compatible spool product that enables you to issue operator commands.

- Enter **D**, the DELETE tabular command, on the Active Report List for Bundle panel.

Manually Deleting Reports and Rerunning Jobs That End Abnormally

1. Check the data in each of the reports that comprised the abnormally-ended job:

   - Determine if the data is good or bad

     Note: You can use CA SYSVIEW or IBM's System Display and Search Facility product, or a similar display product to check the data.

   - Make a list of the job and report identifiers of the reports that contain bad data.

2. On the command line of the Primary Selection Menu panel, enter **A**, a space and **B**, and press Enter to display the Active Bundle List (1) panel.

```
CA Deliver - Active Bundle List (1) -------------------------------------------
Command ===>                                               Scroll ===> PAGE

                                        Remaining
Sel Bundle ID                           Intvl Time  Wait  Status  Excpt
===> *                                  *           *     *       *
    APBUNDL1                            00:00
    APBUNDL2                            00:00             QUEUED




****************************** Bottom of Data *******************************
```

3.   Move the cursor down the Sel column next to the bundle that contains the reports with bad data.

4.   Enter **C** (the Display Bundle Contents tabular command), and press Enter to display the Active Report List for Bundle panel.

```
CA Deliver - Active Report List for Bundle (1) APBUNDL1 ----------------------
Command ===>                                               Scroll ===> PAGE

                           Job Def  Exec     Exec
Sel Report ID              Name     Jobname  Jobid     Status  Excpt
===> *                     *        *        *         *       *
    TRJOB02-R01            TRJOB02  TRJOB02  JOB05496 BNDLWAIT
    TRJOB02-R02            TRJOB02  TRJOB02  JOB05765 BNDLWAIT
    TRJOB02-R03            TRJOB02  TRJOB02  JOB05555 BNDLWAIT




****************************** Bottom of Data *******************************
```

5.   Move the cursor down the Sel column to the report that contains the bad data, enter **D** and press Enter.

     DELETE is displayed in the Status field. The message BUNDLE COPY DELETED is displayed in the short message area.

6.   Repeat Step 5 until all reports that contain bad data are deleted.

7.   Press PF4 or PF16 to display the Primary Selection Menu panel.

8.   Resubmit the job that created the bundle.

Note: If you do not expect to rerun the job or job step that produced the bundle, you must issue the P command (FORCE PRINT tabular command) to print and clear the bundle.

Chapter 12: Obtaining Historical Data

This chapter describes how the recipients of reports and bundles are tracked and verified by the historical data and detail historical data features and includes information about how to:

- Activate historical data and detailed historical data for reports and bundles of reports

- Define the maximum number of generations of historical data and detail historical data to display

- Display historical data and detailed historical data for reports and bundles of reports

This section contains the following topics:

Activating the Historical Data Feature

To activate detail historical data:

1. Set the initialization parameter HDETAIL to YES.

2. Install user exit.

Note: For more information about the HDETAIL initialization parameter and user exits, see the *Installation Guide*.

Defining the Maximum Number of Generations of Historical Data

Use the MAXHIST initialization parameter. MAXHIST defines the maximum number of generations of a report or bundles of reports for which historical data is maintained for a printed SYSOUT.

Note: For more information about the MAXHIST initialization parameter, see the *Reference Guide*.

Displaying Report Historical Data

You can display the following historical data for a selected report:

- The generation (the 24-hour period starting at the time specified in the TIME initialization parameter) when the report was executed and the number of times in the generation that the report was created

- The name and job identifier for the job that created the report

- The number of records and pages that were created and queued for printing

- The date and time when the report was queued for printing

You can do the following:

To display historical data for a selected report, enter H in the Sel column of the Reports for Job panel, Report Selection List panel, or Active Report List panel.

- To display the Reports for Job panel and subsequently display report historical data, use this procedure:

On the command line of the Primary Selection Menu panel, enter J, a space, and the job name.

For example, you specify the job name TRJOB01 in the JCL for the job as follows:

```
CA Deliver - Primary Selection for DELIVER.SYSTEM1 ---------------------------
Command ===> J TRJOB01

  A Active Display    - Display selection list of active reports or bundles.
  B Bundle Data       - Display bundle data.
  D Distribution Data - Display distribution data.
  J Job Data          - Display job data.
  R Report Data       - Display report data.

    Operands for A:
      B    - Display selection list of active bundles.
      R    - Display selection list of active reports (default).
      X    - Limit selection list to exceptions.
      PREV - Display selection list for previous cycle.

    Operand for B,D,J,R:
      Omit operand for complete selection list.
      Specify identifier to display data.
      Specify generic identifier for limited selection list.
      L    - For D only, display list of distribution lists.

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

1. Press Enter to display the Reports for Job panel.

```
CA Deliver --------------- Reports for Job: TRJOB01 ------- Row 00001 of 00001
Command ===>                                            Scroll ===> PAGE

 Desc    ===>
 Prevrun ===>

Sel Stepname Procstep DDname    Report ID                    Type  Prevrun
    EDITSTEP          EDITLIST  TRJOB01-R01
***************************** Bottom of Data ******************************
```

2. Enter **H** in the Sel column next to the first entry.

```
CA Deliver - Report Historical Data ----------------------- Row 00001 of 00005
Command ===>                                            Scroll ===> PAGE

  ID      ---> TRJOB01-R01

Sel Gen Jobname  Jobid           Lines  Pages -- Print Queued --  Prevrun
    +0  TRJOB01  JOB07400        1564     300 11/10/2013 09:34:30
    -1  TRJOB01  JOB02379        1562     300 11/10/2013 08:46:48
    -2  TRJOB01  JOB05263        1495     298 11/09/2013 09:32:07
    -2  TRJOB01  JOB05261        1461     297 11/09/2013 09:31:12
    -2  TRJOB01  JOB05219        1430     296 11/09/2013 09:07:43
***************************** Bottom of Data ******************************
```

3. Press Enter to display the Report Historical Data panel for the selected job.

Fields

This list describes the fields on the Report Historical Data panel.

Sel

Specifies tabular command

Gen

Shows the generation (24-hour period starting at TIME initialization parameter) in which the report was executed and the number of times in the generation that the report was created

+0 is the current generation. Note that in generation -2, the report ran 3 times.

Jobname

The job name associated with the report

Jobid

The JES job number associated with the report

Lines/Pages

The number of print lines and pages queued for the report

Print Queued

The date and time when the report was queued to print

Prevrun

Specifies that reports from the most recently run job for CA Deliver and CA View are to be flagged, deleted, or left unprocessed

Displaying Report Detail Historical Data

You can display this detailed historical data for a selected report:

- The history detail number

- The distribution identifier or recipient of the report and bundle identifier

- The assigned tracking number

- The group distribution identifier

- The station to which reports are posted

- The date and time when the report was queued for printing

- The number of lines and pages printed at the station

Using the Report Detail Historical Data Panels

To display the Report Detail Historical Data panels:

On the Reports for Job panel, the Report Selection List panel, or the Active Report List panel, enter H in the Sel column .

On the Report Detail Historical Data panel, enter S in the Sel column next to the first entry and press Enter.

Enter the LEFT system-wide command (or press PF10 or PF22) or the RIGHT system-wide command (or press PF11 or PF23) to toggle between the Report Detail Historical Data panels.

Sample Report Detail Historical Data Panel (1)

```
CA Deliver ----------- Report Detail Historical Data (1) --- Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

  ID    ---> TRJOB01-R01
  Job   ---> TRJOB01      Jobid   ---> JOB07400      Generation ---> +0

Sel Hdn        Distribution ID              G Station   Date       Time
    0000002513 D27MGR                         R05.PR2   11/06/2013 08:35
                                              B&D       11/06/2013 09:46
                                              COURIER   11/06/2013 10:14
                                              DROPOFF   11/06/2013 09:47
                                              SHREDDER  11/07/2013 10:48
    0000002876 D27DIR                         PRINTR5   11/06/2013 07:37
                                              B&D       11/06/2013 08:36
                                              COURIER   11/06/2013 09:46
                                              DROPOFF   11/06/2013 10:47
                                              SHREDDER  11/07/2013 09:48
****************************** Bottom of Data ******************************
```

Fields

This list describes the fields on the Report Detail Historical Data (1) panel.

Sel

Specifies a tabular command

Hdn

The history detail number generated from the record and block associated with the retrieval of data for the report from the history subfile

Note: Hdn distinguishes individual copies of the report within bundled and non-bundled reports.

Distribution ID

The recipient of the report

G

Indicates whether the report is grouped by a distribution identifier

Station

The tracking station names to which reports or bundles are posted

Names are defined by the STNAMEn initialization parameter.

The first entry is the identifier of the printer that was returned from JES.

Note: An asterisk indicates that the report is to be printed.

Date

The date when the report is posted at the station

Time

The time when the report is posted at the station

Sample Report Detail Historical Data Panel (2)

```
CA Deliver ----------- Report Detail Historical Data (2) --- Row 00001 of 00010
Command ===>                                           Scroll ===> PAGE

  ID    ---> TRJOB01-R01
  Job   ---> TRJOB01      Jobid   ---> JOB07400      Generation ---> +0


                                             User Data
Sel Hdn        Bundle ID             Bsn Station   (Lines Pages)
    0000002513 D902B1                013   R05.PR2 1564  300
                                           B&D        CHERYL
                                           COURIER    JIM
                                           DROPOFF    EVELYN
                                           SHREDDER   BILL
    0000002876                             PRINTR5 1564  300
                                           B&D        TOM
                                           COURIER    MARY
                                           DROPOFF    JANE
                                           SHREDDER   RALPH
***************************** Bottom of Data *****************************
```

Fields

This table describes the fields on the Report Detail Historical Data (2) panel.

Sel

Specifies a tabular command

Hdn

The history detail number generated from the record and block associated with retrieval of data for the report from the history subfile

Hdn distinguishes individual copies of the report within bundled and non-bundled reports.

Bundle ID

The bundle and bundle identifier

Bsn

Indicates that sequential tagging occurred and a tracking number that lets you determine if the report belongs to more than one bundle was assigned

Station

The tracking station names to which reports or bundles are posted

Names are defined by the STNAMEn initialization parameter.

The first entry is the printer identifier that is returned from JES.

Note: An asterisk indicates that the report is to be printed.

User Data (Lines/Pages)

The number of lines and pages that are printed at the station

Displaying Bundle Historical Data

You can display the following historical data for a selected bundle:

- The generation (the 24-hour period starting at the time specified in the TIME initialization parameter) when the bundle was executed and the number of times in the generation that the bundle was created

- The name and job identifier for the job that created the bundle

- The number of records and pages that were created and queued for printing

- The date and time when the bundle was queued for printing

You can do the following:

To display historical data for a selected bundle, enter the DISPLAY HISTORICAL DATA tabular command H in the Sel column of the Bundle Selection List panel or Active Bundle List panel.

■ To display the Primary Selection Menu panel and subsequently display the Bundle Historical Data panel, use the following procedure.

Follow these steps:

1. Enter **B** on the command line of the Primary Selection Menu panel.

```
CA Deliver - Primary Selection for DELIVER.SYSTEM1 ----------------------------
Command ===> B

  A Active Display    - Display selection list of active reports or bundles.
  B Bundle Data       - Display bundle data.
  D Distribution Data - Display distribution data.
  J Job Data          - Display job data.
  R Report Data       - Display report data.

    Operands for A:
      B    - Display selection list of active bundles.
      R    - Display selection list of active reports (default).
      X    - Limit selection list to exceptions.
      PREV - Display selection list for previous cycle.

    Operand for B,D,J,R:
      Omit operand for complete selection list.
      Specify identifier to display data.
      Specify generic identifier for limited selection list.
      L    - For D only, display list of distribution lists.

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

2. Press Enter to display the Bundle Selection List panel, which contains a complete list of bundle identifiers.

```
CA Deliver --------------- Bundle Selection List (1) --------------------------
Command ===>                                               Scroll ===> PAGE

Sel Bundle ID                    Description
===> *                           *
    APBUNDL1                     ACCOUNTS PAYABLE REPORTS
    SABUNDL2                     SALES DATA REPORTS
***************************** Bottom of Data ******************************
```

3. Enter **H** in the Sel column next to the first entry.

4. Press Enter to display the Bundle Historical Data panel.

```
CA Deliver - Bundle Historical Data ---------------------- Row 00001 of 00002
Command ===>                                              Scroll ===> PAGE

   ID     ---> APBUNDL1

Sel Gen Jobname  Jobid          Lines   Pages -- Print Queued --
    +0 APBUNDL1 JOB07200          523      15 11/03/2013 15:34:30
    -1 APBUNDL1 JOB02339          562      16 11/02/2013 09:46:48
***************************** Bottom of Data ******************************
```

Fields

This table describes the fields on the Bundle Historical Data panel.

Sel

Specifies the tabular command

Gen

Shows the generation (24-hour period starting at TIME initialization parameter) in which the bundle was executed and the number that represents previous generations for which there was valid data relative to the current generation

+0 is the current generation.

Jobname

The job name associated with the execution of the bundle

Jobid

The JES job number associated with the execution of the bundle

Lines/Pages

The number of print lines and pages that were queued for the bundle

Print Queued

The date and time that the bundle was queued to print

Displaying Bundle Detail Historical Data

You can display the following detailed historical data for a selected bundle:

- The history detail number

- The distribution identifier or recipient of the bundle and bundle identifier

- The assigned tracking number

- The group distribution identifier

- The station to which the bundle is posted

- The date and time that the bundle was queued for printing

- The number of lines and pages printed at the station

Using the Bundle Detail Historical Data Panels

To display detail historical data for a bundle:

1. On the Bundle Historical Data panel, enter the Select tabular command S next to the first entry in the Sel column and press Enter.

2. Enter the **LEFT** system-wide command (or press PF10 or PF22) or **RIGHT** system-wide command (or press PF11 or PF23) to toggle between the Bundle Detail Historical Data panels.

Sample Bundle Detail Historical Data Panel (1)

```
CA Deliver ----------- Bundle Detail Historical Data (1) --- Row 00001 of 00010
Command ===>                                             Scroll ===> PAGE

Bundle ID    ---> TRBUNDL1
Job          ---> TRBUNDL1   Jobid    ----> JOB8340
Bundle Hdn   ---> 0000002501  Bundle Seq -> 001          Gen      --->  +0
Bundle Lines -->       3128  Bundle Pages -->        600


Sel Hdn         Distribution ID              G Station  Date       Time
    0000002513 D27MGR                          PRINTER1 11/05/2013 07:42
                                               B&D      11/05/2013 09:46
                                               COURIER  11/05/2013 10:14
                                               DROPOFF  11/05/2013 09:47
                                               SHREDDER 11/06/2013 10:48
    0000002515 D27DIR                          PRINTER1 11/05/2013 07:42
                                               B&D      11/05/2013 08:36
                                               COURIER  11/05/2013 09:46
                                               DROPOFF  11/05/2013 10:47
                                               SHREDDER 11/06/2013 09:48
****************************** Bottom of Data ******************************
```

Fields

Sel

Specifies a tabular command

Hdn

The history detail number generated from the record and block associated with retrieval of data for the bundle from the history subfile

Hdn distinguishes individual copies of the report within bundled or non-bundled reports.

Distribution ID

The recipient of the bundle

G

Indicates whether the bundle is grouped by a distribution identifier

Station

The name of the tracking station to which reports or bundles are posted

Names are defined by the STNAMEn initialization parameter.

The first entry is the identifier of the printer that was returned from JES.

Note: An asterisk indicates that the report is to be printed.

Date

The date that the bundle is posted at the station

Time

The time that the bundle is posted at the station

Sample Bundle Detail Historical Data Panel (2)

```
CA Deliver ----------- Bundle Detail Historical Data (2) --- Row 00001 of 00010
Command ===>                                             Scroll ===> PAGE

Bundle ID   ---> TRBUNDL1
Job         ---> TRBUNDL1   Jobid   ----> JOB8340
Bundle Hdn  ---> 0000002501 Bundle Seq -> 001           Gen     ---> +0
Bundle Lines -->       3128 Bundle Pages -->        600

                                                   User Data
Sel Hdn        Report ID                 Station   (Lines Pages)
    0000002513 RMO27A51-X1A               PRINTER1  1564 300
                                          B&D
                                          COURIER    JIM
                                          DROPOFF    EVELYN
                                          SHREDDER   BILL
    0000002515 RMOD27A51-X1A              PRINTER1  1564 300
                                          B&D        TOM
                                          COURIER    MARY
                                          DROPOFF    JANE
                                          SHREDDER   RALPH
***************************** Bottom of Data ******************************
```

Fields

This list describes the fields on the Bundle Detail Historical Data (2) panel.

Sel

Specifies a tabular command

Hdn

The history detail number that is generated from the record and block associated with retrieval of data for the bundle from the history subfile

Hdn distinguishes individual copies of the report within bundled or non-bundled reports.

Report ID

The report identifier of the report in the bundle

Station   The name of the tracking station to which reports or bundles are posted

Names are defined by the STNAMEn initialization parameter.

The first entry is the printer identifier returned from JES.

Note: An asterisk indicates that the report is to be printed.

User Data (Lines/Pages)

The number of lines and pages that are printed at the station

Chapter 13: Archiving and Reprinting Reports

This chapter explains how to archive and reprint CA Deliver reports using CA View.

Use CA Deliver and CA View together to archive CA Deliver reports automatically to disk or tape. You can also use CA View to browse and reprint CA Deliver reports just as you would browse and reprint any other SYSOUT archived in CA View.

Note: For more information about:

■ Archiving CA Deliver reports to CA View, see the CA View Reference Guide and the CA View User Guide.

■ Reprinting CA Deliver reports in CA View, see the CA View User Guide.

Important! We recommend that you archive your CA Deliver reports to be certain that they are available when you need them

This section contains the following topics:

Archiving Reports

You can use CA Deliver to archive reports to the CA View database in two ways:

■ Through spool to the CA View database

■ Directly to the CA View database

Note: When you include a report in a bundle, the holding copy is not created in spool. Instead, the report archived in the CA View database is added to the bundle. For more information about bundles of reports, see the chapter "Creating a Bundle of Reports."

Specifying How Reports Are Archived

There are two ways you can specify how you want to archive CA Deliver reports to CA View:

- Use the Arch field on the Report Definition Attributes panel

- Use the CA Deliver initialization parameter ARCH (with initialization parameter ARCH*nn*)

Note: ARCH*nn* is used by default if you do not specify a value in the Arch field on the Report Definition Attributes panel.

For more information:

- The Arch field is described in the section Using the Report Definition Attributes Panel in the chapter "Defining Basic Reports."

The ARCH and ARCHnn initialization parameters are described in the *CA View Reference Guide*.

Moving ACIF Data

Advanced Function Printing Conversion and Indexing Facility (ACIF) report data is carried through CA Deliver with its relevant attributes (including GROUP ID) for use by the SARFSS started task. There are several ways to pass ACIF data to the SARFSS started task.

There are several ways to pass ACIF data to the SARFSS started task:

Set relevant attributes (distribution ID, class, destination, and so on) so that the report is routed to the SARFSS task. Place an asterisk in the Banner field of the Report Definition Attributes panel so that the start and end banner pages are not added to the ACIF report.

- Use the Arch field on the Report Definition Attributes panel to archive a copy of the report directly to the CA View database for backup and later reprinting to the SARFSS started task.

  Note: In this situation, you cannot browse this report, since it is never indexed by SARFSS.

- Use the archive copy destined for the SARFSS started task instead of sending the report to the SARFSS started task, as described earlier, .

Note: CA Deliver report identifiers, which are used to identify SYSOUT, are displayed on all relevant panels in CA View.

Chapter 14: Deleting Job Names, Distribution Identifiers, and Bundle Identifiers from Your Test Database

This chapter describes how to delete job names, distribution identifiers, and bundle identifiers from your test database.

In this demonstration, you are to delete five job names, ten distribution identifiers, and two bundle identifiers from your test database.

The sections that follow specify the items you must delete and explain the steps required to delete them.

Note: You might need to delete more or fewer items, depending on how you used your test database for the tutorials presented in this guide.

This section contains the following topics:

Deleting Job Names from Your Test Database

Delete the following job names from the test database:

- TRJOB01

- TRJOB02

- U90526

- RECJOB01

- U50500

To delete these job names:

1. On the command line of the Primary Selection Menu panel, enter **J**, and press Enter. to display the Job Selection List panel.

   The Job Selection List panel contains a complete list of job names.

2. Enter **D** in the Sel column next to each job name you want to delete.

```
CA Deliver ---------------- Job Selection List (1) ----------------------------
Command ===>                                                  Scroll ===> PAGE

Sel Jobname          Description
==> *                *
 D  RECJOB01         SALES RESULTS 2001
 D  TRJOB01          EDIT OF ACCOUNTING DATA
 D  TRJOB02          UPDATE ACCOUNTS PAYABLE
 D  U50500           QUARTERLY SALES
 D  U90526           QUARTERLY SALES
****************************** Bottom of Data ******************************
```

Note: When you delete job names, all the associated report information you entered is also deleted.

3. Press Enter to display the Confirm Delete panel for the first job.

```
CA Deliver -------------------- Confirm Delete --------------------------------
Command ===>

Job Name: RECJOB01


_ Set delete confirmation off

Press ENTER key to confirm delete request.
Enter END or CANCEL command to cancel delete request.
```

Note: To bypass subsequent displays of the Confirm Delete panels:

– Enter any nonblank character in the Set delete confirmation off field.

– Use the CONFIRM input command which can enable or disable the display of the Confirm Delete panels.

4. Press Enter to delete the first name from your test database.

   The Confirm Delete panel is displayed for the next name you marked.

5. Repeat Step 4 until all job names are deleted.

The Job Selection List is redisplayed, and the message *Job deleted* is displayed in the short message area.

```
CA Deliver --------------- Job Selection List (1) --------------- Job deleted
Command ===>                                             Scroll ===> PAGE

Sel Jobname         Description
===> *              *
****************************** Bottom of Data ******************************
```

6. Press PF4 or PF16 to display the Primary Selection Menu panel.

Deleting Distribution Identifiers from Your Test Database

Delete the following distribution identifiers from the test database:

■ D27SYSP4

■ D27PROD

■ D29ACCT

■ D29AP

■ D30SMG01

■ D30SMG02

■ D30SMG03

■ D01VPRES

■ D01PRES

■ D10MRKT

To delete these distribution identifiers:

1. On the command line of the Primary Selection Menu panel, enter **D**, and press Enter.

The Distribution Selection List panel which contains a complete list of distribution identifiers is displayed.

2. Enter **D** in the Sel column next to each distribution identifier you want to delete, and press Enter.

```
CA Deliver ------------ Distribution Selection List (1) ----------------------
Command ===>                                              Scroll ===> PAGE

Sel Distribution ID              Line 1                               List
===> *                           *                                    *
 D  D01PRES                      DEPT 01 — PRESIDENT
 D  D01VPRES                     DEPT 01 - VICE PRESIDENT
 D  D10MRKT                      DEPT 10 - MARKETING
 D  D27PROD                      DEPT 27 — PRODUCTION SUPERVISOR
 D  D27SYSP4C                    DEPT 27 — SYS PROG (GEORGE JONES)
 D  D29ACCT                      DEPT 27 — ACCOUNTANG
 D  D29AP                        DEPT 29 — ACCOUNTS PAYABLE
 D  D30SMG01                     DEPT 30 — SALES MANAGER REGION 1
 D  D30SMG02                     DEPT 30 — SALES MANAGER REGION 2
 D  D30SMG03                     DEPT 30 — SALES MANAGER REGION 3
****************************** Bottom of Data ******************************
```

The Confirm Delete panel for the first Distribution ID is displayed:

```
CA Deliver -------------------- Confirm Delete -------------------------------
Command ===>

Distribution Identifier: D01PRES


  Set delete confirmation off

Press ENTER key to confirm delete request.
Enter END or CANCEL command to cancel delete request.
```

Note: To bypass subsequent displays of Confirm Delete panels:

– Enter any nonblank character in the Set delete confirmation off field.

– Use the CONFIRM input command which can enable or disable the display of the Confirm Delete panels.

3. Press Enter to delete the first Distribution ID from your test database and to display the Confirm Delete panel for the next Distribution ID you marked.

4. Repeat Step 3 until all Distribution IDs are deleted.

```
CA Deliver ------------ Distribution Selection List (1) Distribution ID deleted
Command ===>                                              Scroll ===> PAGE

Sel Distribution ID                  Line 1                                List
 ===> *                              *                                       *
****************************** Bottom of Data ******************************
```

The Distribution Selection List panel is displayed and the message Distribution ID Deleted is displayed in the short message area.

5. Press PF4 or PF16 to display the Primary Selection Menu panel.

Deleting Bundle Identifiers from Your Test Database

Delete these bundle identifiers from the test database:

- APBUNDL1
- SABUNDL2

Note: CA Deliver must be active to delete bundle identifiers.

To delete these bundle identifiers:

1. On the command line of the Primary Selection Menu panel, enter **B**, and press Enter.

    The Bundle Selection List panel, which contains a complete list of bundle identifiers is displayed.

2. Enter **D** in the Sel column next to each bundle identifier that you want to delete, and press Enter.

```
CA Deliver --------------- Bundle Selection List (1) --------------------------
Command ===>                                                Scroll ===> PAGE

Sel Bundle ID                      Description
===> *                             *
 D  APBUNDL1                       ACCOUNTS PAYABLE REPORTS
 D  SABUNDL2                       SALES DATA REPORTS
****************************** Bottom of Data *******************************




```

The Confirm Delete panel for the first bundle identifier is displayed.

```
CA Deliver -------------------- Confirm Delete -------------------------------
Command ===>

Bundle Identifier: APBUNDL1


  Set delete confirmation off

Press ENTER key to confirm delete request.
Enter END or CANCEL command to cancel delete request.



```

Note: To bypass subsequent displays of Confirm Delete panels

– Enter any nonblank character in the Set delete confirmation off field.

– Use the CONFIRM input command to enable or disable the display of the Confirm Delete panels.

3. Press Enter to delete the first bundle identifier from your test database.

The Confirm Delete panel is displayed for the next bundle identifier you marked.

4. Repeat Step 3 until all bundle identifiers are deleted.

```
CA Deliver --------------- Bundle Selection List (1) -------- Bundle ID deleted
Command ===>                                                  Scroll ===> PAGE

Sel Bundle ID                    Description
==> *                            *
***************************** Bottom of Data ******************************
```

The Bundle Selection List is displayed and the message *Bundle ID deleted* is displayed in the short message area.

5. Press PF4 or PF16 to display the Primary Selection Menu panel.

Note: CA Deliver must be active to delete bundle identifiers.

Chapter 15: Displaying and Deleting Database Elements

This section discusses the Display and Browse commands and explains techniques to locate, display, and delete elements in the database, including how to:

■   Display commands on the Display Selection panel

■   Browse commands on the Browse panel

■   Use browse labels to mark records you reference often

■   Display, browse, and delete banner pages in the database

■   Display, browse, and delete printer setup members in the database

■   Display, browse, and delete online panels in the database

This section contains the following topics:

Display Command

The Display command is used to display and delete (but not change) banner pages, printer setup members, 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 that you can use.

Display Selection Panel

The Display Selection panel displays a list of banner pages, printer setup members, or online panels that are located in the database.

Note: You can access this panel from the command line of the Primary Selection Menu panel, by entering **DISPLAY** (or **DISP**) and pressing Enter.

```
CA Deliver ---------------- Display Selection Panel --------------------------
Command ===>

  B - Display selection list of banner pages.
  P - Display selection list of printer setup members.
  O - Display selection list of online panels.

  Operand for B,P,O:
     Omit operand for complete selection list.
     Specify identifier or generic identifier for limited selection list.

  Enter END command to exit
```

This list describes the commands you can enter 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.

PRSETS

Displays a list of printer setup members that you can browse or delete in the database

Valid entries are P, PR, and PRSET.

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 you 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 with the commands shown on the Display Selection panel on the command line of the Primary Selection Menu panel.

Example

```
DISPLAY  PR
```

Enter this command stack on the command line of the Primary Selection Menu panel, to display a complete list of printer setup members in your database.

Browse Labels

When you display a banner page, printer setup, or panel member, you can assign and reassign labels to records in the member as points of reference and for searching for text strings.

A *label* is a movable 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
```

Use the LOCATE browse command, which is described later in this chapter, to go to and display a label.

Rules for Specifying Labels

When specifying labels, be aware that:

- A period must precede a label.

- A label can have from 1–7 characters.

- You can specify more than one label for each 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.

Setting a Label

To set a label to a record in a member, do the following:

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 is displayed when you enter the BANNERS, PRSETS, or PANELS command on the command line of the Display Selection panel.

This list describes the commands you can enter on the command line of the Browse panel.

Col

Displays column numbers at the top of a banner, printer setup, 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 defined in 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 shown below the 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
CCCCCC464FFFFFFFCCCCCC
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 to the left according to the distance defined in 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:

- 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 to the right according to the distance defined in the scroll field

UP

Scrolls up according to the distance defined in 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 this list.

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 in this chapter.

Quoted string

Searches for a string that includes special characters or blanks

Enclose the text string 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'

Specify only hexadecimal characters (0–9 and A–F), and specify an even number of characters.

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 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

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 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 a text string of characters (enclosed in quotation marks).

Example:

FIND T'Total'

Finds the text strings TOTAL, Total, and total, and TOTALS, Totals, and totals, and so on

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 disregards case as it performs the search, The result is that 'This', 'THIS', and 'this' are treated 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 search that recognizes the differences in case. The result is that 'This', 'THIS', and 'this' are treated 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 that allows you to specify the direction to search or restrict the number of instances you want to find. These parameters are summarized in this 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 have to specify NEXT, because text is searched in this direction by default.

PREV

Finds the previous instance of the text string you specify based on the cursor:

- From the current cursor position (if the cursor is shown in the contents of a member)

- 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 specified text string, searching:

- From the first record in a member until the text string is found

- 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 list.

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-

Syntax Rules

Be aware of these options when you use 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

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 Deliver - Primary Selection for DELIVER.SYSTEM1 ---------------------------
 Command ===> DISPLAY

   A Active Display    - Display selection list of active reports or bundles.
   B Bundle Data       - Display bundle data.
   D Distribution Data - Display distribution data.
   J Job Data          - Display job data.
   R Report Data       - Display report data.

     Operands for A:
       B    - Display selection list of active bundles.
       R    - Display selection list of active reports (default).
       X    - Limit selection list to exceptions.
       PREV - Display selection list for previous cycle.

     Operand for B,D,J,R:
       Omit operand for complete selection list.
       Specify identifier to display data.
       Specify generic identifier for limited selection list.
       L    - For D only, display list of distribution lists.

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

2. Press Enter to display the Display Selection panel.

```
 CA Deliver ---------------- Display Selection Panel ---------------------------
 Command ===>

   B - Display selection list of banner pages.
   P - Display selection list of printer setup members.
   O - Display selection list of online panels.

   Operand for B,P,O:
    Omit operand for complete selection list.
    Specify identifier or generic identifier for limited selection list.

   Enter END command to exit
```

3. Enter **B** (Banner) on the command line of the Display Selection Panel.

```
CA Deliver --------------- Display Selection Panel --------------------------
Command ===> B

  B - Display selection list of banner pages.
  P - Display selection list of printer setup members.
  O - Display selection list of online panels.

  Operand for B,P,O:
   Omit operand for complete selection list.
   Specify identifier or generic identifier for limited selection list.

  Enter END command to exit



```

4. Press Enter to display the Banner Page Selection List panel.

```
CA Deliver -------------- Banner Page Selection List ------- Row 00001 of 00022
Command ===>                                              Scroll ===> PAGE

Sel  Name      ------ Last Modified -------
     BDFLTB    07/17/2013 19:58:36 RMOBLOAD
     BDFLTBL   07/17/2013 19:58:36 RMOBLOAD
     BDFLTD    07/17/2013 19:58:36 RMOBLOAD
     BDFLTDL   07/17/2013 19:58:36 RMOBLOAD
     BDFLTR    07/17/2013 19:58:36 RMOBLOAD
     BDFLTRL   07/17/2013 19:58:36 RMOBLOAD
     BNDLMAN1 07/17/2013 19:58:36 RMOBLOAD
     CNTLREC1 07/17/2013 19:58:36 RMOBLOAD
     CNTLREC2 07/17/2013 19:58:36 RMOBLOAD
     DEFAULT   07/17/2013 19:58:36 RMOBLOAD
     DEFAULTL 07/17/2013 19:58:36 RMOBLOAD
     DEFAULT1 07/17/2013 19:58:36 RMOBLOAD
     EMAIL     07/17/2013 19:58:36 RMOBLOAD
     EMAIL$LK 07/17/2013 19:58:36 RMOBLOAD
     EMAILPDF 07/17/2013 19:58:36 RMOBLOAD
     EMAILTXT 07/17/2013 19:58:36 RMOBLOAD
     SEPARATE 07/17/2013 19:58:36 RMOBLOAD
```

5. Enter **S** (Select) in the Sel column on the Banner Page Selection List panel next to banner page BDFLTB.

```
CA Deliver -------------- Banner Page Selection List ------- Row 00001 of 00022
Command ===>                                                Scroll ===> PAGE

Sel  Name     ------ Last Modified -------
 S   BDFLTB   07/17/2013 19:58:36 RMOBLOAD
     BDFLTBL  07/17/2013 19:58:36 RMOBLOAD
     BDFLTD   07/17/2013 19:58:36 RMOBLOAD
     BDFLTDL  07/17/2013 19:58:36 RMOBLOAD
     BDFLTR   07/17/2013 19:58:36 RMOBLOAD
     BDFLTRL  07/17/2013 19:58:36 RMOBLOAD
     BNDLMAN1 07/17/2013 19:58:36 RMOBLOAD
     CNTLREC1 07/17/2013 19:58:36 RMOBLOAD
     CNTLREC2 07/17/2013 19:58:36 RMOBLOAD
     DEFAULT  07/17/2013 19:58:36 RMOBLOAD
     DEFAULTL 07/17/2013 19:58:36 RMOBLOAD
     DEFAULT1 07/17/2013 19:58:36 RMOBLOAD
     EMAIL    07/17/2013 19:58:36 RMOBLOAD
     EMAIL$LK 07/17/2013 19:58:36 RMOBLOAD
     EMAILPDF 07/17/2013 19:58:36 RMOBLOAD
     EMAILTXT 07/17/2013 19:58:36 RMOBLOAD
     SEPARATE 07/17/2013 19:58:36 RMOBLOAD
```

6. Press Enter to display the contents of banner page BDFLTB.

    Now you can browse the contents of BDFLTB with any browse command.

7. When you finish browsing, enter **END** on the command line, and press Enter to return to the Banner Page Selection List panel.

8. Enter **D** (Delete) in the Sel column on the Banner Page Selection List panel next to banner page member BDFLTB.

```
CA Deliver -------------- Banner Page Selection List ------- Row 00001 of 00022
Command ===>                                                Scroll ===> PAGE

Sel  Name     ------ Last Modified -------
 D   BDFLTB   07/17/2013 19:58:36 RMOBLOAD
     BDFLTBL  07/17/2013 19:58:36 RMOBLOAD
     BDFLTD   07/17/2013 19:58:36 RMOBLOAD
     BDFLTDL  07/17/2013 19:58:36 RMOBLOAD
     BDFLTR   07/17/2013 19:58:36 RMOBLOAD
     BDFLTRL  07/17/2013 19:58:36 RMOBLOAD
     BNDLMAN1 07/17/2013 19:58:36 RMOBLOAD
     CNTLREC1 07/17/2013 19:58:36 RMOBLOAD
     CNTLREC2 07/17/2013 19:58:36 RMOBLOAD
     DEFAULT  07/17/2013 19:58:36 RMOBLOAD
     DEFAULTL 07/17/2013 19:58:36 RMOBLOAD
     DEFAULT1 07/17/2013 19:58:36 RMOBLOAD
     EMAIL    07/17/2013 19:58:36 RMOBLOAD
     EMAIL$LK 07/17/2013 19:58:36 RMOBLOAD
     EMAILPDF 07/17/2013 19:58:36 RMOBLOAD
     EMAILTXT 07/17/2013 19:58:36 RMOBLOAD
     SEPARATE 07/17/2013 19:58:36 RMOBLOAD
```

9. Press Enter to display the Confirm Delete panel.

```
CA Deliver ------------------- Confirm Delete -------------------------------
Command ===>

Banner Page: BDFLTB


  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.

Note: The CONFIRM input command can enable or disable the display of the Confirm Delete panels.

10. Press Enter to delete the banner page member BDFLTB from the database and display the Banner Page Selection List panel.

11. Enter **RETURN** on the command line, and press Enter to display the Primary Selection Menu panel.

Display and Delete Printer Setup Members 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 Deliver - Primary Selection for DELIVER.SYSTEM1 ---------------------------
 Command ===> DISPLAY

   A Active Display    - Display selection list of active reports or bundles.
   B Bundle Data       - Display bundle data.
   D Distribution Data - Display distribution data.
   J Job Data          - Display job data.
   R Report Data       - Display report data.

     Operands for A:
       B    - Display selection list of active bundles.
       R    - Display selection list of active reports (default).
       X    - Limit selection list to exceptions.
       PREV - Display selection list for previous cycle.

     Operand for B,D,J,R:
       Omit operand for complete selection list.
       Specify identifier to display data.
       Specify generic identifier for limited selection list.
       L    - For D only, display list of distribution lists.

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

2. Press Enter to display the Display Selection panel.

```
 CA Deliver ---------------- Display Selection Panel ---------------------------
 Command ===>

   B - Display selection list of banner pages.
   P - Display selection list of printer setup members.
   O - Display selection list of online panels.

   Operand for B,P,O:
    Omit operand for complete selection list.
    Specify identifier or generic identifier for limited selection list.

   Enter END command to exit
```

3. Enter **P** (Printer Setup) on the command line of the Display Selection Panel.

```
CA Deliver ---------------- Display Selection Panel --------------------------
Command ===> P

  B - Display selection list of banner pages.
  P - Display selection list of printer setup members.
  O - Display selection list of online panels.

  Operand for B,P,O:
     Omit operand for complete selection list.
     Specify identifier or generic identifier for limited selection list.

  Enter END command to exit
```

4. Press Enter to display the Printer Setup Selection List panel.

```
CA Deliver ------------- Printer Setup Selection List ------ Row 00001 of 00008
Command ===>                                                  Scroll ===> PAGE

Sel  Name      ------ Last Modified -------
     DJDE      07/17/2013 19:42:50 RMOPLOAD
     HEX5A     07/17/2013 19:42:50 RMOPLOAD
     PME       07/17/2013 19:42:50 RMOPLOAD
     PRNTSETP  07/17/2013 19:42:50 RMOPLOAD
     XEROX     07/17/2013 19:42:50 RMOPLOAD
****************************** Bottom of Data ********************************
```

5. Enter **S** (Select) in the Sel column on the Printer Setup Selection List panel.

```
CA Deliver ------------- Printer Setup Selection List ------ Row 00001 of 00008
Command ==>                                               Scroll ==> PAGE

Sel  Name       ------ Last Modified -------
 S   DJDE       07/17/2013 19:42:50 RMOPLOAD
     HEX5A      07/17/2013 19:42:50 RMOPLOAD
     PME        07/17/2013 19:42:50 RMOPLOAD
     PRNTSETP   07/17/2013 19:42:50 RMOPLOAD
     XEROX      07/17/2013 19:42:50 RMOPLOAD
***************************** Bottom of Data *****************************
```

6. Press Enter to display the contents of printer setup member DJDE.

   Now you can browse the contents of DJDE with any browse command you choose.

7. When you are finished browsing, enter **END** on the command line, and press Enter to return to the Printer Setup Selection List panel.

8. Enter **D** (Delete) in the Sel column on the Printer Setup Selection List panel next to setup member PME.

```
CA Deliver ------------- Printer Setup Selection List ------ Row 00001 of 00008
Command ==>                                               Scroll ==> PAGE

Sel  Name       ------ Last Modified -------
     DJDE       07/17/2013 19:42:50 RMOPLOAD
     HEX5A      07/17/2013 19:42:50 RMOPLOAD
 D   PME        07/17/2013 19:42:50 RMOPLOAD
     PRNTSETP   07/17/2013 19:42:50 RMOPLOAD
     XEROX      07/17/2013 19:42:50 RMOPLOAD
***************************** Bottom of Data *****************************
```

9. Press Enter to display the Confirm Delete panel.

```
CA Deliver -------------------- Confirm Delete -------------------------------
Command ===>

PRSET Member: PME


  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.

Note: The CONFIRM input command can enable or disable the display of the Confirm Delete panels.

10. Press Enter to delete the printer setup member PME from the database and display the Printer Setup Selection List panel.

11. 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 Deliver - Primary Selection for DELIVER.SYSTEM1 ----------------------------
Command ===> DISPLAY

  A Active Display    - Display selection list of active reports or bundles.
  B Bundle Data       - Display bundle data.
  D Distribution Data - Display distribution data.
  J Job Data          - Display job data.
  R Report Data       - Display report data.

    Operands for A:
      B    - Display selection list of active bundles.
      R    - Display selection list of active reports (default).
      X    - Limit selection list to exceptions.
      PREV - Display selection list for previous cycle.

    Operand for B,D,J,R:
      Omit operand for complete selection list.
      Specify identifier to display data.
      Specify generic identifier for limited selection list.
      L    - For D only, display list of distribution lists.

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

2. Press Enter to display the Online Panel Selection List panel.

```
CA Deliver -------------- Online Panel Selection List ------ Row 00001 of 00509
Command ===>                                              Scroll ===> PAGE

Sel  Name      ------ Last Modified -------
     RMOJCLB  06/12/2013 18:10:55 RMOOLOAD
     RMOJCLO  06/12/2013 18:10:55 RMOOLOAD
     RMOPISDB 05/24/2013 15:19:44 RMOOLOAD
     RMOPISV2 05/24/2013 15:19:44 RMOOLOAD
     RMOPTB   05/24/2013 15:19:44 RMOOLOAD
     RMOPTBA1 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBA2 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBB1 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBC1 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDA 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDB 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDC 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDD 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDE 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDF 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDG 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDH 05/24/2013 15:19:44 RMOOLOAD
```

3. Enter **S** (Select) In the Sel column on the Online Panel Selection List panel next to member RMOJCLO.

```
CA Deliver -------------- Online Panel Selection List ------ Row 00001 of 00509
Command ===>                                                  Scroll ===> PAGE

Sel  Name      ------ Last Modified -------
     RMOJCLB  06/12/2013 18:10:55 RMOOLOAD
 S   RMOJCLO  06/12/2013 18:10:55 RMOOLOAD
     RMOPISDB 05/24/2013 15:19:44 RMOOLOAD
     RMOPISV2 05/24/2013 15:19:44 RMOOLOAD
     RMOPTB   05/24/2013 15:19:44 RMOOLOAD
     RMOPTBA1 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBA2 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBB1 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBC1 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDA 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDB 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDC 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDD 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDE 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDF 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDG 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDH 05/24/2013 15:19:44 RMOOLOAD
```

4. Press Enter to display the contents of online panel member RMOJCLO.

   Now you can browse the contents of RMOJCLO with any browse command you choose.

5. When you finish browsing, enter **END** on the command line, and press Enter to display the Online Panel Selection List panel.

6. Enter **D** (Delete) in the Sel column on the Online Panel Selection List next to member RMOJCLO.

```
CA Deliver -------------- Online Panel Selection List ------ Row 00001 of 00509
Command ===>                                                  Scroll ===> PAGE

Sel  Name      ------ Last Modified -------
     RMOJCLB  06/12/2013 18:10:55 RMOOLOAD
 D   RMOJCLO  06/12/2013 18:10:55 RMOOLOAD
     RMOPISDB 05/24/2013 15:19:44 RMOOLOAD
     RMOPISV2 05/24/2013 15:19:44 RMOOLOAD
     RMOPTB   05/24/2013 15:19:44 RMOOLOAD
     RMOPTBA1 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBA2 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBB1 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBC1 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDA 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDB 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDC 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDD 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDE 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDF 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDG 05/24/2013 15:19:44 RMOOLOAD
     RMOPTBDH 05/24/2013 15:19:44 RMOOLOAD
```

7. Press Enter to display the Confirm Delete panel.

```
CA Deliver -------------------- Confirm Delete -------------------------------
Command ===>

Panel: RMOJCLO


  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.

– Use the CONFIRM input command to enable or disable the display of the Confirm Delete panels.

8. Press Enter to delete the online panel member RMOJCLO from the database and display the Online Panel Selection List panel.

9. Enter **RETURN** on the command line and press Enter to display the Primary Selection Menu panel.

Chapter 16: Defining a Distribution List

This section describes how to define and use a distribution list with CA Deliver, including the following:

- Define a distribution list

- Assign a distribution list to a report

- Specify overrides for distribution list

- Display reports for a distribution identifier

- Display distribution identifiers associated distribution list

- Recommendations for using distribution lists

This section contains the following topics:

What is a Distribution List?

A *distribution list* contains a list of recipients, known as distribution identifiers, who receive reports. A distribution list looks similar to the report distribution specifications, but allows identification and reference of a list of recipients externally from the report.

If several reports are distributed to or viewed by the same people, a distribution list could be created and referenced by the reports instead of adding each individual to each report. Additionally, if the distribution requirements change over time, individuals can be easily added, changed, or removed from the distribution list, which automatically changes the distribution and viewing requirements of the associated reports.

The name of a distribution list is similar to a distribution identifier but is defined to contain distribution specifications instead of distribution data. The distribution list name is assigned to a report the same as a distribution identifier.

The distribution lists and distribution identifiers appear together in the same distribution selection list display. Because of this, a distribution list and distribution identifier cannot have the same name. You have to establish and adhere to a convention for naming distribution lists and distribution identifiers to avoid inconsistency and confusion among users.

Example

The following panel shows an example of a distribution list:

```
CA Deliver - Distribution List (1) ----------------------- Row 00001 of 00008
Command ===>                                              Scroll ===> PAGE

  ID    ---> D29LIST
  Desc  ===> DEPARTMENT 29 LIST

 Distribution Specifications:                            Writer/   Days
Sel Grp Distribution ID              Out Dest            Eformat   MTWTFSS
        D29ACCT                      Y   ACCT            COLOR     YYYYYYY
        D29MGR                       Y                             YYYYYYY
        D29AP                        Y   PRT12                      YYYYYYY
        D29SMG01                     N                             YYYYYYY
        D29SMG02                     N                             YYYYYYY
        D29SMG03                     N                             YYYYYYY
        D29PRES                      Y   PRT27                     YYYYYYY
***************************** Bottom of Data *******************************

```

This list describes the fields on the Distribution List panels:

Desc

Used to enter the 1- to 40-character description of the distribution list

This description field is displayed in the Address Line field on the Distribution Selection List panel.

Sel

Used to enter tabular commands in this column

Tabular commands are provided to copy, delete, insert, move, repeat, and select distribution specification entries.

Grp

Indicates that the distribution identifier is grouped with the previous identifier

Enter any character or leave this field blank to indicate that the distribution identifier is not to be grouped.

Distribution ID

Identifies the report recipient

Out

Specifies whether output is to be printed, tracked, or untracked for view only

Valid values are as follows:

T - Creates tracked, view only output

Y - Creates printed output

N - Creates view only output (not printed or tracked)

E - Sends email notification to recipient

Dest

Specifies a destination where to print the report

Blank - Accepts the value specified in the JCL. Blank is the default

Writer/ EFORMAT

The name of an external writer to process the report. If you specify:

Blank

The value specified on the Distribution Data panel or in the JCL is used to create the report

*

The external writer name specified in the JCL for the job that creates the report is ignored, and the report will be printed without the external writer.

For reports that are being emailed (Out field set to E), this field specifies:

- The name of the EFORMAT member to be used to format the email notification.

- If omitted, the EFORMAT member defined to the distribution identifier or defined on the EFORMAT initialization parameter is used.

Days MTWTFSS

Specifies the days of the week from Monday to Sunday that printed output or email notification can be generated

Valid values for each of the days of week are as follows:

Y - Allows printed output or email notification

N - Prevents printed output or email notification

The default for days is YYYYYYY.

The day of the week by default is based on the day that the job was submitted and the setting of the BEGINDAY initialization parameter. Jobs submitted before the BEGINDAY setting are considered part of the previous day's cycle.

Copies

Specifies the number of printed copies of the report to be sent to the recipient

Enter an asterisk to accept the value in the JCL.

This field appears on Distribution List (2) panel.

Rview

Specifies whether the recipient has restricted viewing privileges for the report within CA View that provides viewing through unsecured logical views and prevents the use of the VIEW command

Valid values are Y, N, or blank.

This field appears on Distribution List (2) panel.

Reprt

Specifies whether recipients can reprint the report within CA View

Valid values are Y, N, or blank.

This field appears on Distribution List (2) panel.

Del

Specifies whether recipients can delete the archived version of the report or alter the archive status within CA View

Valid values are as follows:

Y - Permits recipients to delete the archived version of the report or alter the archive status

N - Prevents recipients from deleting the report or altering the archive status

This field appears on Distribution List (2) panel.

Note: Enter the **LEFT** command (or press PF10 or PF22) or **RIGHT** command (or press PF11 or PF23) to toggle between the panels.

What is a Nested Distribution List?

A distribution list can contain a list of recipients and references to other distribution lists. The nesting of distribution lists provides a flexible and more dynamic method of defining distribution structures. The nested references are resolved to the distribution IDs and all resolved IDs participate in the report processing as described or as overridden.

Assigning a Distribution List to a Report

A distribution list is assigned to report distribution specifications the same as a distribution identifier. A distribution list, however, must be predefined before being added to a report.

The destination, writer, output indicator, view restriction indicator, reprint indicator, and delete indicator specified in the report distribution specifications can override corresponding specifications in the distribution list.

These overrides are discussed later in the section Overriding Distribution List Specifications. When the report distribution specifications include the name of a distribution list, the report is distributed to the contents of the distribution list.

Example

The following example references the D29LIST distribution list in a report:

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00005
Command ===>                                           Scroll ===> PAGE
  ID    ---> U90586-R01                       Job    ---> U90586
  Step  ---> SALESTEP     Procstep --->        DD     ---> SALESRPT
                                               Type   ---> STACK
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID              Out Dest          Eformat  MTWTFSS
        FICHE                          Y                        YYYYYYY
        D29LIST                        N                        YYYYYYY


***************************** Bottom of Data ******************************
```

Overriding Distribution List Specifications

You can override distribution list specifications in two ways:

- A distribution identifier in the report distribution specifications overrides the same distribution identifier in a distribution list. The override distribution id must follow the distribution list entry in Report Definition Attributes - Distribution Specifications.

- The destination, writer, output indicator, view restriction indicator, reprint indicator, and delete indicator specified in the report distribution specifications might override corresponding specifications in the distribution list. The override distribution id must follow the distribution list entry in Report Definition Attributes - Distribution Specifications.

Example

To illustrate these overrides, assume that we have a report, U90586-R05, that has the same recipients as several other U90586 reports except that the distribution requirements are slightly different:

- The recipients are contained in a distribution list named D29LIST.

- The U90586-R05 report has to be printed only for the department president, D29PRES.

To be able to use the distribution list, D29LIST, we must disable printing for all of the distribution identifiers in the distribution list except D29PRES.

We can redefine the whole list of recipients to the report and avoid using the distribution list, but the following overrides too can accomplish the task.

- First, send a printed copy of the report to the department president by including distribution identifier, D29PRES, in the report distribution specification.

- Second, disable the output for the distribution list, D29LIST, by specifying "N" in the output field.

The following example references the distribution list D29LIST, in a report

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00005
Command ===>                                            Scroll ===> PAGE
  ID    ---> U90586-R01                    Job    ---> U90586
  Step  ---> SALESTEP     Procstep --->    DD     ---> SALESRPT
                                           Type   ---> STACK
 Distribution Specifications:                        Writer/   Days
Sel Grp Distribution ID            Out Dest          Eformat  MTWTFSS
        FICHE                       Y                         YYYYYYY
        D29LIST                     N                         YYYYYYY
        D29PRES                     Y  PRT99          SECRTY
****************************** Bottom of Data ******************************
```

This table identifies the overrides that occur when destination, writer, output indicator, view restriction indicator, reprint indicator, and delete indictor specifications are specified for a distribution list in a report.

Note: The group indicator and copies are ignored for distribution list references.

Report Distribution Specification	Distribution List Specification	Resulting Specification
No destination	No destination	Sends report to the destination defined in the distribution data for the distribution identifier or, if blank, the destination in the JCL used to create the report
No destination	Destination specified	Sends report to the destination defined in the distribution list
Destination specified	No destination	Sends report to the destination defined in the report distribution specification
Destination specified	Destination specified	Sends report to the destination defined in the report distribution specification
No writer	No writer	Uses the writer defined in the distribution data for the distribution identifier or, if blank, the writer in the JCL used to create the report
No writer	Writer specified	Uses the writer defined in the distribution list

Report Distribution Specification	Distribution List Specification	Resulting Specification
Writer specified	No writer	Uses the writer defined in the report distribution specification
Writer specified	Writer specified	Uses the writer defined in the report distribution specification
Out=N	Out=N	No printed output is produced and the output is not tracked
Out=N	Out=T	No printed output is produced and the output is not tracked
Out=N	Out=Y	No printed output is produced and the output is not tracked
Out=N	Out=E	No email notification and the output is not tracked
Out=T	Out=N	No printed output is produced and the output is not tracked
Out=T	Out=T	No printed output is produced but tracking information is retained
Out=T	Out=Y	No printed output is produced but tracking information is retained
Out=T	Out=E	No email notification and output but tracking information is retained
Out=Y	Out=N	No printed output is produced and the output is not tracked
Out=Y	Out=T	No printed output is produced but tracking information is retained
Out=Y	Out=Y	Output is produced and tracked
Out=Y	Out=E	Email notification is created and tracked
Out=E	Out=N	No email notification and the output is not tracked
Out=E	Out=T	No email notification but tracking information is retained
Out=E	Out=Y	Email notification is created and tracked
Out=E	Out=E	Email notification is created and tracked
Rview=N	Rview=N	User can access the report in CA View with any logical view

Report Distribution Specification	Distribution List Specification	Resulting Specification
Rview=N	Rview=Y	User can access the report in CA View with non-security logical views and cannot use the VIEW command to alter views
Rview=Y	Rview=N	User can access the report in CA View with non-security logical views and cannot use the VIEW command to alter views
Rview=Y	Rview=Y	User can access the report in CA View with non-security logical views and cannot use the VIEW command to alter views
Reprt=N	Reprt=N	User cannot reprint the CA View report
Reprt=N	Reprt=Y	User cannot reprint the CA View report
Reprt=Y	Reprt=N	User cannot reprint the CA View report
Reprt=Y	Reprt=Y	User can reprint the CA View report
Del=N	Del=N	User cannot delete the CA View report
Del=N	Del=Y	User cannot delete the CA View report
Del=Y	Del=N	User cannot delete the CA View report
Del=Y	Del=Y	User can delete the CA View report
Days	Days	Printed output, email notification, and tracking is permitted if the individual day in both specifications is Y (yes).

Considerations for Referencing a Distribution List

When referencing a distribution list in the report distribution specifications, we recommend the following specifications:

- Leave destination and writer blank to default to the distribution list destination and writer specification.

- If the distribution list contains view-only distribution identifiers, specify N in the output indicator field of the report distribution specifications. This is recommended to avoid list expansion during report distribution.

- Unless you want to override, specify a view-restriction indicator of N, a reprint indicator of Y, and a delete indicator of Y to use the specification in the distribution list.

Defining and Using a Distribution List

Important! Use a test database to follow this procedure so that you do not inadvertently change or lose data in your production database.

This list summarizes the steps needed to define a distribution list. From the Primary Selection Menu panel:

■ Step 1: Define a Distribution List

■ Step 2: Define a Job

■ Step 3: Identify the Reports for the Job

■ Step 4: Specify Report Definition Attributes

■ Step 5: Change a Distribution List

Note: Any lowercase characters you enter on the panel are automatically converted to uppercase.

Scenario

In this scenario, we have a new job that was recently added into production. The job has three steps that produce three sales reports, and all the reports are sent to the same personnel.

Your manager asks you to add a job as follows:

■ The name for this job is U90955.

■ The Stepnames are:

– SALESTP1

– SALESTP2

– SALESTP3

■ The DDname is SALESRPT.

■ The names (or identifiers) of the reports are:

– U90955-R01

– U90955-R02

– U90955-R03

■ Distribute five copies of the reports to:

– Microfiche

– The production supervisor, who ensures that the reports are reviewed

– Accounts payable

- Sales accounting

- The Vice President of sales

  The Vice President does not need a printed copy of the reports but wants to view the reports through CA Output Management (OM) Web Viewer.

  Note: For simplicity, a distribution list is created to reference the recipients who were previously defined.

■ Mark the report late if it is not completed by 8:00 a.m.

■ Archive the report.

Step 1: Define a Distribution List

The first step is to define a distribution list to contain the recipients for the reports.

1. On the command line of the Primary Selection Menu panel, enter **D**, a space then **D55LIST** (which is the distribution list you assign) followed by **L**.

```
CA Deliver - Primary Selection for DELIVER.SYSTEM1 ----------------------------
Command ===> D D55LIST L

 A Active Display   - Display selection list of active reports or bundles.
 B Bundle Data      - Display bundle data.
 D Distribution Data - Display distribution data.
 J Job Data         - Display job data.
 R Report Data      - Display report data.

   Operands for A:
     B    - Display selection list of active bundles.
     R    - Display selection list of active reports (default).
     X    - Limit selection list to exceptions.
     PREV - Display selection list for previous cycle.

   Operand for B,D,J,R:
     Omit operand for complete selection list.
     Specify identifier to display data.
     Specify generic identifier for limited selection list.
     L    - For D only, display list of distribution lists.

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

2. Press Enter to display the Distribution List panel for your new distribution list.

```
CA Deliver - Distribution List (1) ------------------------ Row 00001 of 00010
Command ===>                                               Scroll ===> PAGE

  ID ---> D55LIST
  Desc ===>

 Distribution Specifications:                              Writer/   Days
Sel Grp Distribution ID                 Out Dest           Eformat  MTWTFSS




****************************** Bottom of Data ******************************
```

3. Enter a description for the distribution list, **DEPARTMENT 55 LIST**, and the five recipients.

   Note: The Vice President does not want a printed report.

```
CA Deliver - Distribution List (1) ------------------------ Row 00001 of 00010
Command ===>                                               Scroll ===> PAGE

  ID      ---> D55LIST
  Desc    ===> DEPARTMENT 55 LIST

 Distribution Specifications:                              Writer/   Days
Sel Grp Distribution ID                 Out Dest           Eformat  MTWTFSS
        FICHE                           Y
        D55PROD                         Y
        D55AP                           Y
        D55ACCTLIST                     Y
        D55VPRES                        N
****************************** Bottom of Data ******************************
```

   Note: The distribution ID D55ACCTLIST is a list and demonstrates the ability to nest distribution lists. A distribution list can contain another distribution list.

4. Enter **END** on the command line, and press Enter to save the Distribution List.

   The message

   `Distribution list saved`

   displays in the short message area.

If the distribution identifier has not been defined, a Distribution Data for Distid panel is displayed.

Enter the Destination information (for example, a printer class) and delivery information, such as a name, title, and location.

```
CA Deliver - Distribution Data for Distid: D55VPRES --------------------------
Command ===>

Destination:

  Dest    ===>                    CA Connect Node ===> NO  ( YES or NO )
  Writer  ===>
  Class   ===>
  Email   ===>
  EFormat ===>
  WebSvr  ===>

Distribute to:
   ===>
   ===>
   ===>
   ===>
   ===>
   ===>
   ===>
   ===>
   ===>

Enter END on the command line to save the distribution information.
```

Step 2: Define a Job

Next you define the job that creates the reports. The name of the job is U90955.

1. On the command line of the Primary Selection Menu panel, enter **J**, a space and the job name **U90955**.

```
 CA Deliver - Primary Selection for DELIVER.SYSTEM1 ----------------------------
 Command ===> J U90955

   A Active Display   - Display selection list of active reports or bundles.
   B Bundle Data      - Display bundle data.
   D Distribution Data - Display distribution data.
   J Job Data         - Display job data.
   R Report Data      - Display report data.

     Operands for A:
        B    - Display selection list of active bundles.
        R    - Display selection list of active reports (default).
        X    - Limit selection list to exceptions.
        PREV - Display selection list for previous cycle.

     Operand for B,D,J,R:
        Omit operand for complete selection list.
        Specify identifier to display data.
        Specify generic identifier for limited selection list.
        L    - For D only, display list of distribution lists.

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

2. Press Enter to display the Reports for Job panel.

```
 CA Deliver --------------- Reports for Job: U90955 -------- Row 00001 of 00010
 Command ===>                                              Scroll ===> PAGE

  Desc    ===>
  Prevrun ===>

 Sel Stepname Procstep DDname     Report ID                    Type  Prevrun




 ****************************** Bottom of Data ******************************
```

Note: Both PREVRUN fields shown on the Reports for Job panel work only when CA 11 is installed and set up for use with CA Deliver at your site.

Step 3: Identify the Reports for the Job

This section describes how to identify the reports produced by a job. Recall that the step names for the job are SALESTP1, SALESTP2, and SALESTP3, the DDname is SALESRPT, and the report names are U90955-R01, U90955-R02, and U90955-R03.

1. On the Reports for Job panel, after the Desc field prompt, enter:

    a. SALES QUARTERLY REPORTS.

    b. SALESTP1 under Stepname.

    c. SALESRPT under DDname.

    d. U90955-R01 under Report ID.

2. Enter the remaining two reports the same way with the corresponding Stepname, DDname, and Report ID fields.

    Note: Leave the Type field blank to indicate that you want to use the default (a basic report).

```
CA Deliver ---------------- Reports for Job: U90955 -------- Row 00001 of 00010
Command ===>                                              Scroll ===> PAGE

 Desc    ===> SALES QUARTERLY REPORTS
 Prevrun ===>

Sel Stepname Procstep DDname     Report ID                    Type  Prevrun
    SALESTP1          SALESRPT   U90955-R01
    SALESTP2          SALESRPT   U90955-R02
    SALESTP3          SALESRPT   U90955-R03




****************************** Bottom of Data ******************************
```

3. Press Enter to display the Report Definition Attributes panel for the first report, U90955-R01.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>

  ID    ---> U90955-R01                        Job    ---> U90955
  Step  ---> SALESTP1     Procstep --->         DD     ---> SALESRPT
                                                Type   --->

  Desc   ===>
  Arch ID ===>

Attributes:
  ARCH  ===>              BANNER ===>           BURST  ===>
  CC    ===>              CLASS  ===>           COPIES ===>
  FCB   ===>              FORM   ===>           FLASH  ===> (   ,   )
  LATE  ===>              OPTCDJ ===>           UCS    ===>
  FORMDF ===>             PAGEDF ===>           PRMODE ===>
  PRSET ===>              PRTY   ===>           GRPID  ===>
  CHARS ===> (      ,      ,      ,       )     MODIFY ===> (   ,   )
  COPYG ===> (     ,     ,     ,     ,     ,     ,     ,     )


The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.       D - Distribution specifications.
     I - Special instructions.        T — Report identification text.
```

Step 4: Specify Report Definition Attributes

Recall that you were instructed to archive the report and you were to mark the report late if it is not completed by 8:00 a.m. This section describes how to specify those report definition attributes.

1. On the Report Definition Attributes panel, enter SALES QUARTERLY REPORT 1 in the Desc field.

2. Enter 1 in the ARCH field to specify that the report is to be archived.

3. Enter **08:00** in the LATE field, and press Enter.

    Specifying a late time of 08:00 does not ensure that this report is queued by 8:00 a.m. If the report is queued after 8:00 a.m., the report is flagged on the Active Report List panel.

    Note: Values specified in the JCL for the job and as initialization parameters are used because you left the remaining fields on the panel blank. The default banner page at your site is used because you left the BANNER field blank.

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ==>

  ID    ---> U90955-R01                        Job    ---> U90955
  Step  ---> SALESTP1    Procstep --->          DD     ---> SALESRPT
                                                Type   --->

  Desc    ==> SALES QUARTERLY REPORT 1
  Arch ID ==>

Attributes:
  ARCH   ==> 1          BANNER ==>              BURST  ==>
  CC     ==>            CLASS  ==>              COPIES ==>
  FCB    ==>            FORM   ==>              FLASH  ==> (   ,  )
  LATE   ==> 08:00      OPTCDJ ==>              UCS    ==>
  FORMDF ==>            PAGEDF ==>              PRMODE ==>
  PRSET  ==>            PRTY   ==>              GRPID  ==>
  CHARS  ==> (     ,      ,     ,     )         MODIFY ==> (  ,  )
  COPYG  ==> (     ,     ,    ,    ,    ,    ,    ,    )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

     B - Bundle specifications.      D - Distribution specifications.
     I - Special instructions.       T — Report identification text.
```

4. Enter **D** on the command line, and press Enter to display the Distribution
    Specifications subpanel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ==>                                             Scroll ==> PAGE

  ID    ---> U90955-R01                        Job    ---> U90955
  Step  ---> SALESTP1    Procstep --->          DD     ---> SALESRPT
                                                Type   --->
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID              Out Dest          Eformat   MTWTFSS




****************************** Bottom of Data ******************************
```

5. Enter the distribution list, **D55LIST**, in the Distribution ID field, and press Enter.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010
Command ==>                                             Scroll ==> PAGE

  ID     ---> U90955-R01                        Job    ---> U90955
  Step   ---> SALESTP1     Procstep --->         DD     ---> SALESRPT
                                                 Type   --->
 Distribution Specifications:                           Writer/   Days
Sel Grp Distribution ID              Out Dest           Eformat   MTWTFSS
        D55LIST




****************************** Bottom of Data ******************************
```

Enter the **LEFT** system-wide command (or press PF10 or PF22) or the **RIGHT** system-wide command (or press PF11 or PF23) to toggle between the panels.

Leave the remaining fields on the subpanels blank to specify these default settings:

GRP

Keeps this report separate from the previous report

OUT

Creates printed output for the recipient and tracks the report

DEST

Uses the report destination specified in the JCL

WRITER/ EFORMAT

Uses the name of the external writer to process the report

Days   MTWTFSS

Permits printed output and email notification all days of the week

COPIES

Prints only one copy of the report per distribution identifier

This field appears on the Distribution Specification (2) panel.

RVIEW

Allows others to select any view of this report and to use the view command

This field appears on the Distribution Specification (2) panel.

REPRT

Allows others to reprint this report

This field appears on the Distribution Specification (2) panel.

DEL

Allows others to delete this report

This field appears on the Distribution Specification (2) panel.

6. Enter **END** on the command line and press Enter to display the Report Definition Attributes panel.

In addition to distribution specification, special instructions can be added to a report by entering the **I** command from any Report Definition Attributes panel.

Special instructions appear on the banner pages that encapsulate the report.

7. Enter **END** on the command line of the Report Definition Attributes panel to save report U90955-R01.

    The Report Definition Attributes panel for the second report, U90955-R02, is displayed.

8. Repeat Steps 1 through 7 to add the archival specification, late time, and distribution specification for reports U90955-R02 and
    U90955-R03.

9. Enter **END** on the command line and press Enter to display the Reports for Job panel.

    The message U90955-R03 SAVED is displayed in the short message area, and the message *ADDED* is displayed in the Reports for Job panel message area for all reports. The reports you defined are added to the database.

10. Enter **END** on the command line and press Enter to display the Primary Selection Menu panel.

    The message U90955 SAVED is displayed in the short message area.

    The job is added to the database. You have completed your definitions to the database.

Step 5: Change a Distribution List

Somehow, the Sales President was overlooked and has to view the reports through CA Output Management (OM) Web Viewer like the Vice President.

Follow these steps to make the changes that allow the Sales President, D29PRES, to view the reports.

1. On the command line of the Primary Selection Menu panel, enter **D**, a space, and then **D29LIST** (which is the distribution list you assigned).

    Note: The L operand on the D command is only needed when you are creating a distribution list. This operand can be omitted when you are displaying an existing distribution list.

```
CA Deliver - Primary Selection for DELIVER.SYSTEM1 ----------------------------
Command ===> D D29LIST

  A Active Display    - Display selection list of active reports or bundles.
  B Bundle Data       - Display bundle data.
  D Distribution Data - Display distribution data.
  J Job Data          - Display job data.
  R Report Data       - Display report data.

    Operands for A:
       B    - Display selection list of active bundles.
       R    - Display selection list of active reports (default).
       X    - Limit selection list to exceptions.
       PREV - Display selection list for previous cycle.

    Operand for B,D,J,R:
      Omit operand for complete selection list.
      Specify identifier to display data.
      Specify generic identifier for limited selection list.
      L    - For D only, display list of distribution lists.

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

2. Press Enter to display the Distribution List panel for your distribution list.

```
CA Deliver - Distribution List (1) ------------------------ Row 00001 of 00007
Command ===>                                               Scroll ===> PAGE

  ID      ---> D29LIST
  Desc    ===> DEPARTMENT 29 LIST

 Distribution Specifications:                             Writer/   Days
Sel Grp Distribution ID                  Out Dest         Eformat   MTWTFSS
        D29ACCT                          Y   ACCT         COLOR     YYYYYYY
        D29MGR                           Y                          YYYYYYY
        D29AP                            Y   PRT12                   YYYYYYY
        D29SMG01                         N                          YYYYYYY
        D29SMG02                         N                          YYYYYYY
        D29SMG03                         N                          YYYYYYY
        D29VPRES                         Y   PRT27                   YYYYYYY


****************************** Bottom of Data ******************************
```

3. Enter the **R** tabular command next to **D29VPRES** under Sel, and press Enter to repeat the line.

```
CA Deliver - Distribution List (1) ------------------------ Row 00001 of 00007
Command ===>                                              Scroll ===> PAGE

  ID     ---> D29LIST
  Desc   ===> DEPARTMENT 29 LIST

 Distribution Specifications:                           Writer/   Days
Sel Grp Distribution ID                Out Dest         Eformat   MTWTFSS
        D29ACCT                        Y   ACCT         COLOR     YYYYYYY
        D29MGR                         Y                          YYYYYYY
        D29AP                          Y   PRT12                  YYYYYYY
        D29SMG01                       N                          YYYYYYY
        D29SMG02                       N                          YYYYYYY
        D29SMG03                       N                          YYYYYYY
 R      D29VPRES                       Y   PRT27                  YYYYYYY

***************************** Bottom of Data ******************************
```

4. The Distribution List panel now displays two **D29VPRES** entries. Change the second distribution identifier **D29VPRES** to **D29PRES**.

```
CA Deliver - Distribution List (1) ------------------------ Row 00001 of 00008

Command ===>                                              Scroll ===> PAGE

  ID     ---> D29LIST
  Desc   ===> DEPARTMENT 29 LIST

 Distribution Specifications:                           Writer/   Days
Sel Grp Distribution ID                Out Dest         Eformat   MTWTFSS
        D29ACCT                        Y   ACCT         COLOR     YYYYYYY
        D29MGR                         Y                          YYYYYYY
        D29AP                          Y   PRT12                  YYYYYYY
        D29SMG01                       N                          YYYYYYY
        D29SMG02                       N                          YYYYYYY
        D29SMG03                       N                          YYYYYYY
        D29VPRES                       Y   PRT27                  YYYYYYY
        D29PRES                        N                          YYYYYYY
***************************** Bottom of Data ******************************
```

5. Enter **END** on the command line and press Enter to save the Distribution List.

    The message *Distribution list saved* displays in the short message area of the Distribution List panel.

    Because you changed the distribution list, the sales president now has access to all of the U90955 reports.

Reviewing the Results

You can test the delivery instructions you set up and review the results. This section explains the techniques you can use to review the setup of your reports.

Displaying Distribution XREF for a Report

1. On the command line of the Primary Selection Menu panel, enter **J U90955** and press Enter to display the Reports for Job panel, which contains a complete list of report identifiers for the job.

2. Enter **X** in the Sel column to the left of the report identifiers you want to see on the Reports for Job panel.

   Note: You can also issue the X tabular command on the Report Selection List panel.

```
CA Deliver --------------- Reports for Job: U90955 -------- Row 00001 of 00003
Command ===>                                              Scroll ===> PAGE

 Desc    ===> SALES QUARTERLY REPORTS
 Prevrun ===>

Sel Stepname Procstep DDname    Report ID                    Type  Prevrun
 X  SALESTP1          SALESRPT  U90955-R01
    SALESTP2          SALESRPT  U90955-R02
    SALESTP3          SALESRPT  U90955-R03
****************************** Bottom of Data ******************************
```

3. Press Enter to display the Distribution Xref for Report (1) panel.

```
CA Deliver - Distribution Xref for Report (1) -------------- Row 00001 of 00006
Command ===>                                              Scroll ===> PAGE

  ID     ---> U90955-R01
                                                      Writer/   Days
Sel Distribution ID              Out C Dest           Eformat  MTWTFSS
===> *                            *  * *              *        *
    D55ACCT                       Y
    D55AP                         Y
    D55PRES                       N
    D55PROD                       Y
    D55VPRES                      N
    FICHE                         Y
***************************** Bottom of Data ********************************
```

Enter the **LEFT** system-wide command (or press PF10 or PF22) or the **RIGHT** system-wide command (or press PF11 or PF23) to toggle between the panels.

Displaying Reports for a Distribution Identifier or a Distribution List

An alternate method for displaying and maintaining reports defined to a distribution identifier or distribution list can be accessed from the Distribution Selection List panel. This section explains the procedure for displaying the reports for a distribution identifier or a distribution list.

1. On the command line of the Primary Selection Menu panel, enter **D**, a space, and then **D55***.

```
CA Deliver - Primary Selection for DELIVER.SYSTEM1 ---------------------------
Command ===> D D55*

  A Active Display    - Display selection list of active reports or bundles.
  B Bundle Data       - Display bundle data.
  D Distribution Data - Display distribution data.
  J Job Data          - Display job data.
  R Report Data       - Display report data.

    Operands for A:
      B    - Display selection list of active bundles.
      R    - Display selection list of active reports (default).
      X    - Limit selection list to exceptions.
      PREV - Display selection list for previous cycle.

    Operand for B,D,J,R:
      Omit operand for complete selection list.
      Specify identifier to display data.
      Specify generic identifier for limited selection list.
      L    - For D only, display list of distribution lists.

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

Press Enter to display the Distribution Selection List panel for distribution identifiers and distribution lists starting with D55.

2. Enter **SR** under Sel to the left of distribution list D55LIST.

   Note: The **SR** tabular command can also be entered on the Distribution Lists with Distid panel, which is discussed later in the chapter.

```
CA Deliver ------------ Distribution Selection List (1) -----------------------
Command ===>                                              Scroll ===> PAGE

Sel Distribution ID            Line 1                              List
==> D55*                       *                                   *
    D55ACCT                    DEPT 55 - ACCOUNTANT
    D55AP                      DEPT 55 — ACCOUNTS PAYABLE
    D55FILE                    DEPT 55 — FILE ROOM
 SR D55LIST                    DEPT 55 — LIST                      YES
    D55PRES                    DEPT 55 - PRESIDENT
    D55PROD                    DEPT 55 — PRODUCTION SUPERVISOR
    D55SYSP1                   DEPT 55 - SYS PROG (BRIAN JONES)
    D55SYSP2                   DEPT 55 - SYS PROG (MARY SMITH)
    D55SYSP3                   DEPT 55 - SYS PROG (BILL BROWN)
    D55SYSP4                   DEPT 55 — SYS PROG (GEORGE JAMES)
    D55VPRES                   DEPT 55 — VICE PRESIDENT
***************************** Bottom of Data *****************************
```

Press Enter to display the Reports for Distid (1) panel.

3. Enter the **LEFT** system-wide command (or press PF10 or PF22) or the **RIGHT** system-wide command (or press PF11 or PF23) to toggle between the panels.

```
CA Deliver - Reports for Distid (1) ----------------------- Row 00001 of 00003
Command ===>                                               Scroll ===> PAGE

   ID     ---> D55LIST
                                                              Writer/
Days
Sel Report ID                  Out Dest          Eformat  MTWTFSS
    U90955-R01                  Y                          YYYYYYY
    U90955-R02                  Y                          YYYYYYY
    U90955-R03                  Y                          YYYYYYY
***************************** Bottom of Data *******************************
```

The distribution specifications for the displayed reports can now be modified by overtyping the desired fields.

4. Optionally, you can do the following with a distribution identifier or distribution list:

    –   Delete an entry

    –   Add an entry to a new report by inserting a new line and entering the report identifier and distribution specifications.

    When you press Enter, the changes are saved in the database.

Displaying a Distribution Identifier's Associated Distribution Lists

This section explains how to display the distribution lists that a distribution identifier is defined to.

1. On the command line of the Primary Selection Menu panel, enter **D**, a space, and **D55***.

```
CA Deliver - Primary Selection for DELIVER.SYSTEM1 ---------------------------
Command ===>

  A Active Display    - Display selection list of active reports or bundles.
  B Bundle Data       - Display bundle data.
  D Distribution Data - Display distribution data.
  J Job Data          - Display job data.
  R Report Data       - Display report data.

    Operands for A:
      B    - Display selection list of active bundles.
      R    - Display selection list of active reports (default).
      X    - Limit selection list to exceptions.
      PREV - Display selection list for previous cycle.

    Operand for B,D,J,R:
      Omit operand for complete selection list.
      Specify identifier to display data.
      Specify generic identifier for limited selection list.
      L    - For D only, display list of distribution lists.

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

Press Enter to display the Distribution Selection List panel for distribution identifiers and distribution lists starting with D55,

2. Enter **SL** under Sel to the left of distribution identifier D55ACCT.

```
CA Deliver ------------ Distribution Selection List (1) -----------------------
Command ===>                                              Scroll ===> PAGE

Sel Distribution ID            Line 1                              List
===> D55*                       *                                   *
 SL D55ACCT                    DEPT 55 - ACCOUNTANT
    D55AP                      DEPT 55 — ACCOUNTS PAYABLE
    D55FILE                    DEPT 55 — FILE ROOM
    D55LIST                    DEPT 55 — LIST                      YES
    D55PRES                    DEPT 55 - PRESIDENT
    D55PROD                    DEPT 55 — PRODUCTION SUPERVISOR
    D55SYSP1                   DEPT 55 - SYS PROG (BRIAN JONES)
    D55SYSP2                   DEPT 55 - SYS PROG (MARY SMITH)
    D55SYSP3                   DEPT 55 - SYS PROG (BILL BROWN)
    D55SYSP4                   DEPT 55 — SYS PROG (GEORGE JAMES)
    D55VPRES                   DEPT 55 — VICE PRESIDENT
****************************** Bottom of Data ******************************
```

Press Enter to display the Distribution Lists for Distid (1) panel.

3. Enter the **LEFT** system-wide command (or press PF10 or PF22) or the **RIGHT** system-wide command (or press PF11 or PF23) to toggle between the panels.

```
CA Deliver - Distribution List(s) for Distid (1) ----------- Row 00001 of 00001
Command ===>                                          Scroll ===> PAGE

  ID     ---> D55ACCT
Writer/   Days
Sel Distribution List            Out Dest            Eformat  MTWTFSS
    D55LIST                        N                           YYYYYYY
***************************** Bottom of Data ******************************
```

4. Optionally, you can overtype the values in the desired fields to modify the distribution specifications for the distribution lists.

   You can do the following with a distribution identifier:

   – Delete an entry

   – Add an entry to another distribution list by inserting a new line and entering the distribution list and distribution specifications.

   When you press Enter, the changes are saved in the database.

Note: From this panel, you can also display the reports that the distribution list is defined to by entering the **SR** tabular command under Sel.

Chapter 17: Setting Up Email and Email Notification

This section contains the following topics:

Overview

The reports that CA Deliver distributes for viewing to one or more recipients using CA View (mainframe product) or the CA Output Management (OM) Web Viewer (distributed product) can also be distributed by email with email notification. This feature uses the CA Spool Email Print Driver to deliver and track email sent by CA Deliver.

Note:

■ If this feature is not installed, you cannot use the CA Deliver email facility.

■ For more information about the CA Spool Email Print Driver, see the TCP/IP PrinterDirect, Email PrintDriver section in the *CA Spool Customization Guide*.

You can now define an email address and a Web Viewer server for each report recipient. CA Deliver can be set up so that when a report is processed, email messages are sent using CA Spool to:

■ Notify the recipients that the report is now available for viewing

■ Send the report data or an HTLM link to one or more recipients.

   Sending only the HTML link allows the users to select and view the report in CA OM Web Viewer .

The distribution grouping feature in CA Deliver currently allows several recipients to share a printed report copy. Email messaging uses this grouping indicator so that you can send one email to several email recipients.

This list summarizes the process to update CA Deliver for email and email notification:

1. Update the email parameters in RMOPARMS.

2. Define the email templates to new or existing banner pages.

3. Run RMODBASE to load the new banner pages.

4. Update the DISTID definitions with email distribution data.

5. Validate the address (optional).

6. Change the Report Distribution OUTPUT field to E to send the email for specific DISTIDs. This indicates the DISTID is requesting EMAIL rather than a printed copy.

These steps are described in detail in the following sections.

Note:

- CA Deliver does not directly archive Xerox and ACIF reports to CA View. These reports require further processing which is performed by the FSS collectors. In these cases the email can still be sent, but the HTML link cannot be included. In addition, reports must be archived directly to CA View to create the HTML link to the report in Web Viewer.

- When setting up the email printer drivers in CA Spool, the CA Spool administrator must use XFEROPT=2 to prevent emails from being combined

Step 1. Update the Email Parameters in the RMOPARMS Data Set

Modify the RMOPARMS data set to properly route your email messages to CA Spool, as follows:

- Add the new email parameters

- Update some of the existing parameters

Step 1a. Add the New Email Parameters

Add the following values to specify the work selection criteria for the CA Spool email print driver:

Parameter	Description
EFORMAT= xxxxxxxx	Specifies the name of the banner page that contains the default email format template which supplies the information specifying the text for the email and where CA Spool must deliver the message. **Note:** This value can be overridden at the DISTID level and also on the report level.
EMAILQ=class/ dest/form/ writer	Defines the default Class, DEST, Form, and Writer for all email messages sent by CA Deliver. These values route the email message to a CA Spool Email Print Driver. **Note:** If you have multiple CA Spool Email Print Drivers, you can use the EMAIL PARMS section of the email template to override these values. See the Considerations for Using Email with CA Spool section for more information.
WEBSVRn= weblink	Specifies 1 to 4 web links to the CA OM Web Viewer that are used to access an email attached report. If your enterprise has multiple CA OM Web Viewer Servers (maximum allowable is four), you must define the values you want to associate with the CA OM Web Viewers that you plan to use. This value is used as a component of the HTML WEBLINK and can be included on the email message. Specify the following: WEBSVR1=(The Default Web Server) WEBSVR2,3,4=(Specify the names to be associated with these Web Servers) Each distribution identifier (DISTID) is associated with a single CA OM Web Server. If no server is specified, WEBSVR1 is used. For example; WEBSVR1=HTTP://OMVIEWER.CA.COM WEBSVR2=HTTPS://OMVIEW.CA.COM WEBSVR3=VIEW.CA.COM (HTTP:// is assumed)

Considerations for Using Email with CA Spool

Review the CA Spool parameter deck to be sure that the values specified on the EMAILQ definition route the file to CA Spool for delivery.

CA Spool customers use several input interfaces. One or perhaps all of them are available at your site.

To process the report pre-spool, the Sysout Allocation Intercept can be used. That interface is controlled by the CA Spool parameters SUBS and SUBSCLAS.

By default, CA Spool checks the writer, if specified, to determine whether to intercept the allocation. Consider the following:

■ If no writer is found, the destination is used to determine whether to intercept.

To override this default, use these values: SUBS=DEST, SUBS=WRITER and SUBS=DESTFRST.

■ If SUBS=DESTCLASS or SUBS=CLASS is coded, make sure that the class specified in the first position of EMAILQ matches what is defined in SUBSCLAS or CA Spool bypasses the allocation and the file is written to the JES Spool.

Review the SUBS and SUBSCLAS parameters you have specified in the CA Spool parameter deck and their meanings in the CA Spool documentation to determine how best to code the EMAILQ values to use the Sysout Allocation Intercept to route your CA Deliver files to CA Spool.

To process the email message after it has been written to the JES Spool by CA Deliver, the CA Spool NJE interface or SAPI interface can be used.

To use the NJE interface, the destination specified in EMAILQ must be the CA Spool NJE node name and the writer value is the CA Spool printer node that has been defined to use the Email print driver (TCPDRIV=SMTP).

The SAPI interface is controlled by the XFER, XFERDEST, XFERCLAS, XFEROPT and XFERSAPI parameters. Be aware of the following:

■ Set XFERSAPI to yes so that all file attributes are preserved when the file is sent to CA Spool from the JES Spool.

■ Specify XFER=JESTOESF or YES to use this interface.

■ The XFERDEST, XFERCLAS and XFEROPT parameters define how CA Spool asks JES for files.

■ If XFERCLAS, and optionally, XFEROPT=6 is specified, make sure that the class specified in the first position of EMAILQ matches what is defined in XFERCLAS or CA Spool does not ask for the file that CA Deliver has written to the JES2 Spool.

Review the XFERDEST and XFEROPT parameters you have specified in the CA Spool parameter deck and their meanings in the *CA Spool Customization Guide* to determine how best to code the EMAILQ values to use the SAPI interface to collect the files that CA Deliver writes to the JES Spool.

Step 1b.Modify Existing RMOPARM Values

Modify the following portions of these initialization parameters:

Parameter	Description
ARCHnn= DIRECT/ database prefix/DRAS domain name	DRAS Domain Name is optional. The DRAS Domain Name identifies the ENF system identifier, DRAS server name, and View DRAS repository name that the CA OM Web Viewer uses to access an email attached report. This domain name and the Web Server link (WEBSRVn initialization parameter setting) are components of the HTML WEBLINK that can be included within an email message. The format of the domain name is:
	CCITASK.DRASTASK.DBNAME
	CCITASK— The ENF SYSID of the system where CCI is running
	DRASTASK— The name (unique identifier) of the DRAS task assigned on the DRASCFG configuration file SET SERVER ID(drasid) statement
	DBNAME— The repository name assigned to the View system by the DRAS task on the DRASCFG configuration file ACCESS REPOSITORY NAME(dbname) statement
	Example—CCITASK.DRASTASK.DBNAME
DEFOUT= EMAIL	Optionally, set the default OUT value when NEW recipients are added to the distribution specification for a report or distribution list.

Sample RMOPARMS Update

```
NAME=DELIVER.SYSTEME
EMAILQ=X///
EFORMAT=EMAIL
WEBSVR1=WWW.YOURSVR1.COM
WEBSVR2=WWW.YOURSVR2.COM
WEBSVR3=WWW.YOURSVR3.COM
WEBSVR4=WWW.YOURSVR4.COM
...
ARCH8=DIRECT//ENFSYS1.DRAS.VIEW115
```

Step 2. Define the Email Templates

Define the message templates which reside in the Model Banner Page library. We suggest that you set up the following templates:

■ EMAIL

The recipient is notified that the report is available.

■ EMAILTXT

The email is sent with the report attached as a text file.

■ EMAILPDF

The email is sent with the report attached as a PDF file.

■ EMAIL$LK

The email is sent with a HTML link to the report using CA OM Web Viewer releases before Version 12.0.

■ EMAIL$12

The email is sent with a HTML link to the report using the CA OM Web Viewer Version 12.0.

Sample email template members for EMAIL, EMAILTXT, EMAILPDF, EMAIL$LK, and EMAIL$12 are supplied in the Model Banner Page library CVDED133.

Note: You must have at least one member that matches the value you supplied in the EFORMAT initialization parameter in RMOPARMS.

Email Template Sections

Email templates contain two sections that can be added to any standard CA Deliver banner page template or you can create a member that only contains these sections – EMAIL PARMS and EMAIL TEXT.

The EMAIL PARMS section has parameters that perform two functions:

■ Route the email message to the CA SPOOL task for email processing using the CLASS, DEST, FORMS, and WRITER values.

■ Specify where CA Spool is to deliver the email.

MAILTO, MAILCC, MAILBCC, MAILFROM, MAILFILE, ADDRESS, REPLYTO, EMAILRPT

Keywords in the EMAIL PARMS Section

Each line of the EMAIL PARMS section contains a Keyword, an equal sign (=), and a value. If the value contains blanks, enclose it in single or double quotes. If a Keyword has multiple values (like MAILTO), the first value goes on the same line as the keyword, and the other values are to be placed (one per line) on subsequent lines without the keyword and equal sign.

Parameters are as follows:

Keyword	Char. Length	Description
ADDRESS	60	Specifies the subject of the email. CA Spool requires this value to start with the SUBJECT=
		Note: The value of this parameter is limited to 60 characters. If it exceeds 60 characters, the value is truncated.
CLASS	1	Specifies the JES class used by the CA Spool Email Print Driver
		If omitted the value from the EMAILQ init parm is used.
DEST	17	Specifies the JES destination used by the CA Spool Email Print Driver
		If omitted the value from the EMAILQ init parm is used.
FORMS	8	Specifies the JES form used by the CA Spool Email Print Driver
		If omitted the value from the EMAILQ init parm is used.
WRITER	8	Specifies the JES writer used by the CA Spool Email Print Driver
		If omitted the value from the EMAILQ init parm is used.
MAILFILE='&FNM.MSG'	60	Specifies that CA Spool is to include the email text as inline text rather than an attachment
		If omitted, the email message is sent as a text attachment.
MAILTO	60	Specifies the email address(es) where this email is to be sent
		If more than one address is specified, each address must go on a separate line.
MAILBCC	60	Specifies the email address(es) where blind copies of this email are to be sent
		If more than one address is specified, each address must go on a separate line.

Keyword	Char. Length	Description
MAILCC	60	Specifies the email address(es) where copies of this email are to be sent
		If more than one address is specified, each address must go on a separate line.
MAILFROM	60	Specifies the email address that appears in the FROM field of the email message
REPLYTO	60	Specifies the email address where replies to this email are sent
SENDRPT=YES|NO	3	Specifies whether the report data is included within the email
		NO is the default.

Email Variables

All banner page variables are also available in the EMAIL PARMS and EMAIL TEXT sections. The EMAIL TEXT section contains both email message text and CA Spool control commands. See the CA Spool documentation for the meaning of these commands.

Note: Variables used in these sections *do not use a trailing delimiter*. The variables are replaced and trailing blanks are removed.

This sample EMAIL TEXT section contains the following line:

CREATED: &DATE4 &TIME

When the email is actually sent, it appears as

CREATED: 04/01/2012 10:44:59

Note: Each line of email text is limited to 133 characters. The value of some variables, like &RID, &ARCHID, or &DESC, can cause the line to exceed 133 characters. Only the first 133 characters of each line appear in the email.

If the first line of email text contains MSGTYPE=HTML, it indicates that the message contains HTML formatted text. For this type of message, reserved HTLM control characters in email variables must be deleted and replaced with their HTML entity number.

Character	HTML Entity Number
Quotation mark (")	"

Character	HTML Entity Number
Apostrophe (')	'
Ampersand (&)	&
Less-Than (<)	<
Greater-Than (>)	>

If a Report-ID (RID), Archive-ID (ARCHID), or Description (DESC) makes extensive use of these characters, the expanded email message line exceeds 133 characters.

Email Banner Page Variables

The following variables can be included in the EMAIL PARMS or TEXT sections:

Variable	Length	Description
EMADR*nn***n**	60	Inserts the one to three-digit position number of the email address within a group of distribution identifiers (n) You need not explicitly specify the first Email address; &EMADR and &EMADR1 are identical.
WEBLINK	3 x 132	The HTML link before Version 12.0 is three lines long and overlays any text on the WEBLINK line and the two lines that follow **Note:** Because WEBLINK uses HTML, any template using WEBLINK must be formatted with HTML control commands. See examples of templates that use HTML formatting. This variable is only available when a report is archived direct-to-view. If it is not available, it is replaced by an error indicator. WEBLINK IS NOT AVAILABLE FOR THIS REPORT -> Missing DB DOMAIN name
WEBLK12	3 x 132	The Version 12.0 HTML link is three lines long and overlays any text on the WEBLINK line and the two lines that follow. **Note:** Because WEBLK12 uses HTML, any template using WEBLK12 must be formatted with HTML control commands. See examples of templates that use HTML formatting. This variable is available only when a report is archived direct-to-view. If it is not available, it is replaced by an error indicator.

Sample Email Templates

These templates include samples of how to use HTML within an email and how to send report data as a PDF.

Using HTML Within an EMAIL

You can use the following as a model:

```
/EMAIL PARMS
 CLASS=B
 DEST=ESF2
 FORMS=EMAIL
 WRITER=EMAILTXT

 SENDRPT=NO
 MAILFILE='&FNM.MSG'
 MAILTO=&EMADR1
        &EMADR2
        &EMADR3
        &EMADR4
        &EMADR5
        &EMADR6
        &EMADR7
        &EMADR8
        &EMADR9
        &EMADR10
        &EMADR11
        &EMADR12
 ADDRESS='SUBJECT=REPORT &RID IS READY FOR VIEWING'
```

```
/EMAIL TEXT
 MSGTYPE=HTML                    CA Spool Command
 MSGSTART=>>                     CA Spool Command
 <HTML>
 <PRE >
 REPORT : &ARCHID<BR>
         &DESC<BR>
 CREATED: &DATE4 &TIME <BR>
 <BR>
 NOW AVAILABLE FOR VIEWING<BR>
 <BR>

 &WEBLINK
 WEBLINK CONTINUED
 WEBLINK CONTINUED

 THIS EMAIL IS BEING SENT TO THE FOLLOWING DISTID(S)<BR>
   &DIST1<BR>
   &DIST2<BR>

  </PRE>

 </HTML>

 <<MSGEND=
```

Sending the Report Data as a PDF

You can use the following as a model:

Note: Email text is *not* required because the report is being sent as a PDF instead of an email message.

```
/EMAIL PARMS

 CLASS=B
 DEST=ESF2
 FORMS=EMAIL
 WRITER=EMAILPDF
 SENDRPT=YES
```

```
MAILTO=&EMADR1
        &EMADR2
        &EMADR3
        &EMADR4
        &EMADR5
        &EMADR6
        &EMADR6
        &EMADR7
        &EMADR8
        &EMADR9
        &EMADR10
        &EMADR11
        &EMADR12
ADDRESS='SUBJECT=REPORT &RID (&DESC) ATTACHED'
```

Step 3. Run RMODBASE

Load an email message template into the CA Deliver database using the BLOAD function of RMODBASE to load the banner pages into CA Deliver.

After the job completes, CA Deliver has been updated with the email parameters.

Step 4. Update the Panels with Email Distribution Data

To send email and email notification, each DISTID must have an associated email address and web server.

Add these parameters online using the fields on the Distribution Data panel.

```
CA Deliver - Distribution Data for Distid: D27SYSP4 ---------------------

Command ===>


Destination:
  Dest    ===>                        CA Connect Node ===> NO  ( YES or NO )
  Writer  ===>
  Class   ===>
  Email   ===> GEORGE.JONES@AAM.COM
  EFormat ===> EMAILFMT
  WebSvr  ===> 1


Distribute to:
  ===> DEPT 27 - SYS PROG (GEORGE)
  ===> GEORGE JONES
  ===> BLDG A 32 - MS 55 A
  ===> TEMPLE STREET FACILITY
  ===>
```

Update the information on the Report Definition Attributes panel to specify the email designations.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00010

Command ===>                                                Scroll ===> PAGE


   ID     ---> EDITREPT01                     Job    ---> EDITSTEP
   Step   ---> TRJOB01       Procstep --->    DD     ---> EDITLIST
                                              Type   --->
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID            Out Dest           Eformat  MTWTFSS
       D27SYSP4                     E                           YYYYYYY
    *  D27VPRES                     E                           YYYYYYY
       D27PRES                      E                  MAILPDF  YYYYYYY



 ****************************** Bottom of Data ******************************

```

In this example, distribution identifiers D27SYSP4 and D27VPRES are grouped which causes one email to be sent to two recipients. In addition D27PRES receives a separate email using the email MAILPDF format.

Report distribution lists can also specify the name of the email format for each recipient. No email is sent if a blank or nonexistent format is specified.

Note: This specification overrides the email format found in the D27PRES DISTID.

Updating Distribution Data in Batch

The Database Batch Build utility, RMODBB, allows the email address, email format template name, and Web server number to be added in batch. This is done through these three parameters on the DISTDEF statement.

Note: RMODBB only updates the variables specified in its control statements. If you want to update email address in batch, specify EMAIL=(loc,len) in the control statements.

DISTDEF Keyword	Description	Length	Type
EFORMAT	Email format template name defined to the distribution identifier	8	C
EMAIL	Email address defined to the distribution identifier	60	C
WEBSVR	Web Server NUMBER (1-4) of the CA OM Web Server designated for the distribution identifier	1	C

Reporting Distribution Data in Batch

The General Report Writer utility, RMOGRW, allows printing and output of the email address, email format template name, and Web server number in batch. Three new fields have been added to the Distribution Data record.

Field Name	Description	Length	Type
EFORMAT	Email format template name defined to the distribution identifier	8	C
EMAIL	Email address defined to the distribution identifier	60	C
WEBSVR	Web Server NUMBER (1-4) of the CA OM Web Server designated for the distribution identifier	1	C

Step 5. (Optional) Validate the Address Using CA Spool

You can check to see if your recipients' email addresses were processed accurately. You can ask the CA Spool administrator to review the CA Spool log. Any non-existent addresses generate the following error message.

ESF964   Error on file send for email path

Appendix A: Panels and Subpanels

This section describes CA Deliver panels and subpanels and includes the following information:

■ A description of each panel or subpanel and its fields

■ How to access each panel or subpanel

This section contains the following topics:

Primary Selection Menu

The Primary Selection Menu panel is the first panel that displays when you log in to the online facility of the system.

You start most of the functions from this panel.

```
CA Deliver - Primary Selection for DELIVER.SYSTEM1 --------------------------
Command ===>

  A Active Display    - Display selection list of active reports or bundles.
  B Bundle Data       - Display bundle data.
  D Distribution Data - Display distribution data.
  J Job Data          - Display job data.
  R Report Data       - Display report data.

    Operands for A:
      B    - Display selection list of active bundles.
      R    - Display selection list of active reports (default).
      X    - Limit selection list to exceptions.
      PREV - Display selection list for previous cycle.

    Operand for B,D,J,R:
      Omit operand for complete selection list.
      Specify identifier to display data.
      Specify generic identifier for limited selection list.
      L    - For D only, display list of distribution lists.

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

Fields

The following are the fields on the Primary Selection Menu panel and their descriptions:

Command

Defines system wide and input commands or options (described later in this chapter)

Note: The previous illustration lists the available options and operands.

Scroll

Defines the scroll field option that allows you to scroll through the display by panels, lines, columns, up and down, and top and bottom

This field is also used to permanently change or temporarily override the scroll field option.

Scroll field options are described in the section Using Scroll Field Options in the chapter "Basics."

The scroll field displays on selected panels only.

Input Commands

The following are the input commands on the Primary Selection Menu panel and their descriptions:

A

Provides access to the Active Report List and Active Bundle List panels.

The syntax of the A command is as follows:

```
A [ R I B ] id PREV X
```

Where:

R

Displays the Active Report List. R is the default.

B

Displays the Active Bundle List

Id

Optionally, you can specify a specific or generic identifier to refine the list of active data. If omitted, a full list of authorized active data is accessible.

PREV

Displays the active data from the previous daily cycle

X

Limits the display to active data with an exceptional condition like LATE, NPROD

B

Accesses the Bundle Selection List or the Bundle Definition Attributes panel directly.

The syntax of the B command is as follows:

```
B id
```

Optionally, you can specify a specific or generic identifier on the B command.

If a specific identifier is entered, the Bundle Definition Attributes panel is accessed directly.

If the operand is omitted or a generic identifier is entered, the Bundle Selection List panel displays.

The generic identifier is used to refine the list of display data.

D

Accesses the Distribution Selection List or the Distribution Data directly.

The syntax of the D command is as follows:

```
D id [ LIST | L ]
```

Optionally, you can specify a specific or generic identifier on the D command.

If a specific identifier is entered, the Distribution Data or Distribution List panel is accessed directly.

If the operand is omitted or a generic identifier is entered, the Distribution Selection List panel displays.

The generic identifier is used to refine the list of display data.

Enter the LIST or L operand to create a distribution list. This operand can be omitted if an existing distribution list is being accessed.

DISPLAY

Provides access to banner page data, PRSET data, and online panels.

The syntax of the DISPLAY command is as follows:

DISPLAY [B | O | P]

Where:

B

Displays a list of banner page members

O

Displays a list of online panel members

P

Displays a list of PRSET members

If omitted, a selection menu is presented to the user with these choices.

Valid entries are DI, DISP, and DISPLAY.

J

Accesses the Job Selection List or the Reports for Job panel directly.

The syntax of the J command is as follows:

J *id*

Optionally, you can specify a specific or generic identifier on the J command.

If a specific identifier is entered, the Reports for Job panel is accessed directly.

If the operand is omitted or a generic identifier is entered, the Job Selection List panel displays.

The generic identifier is used to refine the list of display data.

R

Accesses the Report Selection List or the Report Definition Attributes panel directly.

The syntax of the R command is as follows:

R *id*

Optionally, you can specify a specific or generic identifier on the R command.

If a specific identifier is entered, the Report Definition Attributes panel is accessed directly.

If the operand is omitted or a generic identifier is entered, the Report Selection List panel displays.

The generic identifier is used to refine the list of display data.

X

Exits the online facility.

You can enter the X command and the END command on the Primary Selection Menu.

To exit the online system directly, you can issue "=X" from any panel.

Distribution Selection List Panel

The Distribution Selection List panel is used to add, display, or delete a distribution identifier or distribution list.

■ On the command line of the Primary Selection Menu panel, enter **D**, and press Enter to display the Distribution Selection List panel.

```
 CA Deliver ------------ Distribution Selection List (1) -----------------------
 Command ===>                                                 Scroll ===> PAGE

Sel Distribution ID              Line 1                                   List
==> *                            *                                        *
    DEPARTMENT 01 PRESIDENT       DEPT 01 — PRESIDENT
    DEPARTMENT 01 VICE PRESIDENT  DEPT 01 - VICE PRESIDENT
    D25FILE                       DEPT 25 - FILE ROOM
    D25LIB                        DEPT 25 - FILE ROOM
    D25MGR                        DEPT 25 - MANAGER
    D25PER1                       DEPT 25 - CLERK LEVEL 1
    D25PER2                       DEPT 25 - CLERK LEVEL 2
    D27FILE                       DEPT 27 - FILE ROOM
    D27LIST                       DEPT 27 — DISTRIBUTION GROUP             YES
    D27MGR                        DEPT 27 - MANAGER
    D27PROD                       DEPT 27 - PRODUCTION SUPERVISOR
    D27SYSP1                      DEPT 27 - SYS PROG (BRIAN JAMES)
    D27SYSP2                      DEPT 27 - SYS PROG (MARY BROWN)
    D27SYSP3                      DEPT 27 - SYS PROG (BILL SMITH)
    D27SYSP4                      DEPT 27 - SYS PROG (GEORGE JONES)
    D28FILE                       DEPT 28 - FILE ROOM
    D28LIB                        DEPT 28 - LIBRARIAN
    D28MGR                        DEPT 28 - MANAGER
    D29ACCT                       DEPT 29 - ACCOUNTANT
```

■ The Distribution Selection List panel provides an additional display that shows the additional distribution identifier and distribution list information. The Distribution Selection List panel toggles between the two displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
 CA Deliver ------------ Distribution Selection List (2) -----------------------
 Command ===>                                                  Scroll ===> PAGE

Sel Distribution ID                -- Last Changed --  User      List
==> *                              *          *        *         *
    DEPARTMENT 01 PRESIDENT        01/03/2013 09:17:45 N27USR
    DEPARTMENT 01 VICE PRESIDENT   01/03/2013 09:33:29 N27USR
    D25FILE                        08/31/2013 13:19:23 HFINN
    D25LIB                         08/26/2013 16:46:29 HFINN
    D25MGR                         11/10/2013 16:16:18 HFINN
    D25PER1                        11/02/2013 16:06:18 TEST
    D25PER2                        08/26/2013 16:46:38 HFINN
    D27FILE                        10/15/2013 12:33:13 HFINN
    D27LIST                        10/30/2013 18:25:15 HFINN     YES
    D27MGR                         10/15/2013 12:25:54 HFINN
    D27PROD                        10/15/2013 12:32:38 HFINN
    D27SYSP1                       01/03/2013 09:46:09 N27USR
    D27SYSP2                       11/03/2013 13:56:47 N27USR
    D27SYSP3                       11/10/2013 16:16:05 HFINN
    D27SYSP4                       05/05/2013 14:50:05 GJONES
    D28FILE                        01/03/2013 09:44:57 N27USR
    D28LIB                         10/15/2013 13:55:52 N27USR
    D28MGR                         10/15/2013 13:55:52 N27USR
    D29ACCT                        11/03/2013 11:56:49 N27USR
```

Fields

The following are the fields on the Distribution Selection List panels and their descriptions:

Sel

Defines tabular commands in this column.

Distribution ID

Displays the distribution identifier.

List

Indicates whether the distribution identifier has an associated list of distribution specifications.

Line 1

Displays the first address line of a distribution identifier or the description field of a distribution list.

Last Changed

Displays the date and time when the distribution identifier was last modified.

User

Displays the user or job that last modified the distribution identifier.

Input Commands

The following input commands are available on the Distribution Selection List panels:

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

```
CONFIRM  [ ON | OFF ]
```

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

LEFT

Toggles between the two active displays.

LOCATE

Scrolls to the entry whose name you specify as the operand of the command; if the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified.

For sorted lists, the LOCATE command traverses the list based on the first or only sort field.

Valid entries are L, LOC, or LOCATE.

REDISP

Redisplays (or refreshes) a selection list with current information.

Because definition and active data can be concurrently updated and added by the started task, batch jobs, and online users, data displayed on a selection list can become outdated. Recent changes and newly added data are obtained when the REDISP command is entered.

The syntax of the REDISP command is as follows:

```
REDISP  [ ON | OFF ]
```

Where:

ON

> Indicates that the display is to be refreshed automatically when the Enter key is pressed

OFF

> Indicates that the REDISP command must be entered to refresh the display

The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session. If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.

For sorted lists, you must specifically enter the REDISP command to refresh the display. Valid entries are RED, REDISP, REF, and REFRESH.

RIGHT

> Toggles between the two active displays.

SELECT

> Selects the distribution identifier or distribution list you specify as the operand of the command for display

> The syntax of the SELECT command is as follows:

> `SELECT id [ LIST | L ]`

> If the specified distribution identifier or distribution list does not exist, an entry is created for it.

> To create a distribution list, specify the LIST or L operand.

> Valid entries are S, SEL, and SELECT.

SORT

> Sorts the selection list display by distribution identifier, date/time entry was last changed, the user who last changed entry, or address line

> Up to two fields can be sorted.

> The syntax of the SORT command is as follows:

> `SORT field1 field2`

> The following field names can be referenced on the SORT command and the predefined sort sequence used to order the data.

> **DISTID**

> > Sorts by distribution identifier

> > You can enter DISTID as DID or D.

> > Sort Sequence: Ascending

> **CHANGED**

> > Sorts by date/time last changed

You can enter CHANGED as CHA or C.

Sort Sequence: Descending

USER

Sorts by user/job that last changed entry

You can enter USER as U.

Sort Sequence: Ascending

LINE

Sorts by address line

You can also specify LINE as DESC.

Sort Sequence: Ascending

To sort the selection list by address line, enter the command:

```
sort line
```

To sort the selection list by user who last changed entry and date/time entry was last changed, enter the command:

```
sort user cha
```

After the list is sorted, you can use the LOCATE command to traverse the list based on the first or only sort field. For example, if the list is sorted by address line, LOCATE SMITH scrolls the list to the entry or closest entry whose first address line is SMITH.

If the SORT command is entered by itself without a field, the standard dynamic list, which is sequenced by distribution identifier, displays.

Selection Codes

You can select one or more distribution identifiers for processing by entering one of the selection codes listed in the following table. Enter the selection code to the left of, and on the same line as, the distribution identifier to be selected.

An individual distribution identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection will not occur.

D

    Deletes the distribution identifier and all references to it.

R

    Renames the distribution identifier and change all references to it to the new name.

    Enter the new name immediately to the right of the distribution identifier.

S

    Displays and/or changes the distribution data for the identifier.

SL

    Displays the distribution lists that the distribution identifier is defined to and allows changes to the distribution specifications for the distribution lists.

SR

    Displays a list of reports that the distribution identifier is defined to and allows changes to the distribution specifications for the report.

X

    Displays a cross-reference list of all reports referencing the distribution identifier.

Filtering

You can refine or restrict the amount of data displayed on the Distribution Selection List panel by specifying filtering data for the distribution identifier, date entry was last changed, time entry was last changed, user/job that last changed entry, and address line. Enter filtering data on the line directly following the column headings on the Distribution Selection List panel.

By default, the filtering fields are set to asterisk (*) except for distribution identifier that is filled with the identifier from the D primary command (if specified). When the filtering fields are changed, the selection list redisplays with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria are displayed.

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

Distribution Data Panel

The Distribution Data panel is used to update shipping information.

To display the Distribution Data panel, do one of the following actions:

■ Create a distribution identifier or select an existing distribution identifier using the **D** input command from the Primary Selection Menu panel.

■ Select a distribution identifier from the Distribution Selection List panel, and press Enter.

■ Enter a new distribution identifier or select an existing distribution identifier on the Report Distribution Specifications panel or Bundle Distribution Specifications panel, and press Enter.

■ Enter a new distribution identifier or select an existing distribution identifier on the Distribution List panel.

```
CA Deliver - Distribution Data for Distid: D27PROD --------------------------
Command ===>

Destination:
  Dest    ===>                   CA Connect Node ===> NO  ( YES or NO )
  Writer  ===>
  Class   ===>
  Email   ===>
  EFormat ===>
  WebSvr  ===>

Distribute to:
  ===> PRODUCTION SUPERVISOR
  ===> DEPARTMENT 27
  ===>
  ===>
  ===>
  ===>
  ===>
  ===>
  ===>
```

Fields

The following are the fields on the Distribution Data panel and their descriptions:

Dest

Specifies the destination where the report or bundle is printed.

Blank

Accepts the value specified in the JCL.

CA Connect Node

Identifies whether the output of reports is being sent to a CA Connect node.

If output is being sent to CA Connect, CA Deliver can attach special information identifying the report identifier name, report description, recipient of the report, and other attributes to CA Connect.

YES—Output is being sent to a CA Connect node

NO—Output is not being sent to a CA Connect node

Writer

Specifies the name of an external writer to process the report.

The Report Distribution Specifications or distribution list distribution specifications can override the external writer.

If an external writer is not specified on the Distribution Data panel or in the respective distribution specifications, the report is printed under the external writer in the JCL used to create the SYSOUT data.

Class

Specifies the SYSOUT class for the report or bundle.

Blank

Accepts the value specified in the JCL, the Report Definition Attributes panel, or the Bundle Definition Attributes panel

Email

Specifies the email address of the recipient.

Eformat

Specifies the name of the banner page that contains the default email format template which supplies the information specifying the text for the email and where CA Spool delivers the message.

If omitted, the name specified on the EFORMAT initialization parameter is used.

WebSvr

Specifies the number (1-4) of the WEBSVRn initialization parameter that designates the CA OM Web Server that is used by the recipient.

This number is only needed if an email format template supplies a WEBLINK for the report.

If omitted, the CA OM Web Server designated by the WEBSVR1 initialization parameter is used. Each distribution identifier (DISTID) is associated with a single CA OM Web Server.

Distribute to

Specifies the text (address data) printed on the report or bundle banner page.

Distribution information can be 1 to 9 lines and each line can contain 1 to 72 characters.

Lines 1 to 6 print on the banner page for the report; you can modify the banner page to print all 9 lines.

Input Commands

The following are the input commands available on the Distribution Data panel and their descriptions:

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

COPY

Copies definition specifications from another distribution identifier.

Enter the distribution identifier from which the specifications are to be copied as a parameter on the command.

Distribution List Panel

The Distribution List panel is used to add and maintain distribution specifications for a distribution identifier. The distribution specifications for a distribution list look similar to the report distribution specifications but allow definition of a list of recipients externally from a report.

When a distribution list is defined to a report, the report is distributed based on the distribution specifications in the distribution list.

■ To display the Distribution List panel, do *one* of the following actions:

– Create a distribution list by entering the **D name L** input command on the Primary Selection Menu panel or by entering the **SELECT name L** input command on the Distribution Selection List panel, and press Enter.

– Display an existing distribution list by entering the **D** input command on the Primary Selection Menu panel, and press Enter.

– Select a distribution list from the Distribution Selection List panel or Report Distribution Specification panel, and press Enter.

```
CA Deliver - Distribution List (1) ------------------------ Row 00001 of 00007

Command ===>                                              Scroll ===> PAGE


   ID      ---> D29LIST
   Desc    ===> DEPARTMENT 29 LIST


 Distribution Specifications:                              Writer/   Days

Sel Grp Distribution ID                Out Dest           Eformat  MTWTFSS
        D29ACCT                         Y  ACCT            COLOR    YYYYYYY
        D29MGR                          Y                           YYYYYYY
        D29AP                           Y  PRT12                     YYYYYYY
        D29SMG01                        N                           YYYYYYY
        D29SMG02                        N                           YYYYYYY
        D29SMG03                        N                           YYYYYYY
        D29VPRES                        Y  PRT27                     YYYYYYY
***************************** Bottom of Data *******************************
```

■ The Distribution List panel provides a secondary display that shows additional distribution information. The Distribution List panel toggles between the primary and secondary displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
CA Deliver - Distribution List (2) ------------------------ Row 00001 of 00007

Command ===>                                              Scroll ===> PAGE
```

```
   ID      ---> D29LIST
   Desc    ===> DEPARTMENT 29 LIST


 Distribution Specifications:

Sel Sel Grp Distribution ID              Out Copies Rview Reprt Del

          D29ACCT                         Y   1      N     Y    Y
          D29MGR                          Y   1      N     Y    Y
          D29AP                           Y   1      N     Y    Y
          D29SMG01                        N   1      N     Y    Y
          D29SMG02                        N   1      N     Y    Y
          D29SMG03                        N   1      N     Y    Y
          D29VPRES                        Y   1      N     Y    Y
***************************** Bottom of Data *******************************
```

Fields

The following are the fields on the Distribution List panels and their descriptions:

Desc

Defines the 1- to 40-character description of the distribution list.

This description field is displayed in the Address Line field on the Distribution Selection List panel.

Sel

Defines the tabular commands in this column.

Grp

Indicates that the distribution identifier is to be grouped with the previous identifier.

Enter any character or leave this field blank to indicate that the distribution identifier is not to be grouped.

Distribution ID

Identifies the report recipient.

Out

Specifies whether output is to be printed, tracked, untracked for view only, or emailed.

Values are as follows:

T

Creates tracked, view-only output

Y

Creates printed output

N

Creates view-only output (not printed or tracked)

E

Sends email notification to recipient

Dest

Specifies a destination where the report is to be printed.

Blank

Accepts the value specified in the JCL. Blank is the default.

Writer/ EFORMAT

Specifies the name of an external writer to process the report.

Blank

Accepts the value specified on the Distribution Data panel or in the JCL used to create the report

If you specify a '*' for this field, the external writer name specified in the JCL for the job that creates the report is ignored, and the report is printed without the external writer.

For reports that are being emailed (Out field set to E), this field specifies the name of the EFORMAT member to be used to format the email notification. If omitted, the EFORMAT member defined to the distribution identifier or defined on the EFORMAT initialization parameter is used.

Days MTWTFSS

Specifies the days of the week from Monday to Sunday that printed output or email notification can be generated

Valid values for each of the days of week are as follows:

Y

Allows printed output or email notification

N

Prevents printed output or email notification

The default for days is YYYYYYY.

The day of the week by default is based on the day that the job was submitted and the setting of the BEGINDAY initialization parameter. Jobs submitted before the BEGINDAY setting are considered part of the previous day's cycle.

Copies

Specifies the number of printed copies of the report to be sent to the recipient

*

Accepts the value specified in the JCL

Rview

Specifies whether the recipient has restricted viewing privileges for the report within CA View, which provides viewing through unsecured logical views and prevents the use of the VIEW command

Valid values are Y, N, or blank.

Reprt

Specifies whether recipients can reprint the report within CA View

Valid values are Y, N, or blank.

Del

Specifies whether recipients can delete the archived version of the report or alter the archive status within CA View

Values are as follows:

Y

Permits recipients to delete the archived version of the report or alter the archive status

N

Prevents recipients from deleting the report or altering the archive status

Input Commands

The following input commands are available on the Distribution List panels:

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

CONFIRM [ON | OFF]

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

COPY

Copies the distribution specifications from another distribution identifier or report identifier

The syntax of the command is as follows:

COPY id [REPORT]

Where:

id

Specifies the distribution list or report identifier from which the specifications are to be copied

REPORT

Indicates that the distribution specifications are being copied from a report definition

You can enter REPORT as RID or R.

If omitted, the distribution specifications are copied from a distribution list.

Specify the A or B selection code to identify the destination of the copy.

FIND

Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel

The syntax of the FIND command is as follows:

`FIND string column [ FIRST | NEXT | LAST | PREV ] NOT`

You can enter the FIND command as F.

The string specification identifies the search data.

The string is matched against data starting in the first character of the search column.

The FIND command does not locate data that is embedded within the column.

If the string contains special characters, enclose the string within quotation marks.

The column name specification identifies the field that is to be searched. If omitted, the distribution identifier (DISTID) column is searched.

The following columns can be searched:

DISTID

Defines the Distribution Identifier

If a column name is not specified, DISTID is assumed.

You can enter DISTID as DID or D.

GROUP

Defines the Group indicator

You can enter GROUP as GRP.

OUT	Output indicator
DEST	Report destination
WRITER	External writer

You can enter WRITER as WTR.

DAYS	Distribution days
COPIES	Output copies
RVIEW	CA View logical view restriction indicator
REPRT	CA View reprint restriction
DEL	CA View delete restriction

The location specification identifies the origin and direction of the search. If omitted, the search begins with the row at the top of the current display. The location specifications are as follows:

FIRST

Starts the search at the beginning of the table and proceeds forward to the end of the table

NEXT

Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table

LAST

Starts the search at the end of the table and proceeds backward to the beginning of the table

PREV

Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table

The NOT specification indicates that the column is to be searched for data that is not equal to the string specified on the FIND command.

Note: For more information about the FIND command, see Input Commands in the chapter "Basics."

LEFT

Toggles between the two active displays.

RFIND

Locates the next occurrence of a previously issued FIND command.

If another occurrence is not found, a not-found message displays. Typically, PF5 and PF17 are defined as the RFIND key.

RIGHT

Toggles between the two active displays.

SORT

Sorts the distribution specifications by distribution identifier.

The distribution identifiers are sorted in ascending sequence. If distribution identifiers are grouped, the group is sorted first and then merged into the list based on the first distribution identifier in the group.

Note: The list is saved in the new sequence after sorting. If this sequence is not what you want, enter the CANCEL command to ignore the changes.

Selection Codes

You can select one or more distribution identifiers for processing by entering the selection code listed in the following table. Enter the selection code to the left of, and on the same line as, the distribution identifier to be selected.

An individual distribution identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

The Distribution List panel also supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries.

Note: For more information, see the section Tabular Commands in the chapter "Basics."

S

Displays the distribution data for the distribution identifier.

Report Xref for Distid Panel

The Report Xref for Distid panel is used to show all reports that are directly or indirectly defined to a particular distribution identifier.

■ In the selection code column of the Distribution Selection List or Distribution Lists for Distid panel, enter the **X** tabular command, and press Enter to display the Report Xref for Distid panel.

```
 CA Deliver - Report Xref for DISTID (1) ------------------- Row 00001 of 00004
 Command ===>                                               Scroll ===> PAGE

   ID     ---> DEPARTMENT 01 PRESIDENT
                                                    Writer/   Days
 Sel Report ID                      Out C Dest      Eformat   MTWTFSS
 ==> *                              *   * *         *         *
     U59868-REPORT01                N                         YYYYYYY
     U90526-REPORT03                N                         YYYYYYY
     U90526-REPORT04                N                         YYYYYYY
     U90725-REPORT01                Y   A                     YYYYYYY
 **************************** Bottom of Data *****************************
```

■ The Report Xref for Distid panel provides three more displays that show additional report information. The Report Xref for Distid panel toggles between the four displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
 CA Deliver - Report Xref for DISTID (2) ------------------- Row 00001 of 00004
 Command ===>                                               Scroll ===> PAGE

   ID     ---> DEPARTMENT 01 PRESIDENT

 Sel Report ID                      Out Copies Rview Reprt Del
 ==> *                              *          *     *     *
     U59868-REPORT01                N   1      N     Y     Y
     U90526-REPORT03                N   1      N     Y     Y
     U90526-REPORT04                N   1      N     Y     Y
     U90725-REPORT01                Y   1      N     Y     Y
 **************************** Bottom of Data *****************************
```

```
 CA Deliver - Report Xref for DISTID (3) ------------------- Row 00001 of 00004
 Command ===>                                          Scroll ===> PAGE

   ID     ---> DEPARTMENT 01 PRESIDENT

Sel Report ID                      Jobname  Stepname Procstep DDname
==> *                              *
    U59868-REPORT01                U59868   STEP1             OUTPUT
    U90526-REPORT03                U90526   SALESTEP          REPORTS
    U90526-REPORT04                U90526   SALESTEP          REPORTS
    U59868-REPORT01                U59868   FINASTEP          REPORTF
***************************** Bottom of Data ******************************
```

```
 CA Deliver - Report Xref for DISTID (4) ------------------- Row 00001 of 00004
 Command ===>                                          Scroll ===> PAGE

   ID     ---> DEPARTMENT 01 PRESIDENT

Sel Report ID                      Distribution List
==> *                              *
    U59868-REPORT01                DEPARTMENT01LIST
    U90526-REPORT03
    U90526-REPORT04
    U59868-REPORT01
***************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Report Xref for Distid panels and their descriptions:

Sel

Defines the tabular commands in this column.

Report ID

Displays the report identifier.

C

Identifies the distribution SYSOUT class used for printing the report.

If SYSOUT class is blank, the report is printed to the SYSOUT class reference in the JCL used to create the report.

Copies

Specifies the number of printed copies of the report to be sent to the recipient.

Enter an asterisk to accept the value in the JCL.

Out

Indicates whether output is to be printed, tracked, untracked for view only, or emailed.

Values are as follows:

T

Creates tracked, view-only output

Y

Creates printed output

N

Creates view-only output (not printed or tracked)

E

Sends email notification to recipient

Dest

Identifies the distribution destination where the report is to be printed.

If blank, the report is routed to the destination in the JCL used to create the report.

Writer/EFORMAT

Specifies the name of an external writer to process the report.

Blank

Accepts the value specified on the Distribution Data panel or in the JCL used to create the report

'*'—If specified for this field, the external writer name specified in the JCL for the job that creates the report is ignored, and the report is printed without the external writer.

For reports that are being emailed (Out field set to E), this field specifies the name of the EFORMAT member to be used to format the email notification. If omitted, the EFORMAT member defined to the distribution identifier or defined on the EFORMAT initialization parameter is used.

Days MTWTFSS

Specifies the days of the week from Monday to Sunday that printed output or email notification can be generated.

Valid values for each of the days of week are as follows:

Y

Allows printed output or email notification

N

Prevents printed output or email notification

The default for days is YYYYYYY.

The day of the week by default is based on the day that the job was submitted and the setting of the BEGINDAY initialization parameter. Jobs submitted before the BEGINDAY setting is considered part of the previous day's cycle.

Rview

Indicates whether the recipient has restricted viewing privileges for the report within CA View, which provides viewing through non secured logical views and prevents the use of the VIEW command.

Values are as follows:

Y

Recipient can only access the report with a non-secured logical view and is prohibited from using the VIEW command

N

Recipient can access the report through any logical view and can use the VIEW command to create or change the logical view

Reprt

Indicates whether the recipient can reprint the report within CA View.

Values are as follows:

Y

Recipient can reprint the report

N

Recipient is not allowed to reprint the report

Del

Indicates whether the recipients can delete the archived version of the report or alter the archive status within CA View.

Values are as follows:

Y

Permits recipients to delete the archived version of the report or alter the archive status

N

Prevents recipients from deleting the report or altering the archive status

Jobname

Specifies the job name associated with the report.

Stepname

Specifies the name of the job step in the DD statement where the report applies.

Procstep

Specifies the name of the procedure step in the DD statement where the report is located.

DDname

Specifies the 1- to 8-character name of the DD statement where the report is written.

Distribution ID List

Identifies the distribution list name that the distribution identifier is defined to.

Input Commands

The following input commands are available on the Report Xref for Distid panels:

LEFT

Toggles the display between the four displays of the Report Xref for Distid panel

LOCATE

Scrolls to the entry whose name you specify as the operand of the command; if the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified

For sorted lists, the LOCATE command traverses the list based on the first or only sort field.

Valid entries are L, LOC, and LOCATE.

RIGHT

Toggles the display between the four displays of the Report Xref for Distid panel

SELECT

Selects the report identifier you specify as the operand of the command for display

If the specified report identifier does not exist, an error message displays.

Valid entries are S, SEL, and SELECT.

SORT

Sorts the selection list display by report identifier or job name

The syntax of the SORT command is as follows:

```
SORT field
```

The following table identifies the field names that can be referenced on the SORT command and the predefined sort sequence used to order the data.

REPORT

Sorts by report identifier

Sort Sequence: Ascending

You can enter REPORT as RID or R.

JOBNAME

Sorts by job name

Sort Sequence: Ascending

You can enter JOBNAME as JOB or J.

To sort the selection list by job name, enter the command:

```
sort job
```

After the list is sorted, you can use the LOCATE command to traverse the list based on the first or only sort field. For example, if the list is sorted by job name, LOCATE PROD scrolls the list to the entry or closest entry whose job name is PROD.

Selection Codes

You can select one or more report identifiers for processing by entering the selection code listed in the following table. Enter the selection code to the left of, and on the same line as, the report identifier to be selected.

An individual report identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

S

Displays and changes the report definition attributes for the identifier.

Filtering

You can refine or restrict the amount of data displayed on the Report Xref for Distid panel by specifying filtering data for report identifier, distribution list name, SYSOUT class, destination, external writer, output indicator, view restriction indicator, reprint indicator, delete indicator, and job name. Enter filtering data on the line directly following the column headings on the Report Xref for Distid panel.

By default, the filtering fields are set to asterisk (*). When the filtering fields are changed, the selection list redisplays with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria are displayed.

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

Reports for Distid Panel

The Reports for Distid panel is used to add a recipient or to update information for the recipient of a report.

■ To display the Reports for Distid panel, enter the **SR** tabular command in the selection code column of the Distribution Selection List panel or Distribution Lists for Distid panel, and press Enter.

```
 CA Deliver - Reports for Distid (1) ---------------------- Row 00001 of 00003
 Command ===>                                            Scroll ===> PAGE

   ID    ---> DEPARTMENT 01 PRESIDENT
                                                  Writer/   Days
Sel Report ID                    Out Dest        Eformat   MTWTFSS
    U90526-R03                   N                          YYYYYYY
    U90526-R04                   N                          YYYYYYY
    U90725-R01                   Y                          YYYYYYY
***************************** Bottom of Data ******************************
```

■ The Reports for Distid panel provides a secondary display that shows additional report information. The Reports for Distid panel toggles between the two displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
 CA Deliver - Reports for Distid (2) ---------------------- Row 00001 of 00003
 Command ===>                                            Scroll ===> PAGE

   ID     ---> DEPARTMENT 01 PRESIDENT

Sel Report ID                    Out Copies Rview Reprt Del
    U90526-R03                   N    1      N     Y     Y
    U90526-R04                   N    1      N     Y     Y
    U90725-R01                   Y    1      N     Y     Y
***************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Reports for Distid panels and their descriptions:

Sel

Defines tabular commands in this column.

Report ID

Identifies the report identifier.

Out

Specifies whether output is to be printed, tracked, untracked for view only, or emailed.

Values are as follows:

T

Creates tracked, view-only output

Y

Creates printed output

N

Creates view-only output (not printed or tracked)

E

Sends email notification to recipient

Dest

Specifies a destination where the report is to be printed.

Blank

Accepts the value specified in the JCL. Blank is the default.

Writer/ EFORMAT

Specifies the name of an external writer to process the report.

For reports that are being emailed (Out field set to E), this field specifies the name of the EFORMAT member to be used to format the email notification. If omitted, the EFORMAT member defined to the distribution identifier or defined on the EFORMAT initialization parameter is used.

Days MTWTFSS

Specifies the days of the week from Monday to Sunday that printed output or email notification can be generated.

Values for each of the days of week are as follows:

Y

Allows printed output or email notification

N

Prevents printed output or email notification.

The day of the week by default is based on the day that the job was submitted and the setting of the BEGINDAY initialization parameter. Jobs submitted before the BEGINDAY setting is considered part of the previous day's cycle.

Copies

Specifies the number of copies to be sent to the recipient.

Enter an asterisk to accept the value in the JCL.

Rview

Specifies whether the recipient has restricted viewing privileges for the report within CA View, which provides viewing through non secured logical views and prevents the use of the VIEW command.

Valid values are Y, N, and Blank.

Reprt

Specifies whether recipients can reprint the report within CA View.

Valid values are Y, N, and Blank.

Del

Specifies whether recipients can delete the archived version of the report or alter the archive status within CA View.

Values are as follows:

Y

Permits recipients to delete the archived version of the report or alter the archive status

N

Prevents recipients from deleting the report or altering the archive status

Input Commands

The following input commands are available on the Reports for Distid panels:

CANCEL

Terminates the current display and displays the previous panel; input data is not saved.

Valid entries are CAN and CANCEL.

COPYLIST

Displays a copylist subpanel from which you can choose from available lists of report IDs to copy without reentering existing information.

FIND

Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel

The syntax of the FIND command is as follows:

FIND string column [FIRST | NEXT | LAST | PREV] NOT

You can enter the FIND command as F.

The string specification identifies the search data. The string is matched against data starting in the first character of the search column.

The FIND command does not locate data that is embedded within the column.

If the string contains special characters, enclose the string within quotation marks.

The column name specification identifies the field that is to be searched. If omitted, the report identifier (REPORT) field is searched. The following columns can be searched:

REPORT

Report identifier.

You can enter REPORT as RID or R. If a column name is not specified, REPORT is assumed.

OUT

Output indicator.

DEST

Report destination.

WRITER

External writer

You can enter WRITER as WTR.

DAYS

Distribution days.

COPIES

Output copies.

RVIEW

CA View logical view restriction indicator.

REPRT

CA View reprint restriction.

DEL

CA View delete restriction.

The location specification identifies the origin and direction of the search. If omitted, the search begins with the row at the top of the current display. The location specifications are as follows:

FIRST

Starts the search at the beginning of the table and proceeds forward to the end of the table.

NEXT

Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table.

LAST

Starts the search at the end of the table and proceeds backward to the beginning of the table.

PREV

Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table.

The NOT specification indicates that the column is to be searched for data that is not equal to the string specified on the FIND command.

Note: For more information about the FIND command, see Input Commands in the chapter "Basics."

LEFT

Toggles between the two active displays.

RFIND

Locates the next occurrence of a previously issued FIND command.

If another occurrence is not found, a not-found message displays. Typically, PF5 and PF17 are defined as the RFIND key.

RIGHT

Toggles between the two active displays.

SORT

Sorts the display by report identifier, in ascending sequence.

Selection Codes

You can select one or more report identifiers for processing by entering the selection code listed in the following table. Enter the selection code to the left of, and on the same line as, the report identifier to be selected.

An individual report identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

The Reports for Distid panel also supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries.

Note: For more information, see the section Tabular Commands in the chapter "Basics."

S

Displays the distribution data for the distribution identifier.

Distribution Lists for Distid Panel

The Distribution Lists for Distid panel is used to add or update the distribution requirements for a distribution identifier within a distribution list.

- To display the Distribution Lists for Distid panel, enter the **SL** tabular command in the selection code column of the Distribution Selection List panel, and press Enter.

```
 CA Deliver - Distribution List(s) for Distid (1) ----------- Row 00001 of 00002
 Command ===>                                            Scroll ===> PAGE

    ID     ---> DEPARTMENT 01 PRESIDENT
                                                      Writer/   Days
 Sel Distribution List                 Out Dest      Eformat   MTWTFSS
     DEPARTMENT 01 LIST                  N                      YYYYYYY
     PRESIDENT LIST                      N                      YYYYYYY
 ***************************** Bottom of Data ******************************
```

- The Distribution Lists for Distid panel provides a secondary display that shows additional distribution ID information. The Distribution Lists for Distid panel toggles between the two displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
 CA Deliver - Distribution List(s) for Distid (2) ----------- Row 00001 of 00002
 Command ===>                                            Scroll ===> PAGE

    ID     ---> DEPARTMENT 01 PRESIDENT

 Sel Distribution List              Out Copies Rview Reprt Del
     DEPARTMENT 01 LIST              N   1       N     Y    Y
     PRESIDENT LIST                  N   1       N     Y    Y
 ***************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Distribution Lists for Distid panels and their descriptions:

Sel

Defines the tabular commands in this column.

Distribution ID List

Identifies the distribution list that the distribution identifier is defined to.

Out

Specifies whether output is to be printed, tracked, untracked for view only, or emailed.

Values are as follows:

T

Creates tracked, view-only output

Y

Creates printed output

N

Creates view-only output (not printed or tracked)

E

Sends email notification to recipient

Dest

Specifies a destination where the report is to be printed.

Blank

Accepts the value specified in the JCL. Blank is the default.

Writer/ EFORMAT

Specifies the name of an external writer to process the report.

For reports that are being emailed (Out field set to E), this field specifies the name of the EFORMAT member to be used to format the email notification. If omitted, the EFORMAT member defined to the distribution identifier or defined on the EFORMAT initialization parameter is used.

Days MTWTFSS

Specifies the days of the week from Monday to Sunday that printed output or email notification can be generated.

Values for each of the days of week are as follows:

Y

Allows printed output or email notification

N

Prevents printed output or email notification

The day of the week by default is based on the day that the job was submitted and the setting of the BEGINDAY initialization parameter. Jobs submitted before the BEGINDAY setting is considered part of the previous day's cycle.

Copies

Specifies the number of copies to be sent to the recipient.

Enter an asterisk to accept the value in the JCL.

Rview

Specifies whether the recipient has restricted viewing privileges for the report within CA View, which provides viewing through non secured logical views and prevents the use of the VIEW command.

Valid values are Y, N, and Blank.

Reprt

Specifies whether recipients can reprint the report within CA View.

Valid values are Y, N, and Blank.

Del

Specifies whether recipients can delete the archived version of the report or alter the archive status within CA View.

Values are as follows:

Y

Permits recipients to delete the archived version of the report or alter the archive status

N

Prevents recipients from deleting the report or altering the archive status

Input Commands

The following input commands are available on the Distribution Lists for Distid panels:

CANCEL

Terminates the current display and displays the previous panel; input data is not saved.

Valid entries are CAN and CANCEL.

COPYLIST

Displays a copylist subpanel from which you can choose from available lists of report IDs to copy without reentering existing information.

FIND

Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel

The syntax of the FIND command is as follows:

FIND string column [FIRST | NEXT | LAST | PREV] NOT

You can enter the FIND command as F.

The string specification identifies the search data. The string is matched against data starting in the first character of the search column.

The FIND command does not locate data that is embedded within the column.

If the string contains special characters, enclose the string within quotation marks.

The column name specification identifies the field that is to be searched. If omitted, the report identifier (REPORT) field is searched. The following columns can be searched:

REPORT

Report identifier.

You can enter REPORT as RID or R. If a column name is not specified, REPORT is assumed.

OUT

Output indicator.

DEST

Report destination.

WRITER

External writer.

You can enter WRITER as WTR.

DAYS

Distribution days.

COPIES

Output copies.

RVIEW

CA View logical view restriction indicator.

REPRT

CA View reprint restriction.

DEL

CA View delete restriction.

The location specification identifies the origin and direction of the search. If omitted, the search begins with the row at the top of the current display. The location specifications are as follows:

FIRST

Starts the search at the beginning of the table and proceeds forward to the end of the table.

NEXT

Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table.

LAST

Starts the search at the end of the table and proceeds backward to the beginning of the table.

PREV

Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table.

The NOT specification indicates that the column is to be searched for data that is not equal to the string specified on the FIND command.

Note: For more information about the FIND command, see Input Commands in the chapter "Basics."

LEFT

Toggles between the two active displays.

RFIND

Locates the next occurrence of a previously issued FIND command.

If another occurrence is not found, a not-found message displays. Typically, PF5 and PF17 are defined as the RFIND key.

RIGHT

Toggles between the two active displays.

SORT

Sorts the display by report identifier, in ascending sequence.

Selection Codes

You can select one or more report identifiers for processing by entering the selection code listed in the following table. Enter the selection code to the left of, and on the same line as, the report identifier to be selected.

An individual report identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

The Distribution Lists for Distid panel also supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries.

Note: For more information about selection code, see the section Tabular Commands in the chapter "Basics."

S

Displays the distribution data for the distribution identifier.

SR

Displays the reports that the distribution list are defined to.

Job Selection List Panel

The Job Selection List panel is used to add, display, or delete job definition.

■ To display the Job Selection List panel, enter **J** on the command line of the Primary Selection Menu panel, and press Enter.

```
CA Deliver ---------------- Job Selection List (1) ----------------------------
Command ===>                                                    Scroll ===> PAGE

Sel Jobname          Description
==> *                *
    TRESQ001         TRE QUARTERLY REPORTS
    TRESR001         TRE ON-REQUEST PRINT
    TRESR002         TRE ON-REQUEST PRINT
    TRESR003         SPECIAL RUN OF TRE6066 FOR JAMES SMITH
    TRESR004         TRE ON-REQUEST PRINT
    TRESR005         TRE ON-REQUEST PRINT
    TRESSA01         RENT/TRE COMPARISON
    TRESW001         TRE WEEKLY PRINT SAN FRANCISCO OFFICE
    TRESW003         TRE WEEKLY PRINT SANTA MONICA OFFICE
    TRESW004         TRE WEEKLY PRINT SANTA BARBARA OFFICE
    TRESW005         TRE WEEKLY PRINT SAN DIEGO OFFICE
    TRESW040         TRE REGIONAL TRACKING
    TRESY001         YEARLY SALE HISTORY LOAD
    TRESY003         YEARLY SUMMARY REPORT
    TRESY010         TRE YEARLY REPORTS
    TRJOB02          TELECOMM MONTHEND REPORTS
    TTAXCA01         CALIFORNIA TAX RUNS
    TTAXLD01         EOM PROCESSING
    TTAXM020         MONTHLY SALES TAX RETURNS SAN FRANCISCO
```

■ The Job Selection List panel provides a secondary display that shows additional job information. The Job Selection List panel toggles between the two displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
CA Deliver --------------- Job Selection List (2) ---------------------------
Command ===>                                               Scroll ===> PAGE

Sel Jobname          -- Last Changed --  User
==> *                *          *        *
    TRESQ001         09/29/2013 11:23:40 GROBER1
    TRESR001         01/08/2013 11:19:54 GROBER1
    TRESR002         01/08/2013 11:21:29 GROBER1
    TRESR003         09/26/2013 11:13:45 GROBER1
    TRESR004         01/05/2013 08:21:52 GROBER1
    TRESR005         01/25/2013 11:06:18 GROBER1
    TRESSA01         01/25/2013 09:23:11 GROBER1
    TRESW001         10/13/2013 10:18:58 GROBER1
    TRESW003         10/10/2013 12:50:03 GROBER1
    TRESW004         09/26/2013 10:55:25 GROBER1
    TRESW005         06/16/2013 09:39:10 GROBER1
    TRESW040         02/21/2013 10:56:52 GROBER1
    TRESY001         01/25/2013 09:03:46 GROBER1
    TRESY003         01/18/2013 10:24:47 GROBER1
    TRESY010         09/29/2013 11:23:21 GROBER1
    TRJOB02          10/17/2013 17:22:27 DSTECK1
    TTAXCA01         03/01/2013 15:32:03 GROBER1
    TTAXLD01         02/20/2013 10:27:52 GROBER1
    TTAXM020         04/10/2013 15:28:27 CAYERS1
```

Fields

The following table describes the fields on the Job Selection List panels:

Sel

Defines the tabular commands in this column.

Jobname

Displays the job name.

Description

Displays the description defined to the job.

Last Changed

Displays the date and time when the job identifier was last modified.

User

Displays the user of job that last modified the job identifier.

Input Commands

The following input commands are available on the Job Selection List panels:

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

CONFIRM [ON | OFF]

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

LEFT

Toggles between the two active displays.

LOCATE

Scrolls to the entry whose name you specify as the operand of the command; if the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified

For sorted lists, the LOCATE command traverses the list based on the first or only sort field.

Valid entries are L, LOC, and LOCATE.

REDISP

Redisplays, or refreshes, a selection list with current information.

Because definition and active data can be concurrently updated and added by the started task, batch jobs, and online users, data displayed on a selection list can become outdated. Recent changes and newly added data are obtained when the REDISP command is entered.

The syntax of the REDISP command is as follows:

REDISP [ON | OFF]

Where:

ON

Indicates that the display is to be refreshed automatically when the Enter key is pressed

OFF

Indicates that the REDISP command must be entered to refresh the display

The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.

If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.

For sorted lists, enter the REDISP command to refresh the display.

Valid entries are RED, REDISP, REF, and REFRESH.

RIGHT

Toggles between the two active displays.

SELECT

Selects the job name you specify as the operand of the command for display.

If the specified job name does not exist, an entry is created for it.

Valid entries are S, SEL, and SELECT.

SORT

Sorts the selection list display by job name, date/time entry was last changed, user who last changed entry, or description

Up to two fields can be sorted.

The syntax of the SORT command is as follows:

SORT field1 field2

The following table identifies the field names that can be referenced on the SORT command and the predefined sort sequence used to order the data.

Jobname

Sorts by job name.

You can enter JOBNAME as JOB or J.

Sort Sequence: Ascending

Changed

Sorts by date/time last changed.

You can enter CHANGED as CHA or C.

Sort Sequence: Descending

User

Sorts by user/job that last changed entry.

You can enter USER as U.

Sort Sequence: Ascending

Desc

Sorts by description.

Sort Sequence: Ascending

To sort the selection list by description, enter the command:

```
sort desc
```

To sort the selection list by user who last changed entry and date/time entry was last changed, enter the command:

```
sort user cha
```

After the list is sorted, you can use the LOCATE command to scroll through the list based on the first or only sort field. For example, if the list is sorted by description line, LOCATE PROD scrolls the list to the entry or closest entry whose description is PROD.

When entered by itself, without a field, SORT displays the standard dynamic list, which is sequenced by job name.

Selection Codes

You can select one or more job names for processing by entering one of the selection codes listed in the following table. Enter the selection code to the left of, and on the same line as, the job name to be selected.

An individual job name can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

A

> Activates all reports for the job name.

D

> Deletes the job name and all its report definitions.

PS

> Presets the handling of the last rerun of previously-produced reports that belong to specified steps.

R

> Renames the job name and its references within report definitions.
>
> Enter the new name immediately to the right of the job name.

S

> Displays the list of reports defined to the job name.

U

> Inactivates all reports for the job name.

UF

> Forcibly inactivates all reports for the job name.
>
> **Important!** Use UF only as a last resort to clean up entries in a database because some entries can be left on the spool volumes.

Filtering

You can refine or restrict the amount of data displayed on the Job Selection List panel by specifying filtering data for job name, date entry was last changed, time entry was last changed, user/job that last changed entry, and job description. Enter filtering data on the line directly following the column headings on the Job Selection List panel.

By default, the filtering fields are set to asterisk (*) except for job name that is filled with the identifier from the J primary command (if specified). When the filtering fields are changed, the selection list redisplays with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria are displayed.

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

Reports for Job Panel

The Reports for Job panel is used to add new report IDs or update existing report IDs.

To display the Reports for Job panel, enter **J** on the command line on the Primary Selection Menu panel, and press Enter.

```
 CA Deliver ---------------- Reports for Job: TRJOB01 ------ Row 00001 of 00003

 Command ===>                                            Scroll ===> PAGE

Desc    ===> EDIT OF ACCOUNTING DATA
Prevrun ===>

Sel Stepname Procstep DDname    Report ID                    Type  Prevrun
    EDITSTEP          EDITRPT    TRJOB01-R01                  STACK
                                 TRJOB02-R02                  STACK
                                 TRJOB03-R03                  STACK
***************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Reports for Job panel and their descriptions:

Desc

Defines the 1- to 40-character description of the job.

This field is optional.

Prevrun

Specifies one of the following options:

FLAG—The report from the most recently run job is to be untouched but flagged

DEL—The report is to be deleted

KEEP—The report is to be untouched

Blank—Uses the value of the PREVRUN initialization parameter

Note: FLAG and DEL work only when the report is in CA View or a bundle holding spool.

Sel

Defines the tabular commands in this column.

Stepname

Specifies the name of the job step in the DD statement where the report applies.

Procstep

Specifies the name of the procedure step in the DD statement where the report is located.

DDname

Specifies the 1 to 8 character name of the DD statement where the report is written. Another use for the DDname field is to specify report selection by JCL form, writer name, sysout class, or sysout destination. The forms, writer name, Class, or Destination is specified as F=xxxxxxxx, W=xxxxxxxx, C=xxxxxxxx, or D=xxxxxxxx in DDname.

Report ID

Specifies the 1- to 32-character name that identifies the report.

Type

Specifies the type of report processing as follows:

M—Monitored data output

S—A stacked report

C—A control break report

I—A report created from interleaved records

D—A dynamic report

Blank—A basic report

P

Specifies one of the following options:

FLAG—The report from the most recently run job is to be untouched but flagged

DEL—The report is to be deleted

KEEP—The report is to be untouched

Blank—The report defaults to what was selected under Prevrun

Input Commands

The following input commands are available on the Reports for Job panel:

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

CONFIRM [ON | OFF]

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

COPY

Copies definition specifications from another job definition.

The syntax of the COPY command is as follows:

COPY jobname from-string to-string

Where:

Jobname

Identifies the job name from which the report specifications are to be copied.

from-string

Identifies a series of characters that is matched against the report identifier names being copied.

If the from-string characters are found in the report identifier name, the characters are replaced with the to-string characters to form a new report identifier name. The report definition data from the original report identifier name is automatically copied to the new report identifier name excluding its bundle references.

If the from-string characters are not found in the report identifier name or if the resulting report identifier name exists, the report identifier is not changed and must be manually changed on the Reports for Job panel.

The default for from-string is the name of the job being copied; the default for to-string is the name of the current job being displayed.

If reports are being added into existing job data, specify the A or B selection code to identify the destination of the copy.

FIND

Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel.

The syntax of the FIND command is as follows:

FIND string column [FIRST | NEXT | LAST | PREV] NOT

You can enter the FIND command as F.

The string specification identifies the search data. The string is matched against data starting in the first character of the search column.

The FIND command does not locate data that is embedded within the column. If the string contains special characters, enclose the string within quotation marks. The string specification can be omitted when searching the Stepname, Procstep name, and DDname fields.

The column name specification identifies the field that is to be searched.

If omitted, the report identifier (REPORT) field is searched. The following columns can be searched:

Stepname

Step name.

You can enter Stepname as STEP.

Procstep

Procedure step name.

You can enter PROCSTEP as PROC.

DDname

Data definition name.

You can enter DDname as DD.

Report

Report identifier.

You can enter REPORT as RID or R. If a column name is not specified, REPORT is the default.

Type

Report type.

The location specification identifies the origin and direction of the search. If omitted, the search begins with the row at the top of the current display. The location specifications are as follows:

FIRST

Starts the search at the beginning of the table and proceeds forward to the end of the table.

NEXT

Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table.

LAST

Starts the search at the end of the table and proceeds backward to the beginning of the table.

PREV

Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table.

The NOT specification indicates that the column is to be searched for data that is not equal to the string specified on the FIND command.

Note: For more information about the FIND command, see Input Commands in the chapter "Basics."

RFIND

Locates the next occurrence of a previously issued FIND command.

If another occurrence is not found, a not-found message displays. Typically, PF5 and PF17 are defined as the RFIND key.

Selection Codes

You can select one or more report identifiers for processing by entering one of the selection codes listed in the following table. Enter the selection code to the left of, and on the same line as, the report identifier to be selected.

An individual report identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

The Reports for Job panel also supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries. For more information, see the section Tabular Commands in the chapter "Basics."

D

Deletes the report identifier.

H

Displays the historical data for the report identifier.

PS

"Presets" the handling of the last rerun of previously produced reports that belong to the specified step.

S

Displays the report definition attributes for the report identifier.

U

Inactivates the report identifier.

UF

Forcibly inactivates the report identifier.

Important! Use UF only as a last resort to clean up entries in a database because some entries can be left on the spool volumes.

X

Displays the Distribution Xref for Report panel.

Report Selection List Panel

The Report Selection List panel is used to add, display, or delete a report identifier.

■ To display the Report Selection List panel, enter **R** on the command line of the Primary Selection Menu panel, and press Enter.

```
CA Deliver --------------- Report Selection List (1) --------------------------
Command ===>                                              Scroll ===> PAGE

Sel Report ID                     Description
==> *                             *
    TTAXQ001-R01                  QUARTERLY TAX
    TTAXQ001-R05                  QUARTERLY TAX
    TTAXQ001-R10                  QUARTERLY TAX
    TTAXQ001-R15                  QUARTERLY TAX
    TTAXQ001-R20                  QUARTERLY TAX
    TTAXQ001-R25                  QUARTERLY TAX
    TTAXQ001-R30                  QUARTERLY TAX
    TTAXQ001-R35                  QUARTERLY TAX
    TTCDLY01-R06                  CREATE SMDR DAILY
    TTCDLY01-R10                  CREATE SMDR DAILY
    TTCDLY02-R01                  SIXTY MINUTE REPORT
    TTCMTH02-R01                  SDN LNGDST CHARGE SUMMARY
    TTCMTH02-R02                  PRE STORE LONG DISTANCE BILL
    TTCMTH02-R03                  PRE STORE LONG DISTANCE ZERO
    TTCMTH02-R04                  PRE STORE LONG DISTANCE JOURNALS
    TTCMTH02-R05                  PRE CALLING CARD LONG DISTANCE BILL
    TTCMTH02-R06                  PRE CALLING CARD LONG DISTANCE ZERO
    TTCMTH02-R07                  PRE CALLING CARD LONG DISTANCE JOURNALS
    TTCMTH02-R08-SUMMARY-DD       SWB DIRECT DIAL SUMMARY
```

■ The Report Selection List panel provides a secondary display that shows additional report information. The Report Selection List panel toggles between the two displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
CA Deliver --------------- Report Selection List (2) -------------------------
Command ===>                                              Scroll ===> PAGE

Sel Report ID                     -- Last Changed --  User
==> *                             *          *        *
    TTAXQ001-R01                  04/10/2013 10:02:05 GROBER1
    TTAXQ001-R05                  04/10/2013 10:01:42 GROBER1
    TTAXQ001-R10                  04/10/2013 10:01:42 GROBER1
    TTAXQ001-R15                  04/10/2013 10:01:43 GROBER1
    TTAXQ001-R20                  04/10/2013 10:01:43 GROBER1
    TTAXQ001-R25                  04/10/2013 10:01:59 GROBER1
    TTAXQ001-R30                  04/10/2013 10:01:59 GROBER1
    TTAXQ001-R35                  04/10/2013 10:01:59 GROBER1
    TTCDLY01-R06                  09/24/2013 11:08:09 DSTECK1
    TTCDLY01-R10                  09/24/2013 11:08:09 DSTECK1
    TTCDLY02-R01                  02/15/2013 10:00:01 JHASHA1
    TTCMTH02-R01                  09/25/2013 09:41:07 DSTECK1
    TTCMTH02-R02                  09/25/2013 09:41:50 DSTECK1
    TTCMTH02-R03                  09/24/2013 17:20:57 DSTECK1
    TTCMTH02-R04                  09/24/2013 17:21:28 DSTECK1
    TTCMTH02-R05                  09/25/2013 09:42:11 DSTECK1
    TTCMTH02-R06                  09/24/2013 17:19:57 DSTECK1
    TTCMTH02-R07                  09/24/2013 17:20:02 DSTECK1
    TTCMTH02-R08-SUMMARY-DD       09/24/2013 11:20:54 DSTECK1
```

Fields

The following are the fields on the Report Selection List panels and their descriptions:

Sel

Defines the tabular commands in this column.

Report ID

Displays the report identifier.

Description

Displays the description defined to the report.

Last Changed

Displays the date and time when the report identifier was last modified.

User

Displays the user or job that last modified the report identifier.

Input Commands

The following input commands are available on the Report Selection List panels:

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

CONFIRM [ON | OFF]

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

LEFT

Toggles between the two active displays.

LOCATE

Scrolls to the entry whose name you specify as the operand of the command; if the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified.

For sorted lists, the LOCATE command traverses the list based on the first or only sort field.

Valid entries are L, LOC, and LOCATE.

REDISP

Redisplays (or refreshes) a selection list with current information

Because definition and active data can be concurrently updated and added by the started task, batch jobs, and online users, data displayed on a selection list can become outdated. Recent changes and newly added data are obtained when the REDISP command is entered.

The syntax of the REDISP command is as follows:

REDISP [ON | OFF]

Where:

ON

Indicates that the display is to be refreshed automatically when the Enter key is pressed

OFF

Indicates that the REDISP command must be entered to refresh the display

The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.

If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.

For sorted lists, enter the REDISP command to refresh the display.

Valid entries are RED, REDISP, REF, and REFRESH.

RIGHT

Toggles between the two active displays.

SELECT

Selects the report identifier you specify as the operand of the command for display

If the specified report identifier does not exist, an error message displays.

Valid entries are S, SEL, and SELECT.

SORT

Sorts the selection list display by report identifier, date/time entry was last changed, user who last changed entry, or description.

Up to two fields can be sorted.

The syntax of the SORT command is as follows:

SORT field1 field2

The following table identifies the field names that can be referenced on the SORT command and the predefined sort sequence used to order the data.

Report

Sorts by report identifier.

You can enter REPORT as RID or R.

Sort Sequence: Ascending

Changed

Sorts by date/time last changed.

You can enter CHANGED as CHA or C.

Sort Sequence: Descending

User

Sorts by user/job that last changed entry.

You can enter USER as U.

Sort Sequence: Ascending

Desc

Sorts by description.

Sort Sequence: Ascending

To sort the selection list by description, enter the command:

```
sort desc
```

To sort the selection list by user who last changed entry and date/time entry was last changed, enter the command:

```
sort user cha
```

After the list is sorted, you can use the LOCATE command to traverse the list based on the first or only sort field. For example, if the list is sorted by description, LOCATE PROD scrolls the list to the entry or closest entry whose description is PROD.

If the SORT command is entered by itself without a field, the standard dynamic list, which is sequenced by report identifier, displays.

X

Displays the Distribution Xref for Report panel.

Selection Codes

You can select one or more report identifiers for processing by entering one of the selection codes listed in the following table. Enter the selection code to the left of, and on the same line as, the report identifier to be selected.

An individual report identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

A

Activates the report.

D

Deletes the report identifier and all its related references.

H

Displays the historical data for the report.

J

Displays the job data for the job that creates the report.

S

Displays the report definition attributes for the report.

U

Inactivates the report.

UF

Forcibly inactivates the report.

Important! Use UF only as a last resort to clean up entries in a database because some entries can be left on the spool volumes.

Filtering

You can refine or restrict the amount of data displayed on the Report Selection List panel by specifying filtering data for report identifier, date entry was last changed, time entry was last changed, user/job that last changed entry, and report description. Enter filtering data on the line directly following the column headings on the Report Selection List panel.

By default, the filtering fields are set to asterisk (*) except for report identifier, which is filled with the identifier from the R primary command (if specified). When the filtering fields are changed, the selection list redisplays with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria are displayed.

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

Report Definition Attributes Panel

The Report Definition Attributes is used to specify report attributes, which overrides any JCL or output statement attributes.

A report definition attribute is one of a set of parameters you specify for a report on the Report Definition Attributes panel. For example, the LATE report definition attribute indicates the time when a report is to be marked late if it is not queued for printing.

By default, the system uses the attributes specified in the JCL for reports. There is generally no need to specify overrides to the attributes in report definitions. You can, however, want to add or modify some of the non-JCL attributes for reports, for example, late time, archive criteria, report description, and special instructions.

To display the Report Definition Attributes panel, enter the R command followed by a report identifier on the Primary Selection Menu panel, or select a report from the Reports for Job panel, Report Selection List panel, Active Report List panel, Reports for Distid panel, or Bundle Definition Report Specification panel, and press Enter.

The Report Definition Attributes panel has four subpanels:

- Report Bundle Specifications

- Report Distribution Specifications

- Report Identification Text

- Report Special Instructions

```
CA Deliver ------------- Report Definition Attributes ------------------------
Command ===>

  ID      ---> EDITREPT01                    Job     ---> TRJOB01
  Step    ---> EDITSTEP    Procstep --->      DD      ---> EDITLIST
                                              Type    --->
  Desc    ===>
  Arch ID ===>

Attributes:
  ARCH   ===>            BANNER ===>            BURST  ===>
  CC     ===>            CLASS  ===>            COPIES ===>
  FCB    ===>            FORM   ===>            FLASH  ===> (  ,  )
  LATE   ===>            OPTCDJ ===>            UCS    ===>
  FORMDF ===>            PAGEDF ===>            PRMODE ===>
  PRSET  ===>            PRTY   ===>            GRPID  ===>
  CHARS  ===> (     ,      ,     ,     )        MODIFY ===> (  ,  )
  COPYG  ===> (     ,     ,    ,    ,    ,    ,    ,     )

The following attributes may be selected by entering the 1-character selection code
on the command input line:

    B - Bundle specifications.       D - Distribution specifications.
    I - Special instructions.        T - Report identification text.
```

Fields

The following table describes the attribute fields on the Report Definition Attributes panel:

ARCH

Identifies 1 to 99 sets of criteria for archiving reports.

Each set of criteria (which you define by an initialization parameter) specifies the following:

The direct-to-View database and/or the archive medium (disk or tape) that CA View uses to archive a report

The SYSOUT class, destination, and forms name CA Deliver uses to create a copy of a report for transmission to CA View

Values are as follows:

1 to 99

Selects the archiving criteria for your site

O

Suppresses the archiving of a report

Blank

Uses the default value defined by the initialization parameter ARCH

Note: For more information about the ARCH parameter, see the *Reference Guide*.

Arch ID

Specifies the 1- to 32-character archive report identifier. If an Arch ID is provided, the report appears in CA View under that name.

Note: This field is not displayed for dynamic type reports.

BANNER

Specifies the name of the model banner page to print at the beginning and end of a report.

Values are as follows:

*

Suppresses banner page printing

Blank

Prints the default model banner page defined by the initialization parameter BANNER

Note: For more information about the BANNER initialization parameter, see the Reference Guide.

BURST

Indicates whether a report is to be burst into separate sheets when printed on an IBM 3800 printer

Values are as follows:

Y

Indicates to burst the report.

N

Keeps the report intact.

Blank

Indicates to use the value specified in the JCL for the job that creates the report. Blank is the default.

CC

Indicates the type of carriage control characters used in the report.

Values are as follows:

M

Uses machine control characters.

A

Uses ASA control characters.

A single-character identifier

Uses the user-defined set of control characters.

Blank

Uses the carriage control specification from the DCB/ACB for the report. Blank is the default.

CLASS

Specifies the SYSOUT class for the report.

Values are as follows:

A single alphanumeric character

Uses the SYSOUT class character you define.

Blank

Uses the SYSOUT class specified in the JCL for the job that creates the report. Blank is the default.

COPIES

Indicates whether to print the report on single- or multi-part paper.

Valid values are:

Y or Blank—

Uses the copies DD parameter (that specifies the number of grouped distribution identifiers) to write the report to spool

N

Assumes COPIES=1

Note: For more information about the copies DD parameter, see the Reference Guide.

Desc

Specifies the 1- to 40-character brief description of the report.

FCB

Specifies the name of the forms control image used to print a report.

Blank

Uses the forms control image specified in the JCL for the job that creates the report.

FORM

Specifies the name of the special form used to print the report.

Blank

Uses the forms control image specified in the JCL for the job that creates the report.

Note: If OUTPUT JCL statements are not available for processing (that is, if the initialization parameter OUTPUT is set to OUTPUT=NO or is set to its default), only the first four characters of the form are used.

FLASH

Specifies the name of the form overlay used when a report is to be printed on an IBM 3800 printer and the number of copies to be flashed with the overlay.

Blank

Uses the form overlay name and count specified in the JCL for the job that creates the report.

GRPID

Specifies the 1-8 character name of the output group. Groupid is only valid on JES2 systems. If an archival copy of the report is sent to a View FSS collector, this name identifies the member name in the SARINDEX data set which contains archive control statements for the report.

LATE

Specifies the time in a 24-hour hh:mm format when a report is to be marked late if it is not queued for printing.

Example: 09:35 represents 9:35 a.m. and 15:45 represents 3:45 p.m.

Note: When you specify the late time, enter 00:01 (not 00:00) and 23:59 (not 24:00).

Blank

Suppresses the late check.

OPTCDJ

Specifies whether a report contains IBM 3800 printer table reference characters.

Y

Specifies that the report contains IBM 3800 printer table reference characters.

N or Blank

Specifies that the report does not contain IBM 3800 printer table reference characters.

UCS

Specifies the name of the special character set used to print a report.

Blank

Uses the character set name specified in the JCL for the job that creates the report.

FORMDF

Specifies the name of the form definition used to print a report on an IBM 3800 printing subsystem.

Blank

Uses the form definition name specified in the JCL for the job that creates the report. Blank is the default.

Note: If OUTPUT JCL statements are not available for processing (that is, if the initialization parameter OUTPUT is set to OUTPUT=NO or is set to its default), the form definition name is ignored.

PAGEDF

Specifies the name of the page definition used to print a report on an IBM 3800 printing subsystem

Blank

Uses the page definition name specified in the JCL for the job that creates the report. Blank is the default.

Note: If OUTPUT JCL statements are not available for processing (that is, if the initialization parameter OUTPUT is set to OUTPUT=NO or is set to its default), the page definition name is ignored.

PRMODE

Specifies the process mode required to print a SYSOUT data set.

Values are as follows:

LINE

Sends the data set to a line mode printer.

PAGE

Sends the data set to a page mode printer.

Specific 1- to 8-character mode name

Sends the data set to a mode printer defined for your site.

PRSET

Specifies the name of the printer setup member in the database used for a report.

You can use this member to enter XEROX DJDE parameters or any other information you want to precede the report data.

If specified, the printer setup records are appended to the report immediately after the report banner page but before the first record in the report.

Blank

Suppresses the appending of the printer setup records to the report. Blank is the default.

Note: To add PRSET members to the database, use the RMODBASE utility PLOAD control statement, which is described in the Reference Guide.

PRTY

Specifies the priority for a SYSOUT data set to enter the output queue.

You can specify a decimal value between 1 (lowest priority) and 255 (highest priority) or a space or 0. If a space or 0 is entered, it is treated as a null and nullifies any existing PRTY value.

A data set with a higher priority prints sooner.

CHARS

Specifies the names of character arrangement tables used when a report prints on an IBM 3800 printer.

You can specify 1 to 4 names in this field.

Blank

Uses the character arrangement table names specified in the JCL for the job that creates the report.

MODIFY

Specifies the name of the copy modification module and table reference character used when a report prints on an IBM 3800 printer.

Blank

Uses the copy modification module name and table reference character specified in the JCL for the job that creates the report.

COPYG

Specifies the number of copies of each page that are grouped together when a report prints on an IBM 3800 printer.

Blank

Uses the IBM 3800 copy groups specified in the JCL for the job that creates the report.

Input Commands

The following are the input commands available on the Report Definition Attributes panel and their descriptions:

B

Displays the bundle specifications for the report.

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

COPY

Copies definition specifications from another report identifier.

The syntax of the command is as follows:

COPY *id* [ALL]

Where:

Id

Specifies the report identifier from which the specifications are to be copied

ALL

Optionally replaces all of the current report definition specifications with those from the copied report

The report attributes, distribution specifications, identification text, and special instructions are replaced when ALL is specified.

If this parameter is omitted, only the report attributes are copied.

D

Displays the distribution specification for the report.

I

Displays the special instructions for the report.

T

Displays the text specifications for the report.

Report Bundle Specifications Subpanel

The Report Bundle Specifications subpanel is used to add or update bundle references for a report.

To display the Report Bundle Specifications subpanel, enter **B** on the command line of any Report Definition Attributes panel, and press Enter.

The lower portion of the Report Definition Attributes panel is refreshed with the Report Bundle Specifications subpanel.

```
CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010

Command ===>                                             Scroll ===> PAGE

   ID    ---> EDITREPT01                        Job    ---> TRJOB01
   Step  ---> EDITSTEP    Procstep --->         DD     ---> EDITLIST
                                                Type   --->
 Bundle Specifications:
Sel   Bundle Id                    Description




***************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Report Bundle Specifications subpanel and their descriptions:

Sel

Defines the tabular commands in this column.

Bundle ID

Identifies the bundle that the report is defined to.

Note: Although the report is defined to the bundle, this does not necessarily mean that the report is bundled. To bundle the report, define a corresponding distribution identifier to the bundle that matches the distribution identifier in the report distribution specification.

Description

Displays the description field defined to the bundle.

Input Commands

The following input commands are available on the Report Bundle Specifications subpanel:

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

CONFIRM [ON | OFF]

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

COPY

Copies definition specifications from another report identifier.

The syntax of the command is as follows:

COPY id

Where:

id

Specifies the report identifier from which the specifications are to be copied.

Specify the A or B selection code to identify the destination of the copy.

COPYLIST

Displays a copylist subpanel from which you can choose from available lists of distribution IDs to copy without reentering existing information.

D

Displays the distribution specifications for the report.

FIND

Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel.

The syntax of the FIND command is as follows:

FIND string column [FIRST | NEXT | LAST | PREV] NOT

Valid entries are F and FIND.

The string specification identifies the search data. The string is matched against data starting in the first character of the search column.

The FIND command does not locate data that is embedded within the column. If the string contains special characters, enclose the string within quotation marks.

The column name specification identifies the field that is to be searched. If omitted, the bundle identifier (BUNDLE) field is searched.

The following columns can be searched:

BUNDLE

> Bundle identifier.

> You can enter BUNDLE as BID or B. If a column name is not specified, BID is assumed.

DESC

> Bundle description.

> The location specification identifies the origin and direction of the search. If omitted, the search begins with the row at the top of the current display. The location specifications are as follows:

FIRST

> Starts the search at the beginning of the table and proceeds forward to the end of the table.

NEXT

> Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table.

LAST

> Starts the search at the end of the table and proceeds backward to the beginning of the table.

PREV

> Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table.

> The NOT specification indicates that the column is to be searched for data that is not equal to the string specified on the FIND command.

> **Note:** For more information about the FIND command, see Input Commands in the chapter "Basics."

I

> Displays the special instructions for the report.

RFIND

> Locates the next occurrence of a previously issued FIND command.
>
> If another occurrence is not found, a not-found message displays. Typically, PF5 and PF17 are defined as the RFIND key.

SORT

> Sorts the report bundle specifications by bundle identifier.
>
> The bundle identifiers are sorted in ascending sequence. If bundle identifiers are grouped, the group is sorted first and then merged into the list based on the first bundle identifier in the group.
>
> Note: The list of bundle specifications is saved in the new sequence after sorting. If this sequence is not what you want, enter the CANCEL command to ignore the changes.

T

Displays the text specifications for the report.

Selection Codes

You can select one or more bundle identifiers for processing by entering the selection code listed in the following table. Enter the selection code to the left of, and on the same line as, the bundle identifier to be selected.

An individual bundle identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

The Report Bundle Specifications panel also supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries. For more information, see the section Tabular Commands in the chapter "Basics."

S

> Displays the bundle definition for the bundle identifier.

Report Distribution Specifications Subpanel

The Report Distribution Specifications subpanel is used to add or update the method of receiving a report.

■   To display the Report Distribution Specifications subpanel, enter **D** on the command line of the Report Definition Attributes panel, and press Enter.

The lower portion of the Report Definition Attributes panel is refreshed with the Report Distribution Specifications subpanel.

```
CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00003
Command ===>                                                Scroll ===> PAGE

  ID    ---> EDITREPT01                      Job   ---> TRJOB01
  Step  ---> EDITSTEP    Procstep --->        DD    ---> EDITLIST
                                              Type  --->
 Distribution Specifications:                          Writer/   Days
Sel Grp Distribution ID              Out Dest          Eformat  MTWTFSS
        D27PROD                        Y                         YYYYYYY
        D29ACCT                        Y                         YYYYYYY
        D27SYSP4                       Y                         YYYYYYY


***************************** Bottom of Data ******************************
```

■   The Report Distribution Specifications subpanel provides a secondary display that shows additional report information. The Report Distribution Specifications subpanel toggles between the two displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
CA Deliver ----------- Report Definition Attributes (2) ---- Row 00001 of 00003
Command ===>                                                Scroll ===> PAGE

  ID     ---> EDITREPT01                     Job   ---> TRJOB01
  Step   ---> EDITSTEP    Procstep --->       DD    ---> EDITLIST
                                              Type  --->
 Distribution Specifications:
Sel Grp Distribution ID            Out Copies Rview Reprt Del
        D27PROD                     Y   1       N     Y     Y
        D29ACCT                     Y   1       N     Y     Y
        D27SYSP4                    Y   1       N     Y     Y
***************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Report Distribution Specifications subpanel and their descriptions:

Sel

Defines the tabular commands in this column

Grp

Indicates that the distribution identifier is to be grouped with the previous identifier.

Enter any character or leave this field blank to indicate that the distribution identifier is not to be grouped.

Distribution ID

Identifies the report recipient.

Out

Specifies whether output is to be printed, tracked, untracked for view only, or emailed.

Values are as follows:

T

Creates tracked, view-only output

Y

Creates printed output

N

Creates view-only output (not printed or tracked)

E

Sends email notification to recipient

Dest

Specifies a destination where the report is to be printed .

Blank

Accepts the value specified in the JCL. Blank is the default.

Writer/ EFormat

Specifies the name of an external writer to process the report.

Blank

Accepts the value specified on the Distribution Data panel or in the JCL used to create the report

'*' —If specified for this field, the external writer name specified in the JCL for the job that creates the report is ignored, and the report is printed without the external writer.

For reports that are being emailed (Out field set to E), this field specifies the name of the EFORMAT member to be used to format the email notification. If omitted, the EFORMAT member defined to the distribution identifier or defined on the EFORMAT initialization parameter is used.

Days MTWTFSS

Specifies the days of the week from Monday to Sunday that printed output or email notification can be generated.

Valid values for each of the days of week are as follows:

Y

Allows printed output or email notification

N

Prevents printed output or email notification

The default for days is YYYYYYY.

The day of the week by default is based on the day that the job was submitted and the setting of the BEGINDAY initialization parameter. Jobs submitted before the BEGINDAY setting is considered part of the previous day's cycle.

Copies

Specifies the number of copies to be sent to the recipient.

Rview

Specifies whether the recipient has restricted viewing privileges for the report within CA View, which provides viewing through non secured logical views and prevents the use of the VIEW command.

Valid values are Y, N, and Blank.

Reprt

Specifies whether recipients can reprint the report within CA View.

Valid values are Y, N, and Blank.

Del

Specifies whether recipients can delete the archived version of the report or alter the archive status within CA View.

Values are as follows:

Y

Permits recipients to delete the archived version of the report or alter the archive status.

N

Prevents recipients from deleting the report or altering the archive status

Input Commands

The following input commands are available on the Report Distribution Specifications subpanels:

B

Displays the bundle specifications for the report.

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

CONFIRM [ON | OFF]

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

COPY

Copies definition specifications from another report identifier

The syntax of the command is as follows:

COPY id

Where:

id

Specifies the report identifier from which the specifications are to be copied.

Specify the A or B selection code to identify the destination of the copy.

FIND

Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel.

The syntax of the FIND command is as follows:

FIND string column [FIRST | NEXT | LAST | PREV] NOT

You can enter the FIND command as F.

String identifies the search data. The string is matched against data starting in the first character of the search column.

The FIND command does not locate data that is embedded within the column.

If the string contains special characters, enclose the string within quotation marks.

Column identifies the field that is to be searched. If omitted, the distribution identifier (DISTID) column is searched.

The following columns can be searched:

DISTID

> Distribution Identifier.
>
> You can enter DISTID as DID or D. If a column name is not specified, DISTID is assumed.

GROUP

> Group indicator.
>
> You can enter GROUP as GRP.

OUT

> Output indicator.

DEST

> Report destination.

WRITER

> External writer.
>
> You can enter WRITER as WTR.

DAYS

> Distribution days.

COPIES

> Output copies.

RVIEW

> CA View logical view restriction indicator.

REPRT

> CA View reprint restriction.

DEL

> CA View delete restriction.

The location specification identifies the origin and direction of the search. If omitted, the search begins with the row at the top of the current display. The location specifications are as follows:

FIRST

Starts the search at the beginning of the table and proceeds forward to the end of the table.

NEXT

Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table.

LAST

Starts the search at the end of the table and proceeds backward to the beginning of the table.

PREV

Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table.

The NOT specification indicates that the column is to be searched for data that is not equal to the string specified on the FIND command.

Note: For more information about the FIND command, see Input Commands in the chapter "Basics."

I

Displays the special instructions for the report.

LEFT

Toggles between the two active displays.

RFIND

Locates the next occurrence of a previously issued FIND command

If another occurrence is not found, a not-found message displays. Typically, PF5 and PF17 are defined as the RFIND key.

RIGHT

Toggles between the two active displays.

SORT

Sorts the report distribution specifications by distribution identifier.

The distribution identifiers are sorted in ascending sequence. If distribution identifiers are grouped, the group is sorted first and then merged into the list based on the first distribution identifier in the group.

Note: The list of distribution specifications is saved in the new sequence after sorting. If this sequence is not what you want, enter the CANCEL command to ignore the changes.

T

Displays the text specifications for the report.

Selection Codes

You can select one or more distribution identifiers for processing by entering the selection code listed in the following table. Enter the selection code to the left of, and on the same line as, the distribution identifier to be selected.

An individual distribution identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

The Report Distribution Specifications panel also supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries. For more information, see the section Tabular Commands in the chapter "Basics."

S

Displays the distribution data for the distribution identifier.

Report Distribution Specifications Subpanel (DYNAM Report)

The Report Distribution Specifications subpanel for a dynamic report defines variable and distribution specifications that determine the naming of reports and distribution identifiers based on the content of the report data.

- The variable specifications associate names to fixed locations of data on a page.

- The distribution specifications identify the report and distribution names to be assigned to the page data.

These names can be derived from variable names, system variables, or fixed text. The report pages are distributed and printed under the dynamically generated report and distribution name. Archival copies are created for each uniquely generated report name.

■ To display the Report Distribution Specifications subpanel, enter D on the command line of the Report Definition Attributes panel, and press Enter.

The lower section of the Report Definition Attributes panel is refreshed with the Report Variable and Distribution Specifications subpanel.

```
  CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00002
  Command ===>                                            Scroll ===> PAGE

   ID     ---> TRJOB02-D01                      Job    ---> TRJOB02
   Step   ---> UPDTSTEP     Procstep --->        DD     ---> REPTS
                                                Type   ---> DYNAM
   Variable Specifications:
  Sel Name     Line  Column Length
     REGION   2     8      2




   Distribution Specifications:                         Writer/   Days
  Sel Type Report/Distribution ID         Out Dest     Eformat  MTWTFSS
     REPT QTRLY REG&REGION
     DIST REG&REGION                          Y                  YYYYYYY
  ***************************** Bottom of Data *****************************
```

■ The Report Distribution Specifications subpanel provides a secondary display that shows additional report information. The Report Distribution Specifications subpanel toggles between the two displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
  CA Deliver ----------- Report Definition Attributes (1) ---- Row 00001 of 00002
  Command ===>                                            Scroll ===> PAGE

   ID     ---> TRJOB02-D01                      Job    ---> TRJOB02
   Step   ---> UPDTSTEP     Procstep --->        DD     ---> REPTS
                                                Type   ---> DYNAM
   Variable Specifications:
  Sel Name     Line  Column Length
     REGION   2     8      2




   Distribution Specifications:
  Sel Type Report/Distribution ID       Out Copies Rview Reprt Del
     REPT QTRLY REG&REGION
     DIST REG&REGION                      Y   1     N    Y    Y
  ***************************** Bottom of Data *****************************
```

System Variables

To facilitate the creation of unique and meaningful report and distribution names, system variables that contain job, system, and report related information are supported.

The system variable names that can be used in the report or distribution name are as follows:

DATE

Substitutes the date in the form yyyymmdd when Deliver processed the report.

DAY

Substitutes the 2- digit day of the month when Deliver processed the report

DD

Substitutes the JCL DD name used to produce the report.

JID

Substitutes the job identifier of the job that produced the report.

JOB

Substitutes the name of the job that produced the report.

JULDATE

Substitutes the Julian date in the form yyyyddd when Deliver processed the report.

MONTH

Substitutes the 2- digit month when Deliver processed the report.

SYSID

Substitutes the system identifier where the report was produced.

USERID

Substitutes the userid of the creating job.

WEEKDAY

Substitutes the three-character day of the week (MON, TUE, WED, THU, FRI, SAT, or SUN) when Deliver processed the report.

WRITER

Substitutes the external writer name of the report.

YEAR

Substitutes the four-digit year when Deliver processed the report.

Fields

The following are the fields on the Report Distribution Specifications subpanel and their descriptions:

Sel

Defines the tabular commands in this column.

Name

Defines the name of the variable to be used to reference data on the report page.

Specifies a 1 to 8 character name that consists of alphabetic, numeric, or national (@, #, or $) characters. The first character must start with an alphabetic or national character.

Line

Specifies the line number (1 to 255) where variable data is to be extracted from the page.

Column

Specifies the beginning column number (1 to 32760) where variable data is to be extracted from the page.

Note: Column number does not include the carriage control character.

Length

Specifies the length (1 to 32) of the variable data.

Type

Identifies the type of name that is being assigned.

Values are as follows:

REPT

Indicates that a report name is being assigned.

Can be abbreviated as "R" on input.

DIST

Indicates that a distribution name is being assigned.

Can be abbreviated as "D" on input.

A REPT entry must be defined first followed by the associated DIST entries for the report entry. Multiple DIST entries can be specified for a given report entry and multiple sets of REPT and DIST entries can also be specified.

Note: The Out, Dest, Writer/Eformat, Day MTWTFSS, Copies, Rview, Reprt, and Del fields are only applicable to DIST entries.

Report/Distribution ID

Specifies a 1 to 32 character name that identifies the report or distribution name (determined by the Type field) for the report pages.

The name is composed of text characters, variable names defined in variable specifications, and/or system variable names.

– Variable names and system variable names are prefixed with an ampersand (&).

– If the variable name is followed by an alphanumeric or national text character, add a period (.) to the end of the variable name.

– If an ampersand is to be used as a text character in a name, specify that character as two ampersands (&&).

During distribution the variable name(s) are replaced with the associated variable data. Leading and trailing blanks are removed from the variable data before substitution.

– If the resulting variable data is blank, a period (.) is substituted.

– If the report or distribution name after substitution exceeds 32 characters, the name is truncated.

Out

Specifies whether output is to be printed, tracked, untracked for view only, or emailed.

Values are as follows:

T

Creates tracked, view-only output

Y

Creates printed output

N

Creates view-only output (not printed or tracked)

E

Sends email notification to recipient

Dest

Specifies a destination where the report is to be printed.

Blank

Accepts the value specified in the JCL. Blank is the default

Writer/ EFormat

Specifies the name of an external writer to process the report.

Blank

> Accepts the value specified on the Distribution Data panel or in the JCL used to create the report

'*' —If specified for this field, the external writer name specified in the JCL for the job that creates the report is ignored, and the report is printed without the external writer.

For reports that are being emailed (Out field set to E), this field specifies the name of the EFORMAT member to be used to format the email notification. If omitted, the EFORMAT member defined to the distribution identifier or defined on the EFORMAT initialization parameter is used.

Days MTWTFSS

> Specifies the days of the week from Monday to Sunday that printed output or email notification can be generated.

> Valid values for each of the days of week are as follows:

> **Y**

>> Allows printed output or email notification

> **N**

>> Prevents printed output or email notification

> The default for days is YYYYYYY.

> The day of the week by default is based on the day that the job was submitted and the setting of the BEGINDAY initialization parameter. Jobs submitted before the BEGINDAY setting is considered part of the previous day's cycle.

Copies

> Specifies the number of copies to be sent to the recipient.

Rview

> Specifies whether the recipient has restricted viewing privileges for the report within CA View, which provides viewing through non-secured logical views and prevents the use of the VIEW command.

> Valid values are Y, N, and Blank.

Reprt

> Specifies whether recipients can reprint the report within CA View.

> Valid values are Y, N, and Blank.

Del

> Specifies whether recipients can delete the archived version of the report or can alter the archive status within CA View.

Values are as follows:

Y

Permits the recipients to delete the archived version of the report or alter the archive status.

N

Prevents the recipients from deleting the report or altering the archive status.

Input Commands

The following input commands are available on the Report Distribution Specifications subpanels:

B

Displays the bundle specifications for the report.

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

CONFIRM [ON | OFF]

Where:

ON

Enables the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Disables the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

COPY

Copies variable or definition specifications from another report identifier

The syntax of the command is as follows:

COPY id

Where:

id

> Specifies the report identifier from which the specifications are to be copied.

> Specify the A or B selection code to identify the destination of the copy.

FIND

> Scans columnar data for a string of characters in the distribution specification section, then scrolls to and displays the entry at the top of the panel.

> The syntax of the FIND command is as follows:

> FIND string column [FIRST | NEXT | LAST | PREV] NOT

> You can enter the FIND command as F.

> The string identifies the search data and is matched against data starting in the first character of the search column.

> The FIND command does not locate data that is embedded within the column.

> If the string contains special characters, enclose the string within quotation marks.

> Column identifies the field that is to be searched. If omitted, the distribution identifier (DISTID) column is searched.

> The following columns can be searched:

> **DISTID**

>> Distribution Identifier.

>> You can enter DISTID as DID or D. If a column name is not specified, DISTID is assumed.

> **OUT**

>> Output indicator.

> **DEST**

>> Report destination.

> **WRITER**

>> External writer.

>> You can enter WRITER as WTR.

> **DAYS**

>> Distribution days.

> **COPIES**

>> Output copies.

RVIEW

CA View logical view restriction indicator.

REPRT

CA View re-print restriction.

DEL

CA View delete restriction.

The location specification identifies the origin and direction of the search. If omitted, the search begins with the row at the top of the current display. The location specifications are as follows:

FIRST

Starts the search at the beginning of the table and proceeds forward to the end of the table.

NEXT

Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table.

LAST

Starts the search at the end of the table and proceeds backward to the beginning of the table.

PREV

Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table.

The NOT specification indicates that the column is to be searched for data that is not equal to the string specified on the FIND command.

Note: For more information about the FIND command, see the section Input Commands (see page 36).

I

Displays the special instructions for the report.

LEFT

Toggles between the two active displays.

RFIND

Locates the next occurrence of a previously issued FIND command

If another occurrence is not found, a not found message displays. Typically, PF5 and PF17 are defined as the RFIND key.

RIGHT

Toggles between the two active displays.

SORT

Sorts the report distribution specifications by report name and distribution name within the report name.

Note: The list of distribution specifications is saved in the new sequence after sorting. If this sequence is not what you want, enter the CANCEL command to ignore the changes.

T

Displays the text specifications for the report.

Selection Codes

You can select one or more distribution identifiers for processing by entering the selection code listed as follows. Enter the selection code to the left of, and on the same line as, the distribution identifier to be selected.

An individual distribution identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

The Report Distribution Specifications panel also supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries.

Note: For more information, see the section Tabular Commands (see page 43).

S

Displays the distribution data for the distribution identifier.

The select command is only supported for the DIST entries that do not have substitutable variables.

Report Special Instructions Subpanel

The Report Special Instructions subpanel is used to add special handling instructions, or update existing special handling instructions for this report that can be printed on the banner page.

- To display the Report Special Instructions subpanel, enter **I** on the command line of any Report Definition Attributes panel, and press Enter.

  The lower portion of the Report Definition Attributes panel is refreshed with the Report Special Instructions subpanel.

```
 CA Deliver ------------- Report Definition Attributes ------ Row 00001 of 00010
 Command ===>                                                Scroll ===> PAGE

   ID     ---> EDITREPT01                        Job    ---> TRJOB01
   Step   ---> EDITSTEP    Procstep --->         DD     ---> EDITLIST
                                                 Type   --->
  Special Instructions:
 Sel Instruction








 ****************************** Bottom of Data *******************************
```

Fields

The following are the fields on the Report Special Instructions subpanel and their descriptions:

Sel

Defines the tabular commands in this column.

Instruction

Specifies the instructions that print on the banner page.

Use single quotation marks only if you want them to print on the banner page.

Input Commands

The following are the input commands available on the Report Special Instructions subpanel and their descriptions:

B

Displays the bundle specifications for the report.

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

COPY

Copies definition specifications from another report identifier.

The syntax of the command is as follows:

COPY *id*

Where:

Id

Specifies the report identifier from which the specifications are to be copied

Specify the A or B selection code to identify the destination of the copy.

D

Displays the distribution specifications for the report.

T

Displays the text specifications for the report.

Selection Codes

The Report Special Instructions panel supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries.

Note: For more information, see the section Tabular Commands in the chapter "Basics."

Report Identification Text Subpanel

The Report Identification Text subpanel is used to add text separation criteria or update existing text separation criteria for a report in stacked reporting.

To display the Report Identification Text subpanel, enter **T** on the command line on the Report Definition Attributes panel, and press Enter.

The lower portion of the Report Definition Attributes panel is refreshed with the Report Identification Text subpanel.

```
 CA Deliver ------------- Report Definition Attributes ----- Row 00001 of 00010


 Command ===>                                           Scroll ===> PAGE

   ID     ---> EDITREPT01                         Job    ---> TRJOB01
   Step   ---> EDITSTEP    Procstep --->          DD     ---> EDITLIST
                                                  Type   --->
 Report Identification Text:
           Line      Column                                   Cols 001 046
 Sel Typ R Op Beg End Beg    End    Text




 ****************************** Bottom of Data *******************************
```

Fields

The following are the fields on the Report Identification Text subpanel and their descriptions:

Sel

Defines the tabular commands in this column.

Type

Specifies the type of text string to be used to select the segment.

Values are as follows:

X or XCL

Specifies the beginning of an exclusive segment

P or PAG

Specifies the page segment

B or BEG

Specifies the beginning of an overlapping segment

E or END

Specifies the end of an overlapping segment

A or AND

Specifies the text string used with a previous text string to select the beginning or end of a segment. The character "&" can also be used.

O or OR

Specifies the text string used to select the beginning or end of a segment if a previously associated string is not found. The character "|" can also be used.

AOR

Specifies the text string used as an 'OR' condition for the previous statement.

Reus

Specifies a reusability indicator.

Values are as follows:

Y

Indicates the text string (X, P, or B in Type field) can be used to select another segment

N

Indicates the text string cannot be reused

Note: If E, A, O or AOR is entered under Type, the Reus field is ignored.

Op

Specifies text string value.

Values are as follows:

EQ, =, or blank = equal to

NE or ^= not equal to

LT or < less than

GT or > greater than

LE or <= less than or equal to

GE or >=greater than or equal to the text string specified under Text

For the EQ, LT, LE, GT, and GE operators, the search text is compared against each column within the column and line range. If the comparison of any column matches the specified operator, the evaluation is considered true. For the NE operator, the evaluation is considered true if the search text is not found anywhere within the column and line range.

Line

Specifies the beginning and ending line number (1 to 255) where the text string search..

*—specified in beg line indicates that all lines up to a maximum of 255 lines per page are searched.

Column

Specifies the beginning and ending column (1–32760) where the text string search.

*—specified in beg column indicates that all columns are searched.

Text

Specifies the text string used in the comparison.

You can scroll the Text field sideways, left to right and right to left. The COLS field indicates the text field column range.

Use single quotation marks only if they are to be included in the search.

Input Commands

The following are the input commands available on the Report Identification Text subpanel and their descriptions:

B

> Displays the bundle specifications for the report.

CANCEL

> Terminates the current display and displays the previous panel; changed data is not saved.
>
> Valid entries are CAN and CANCEL.

COPY

> Copies definition specifications from another report identifier.
>
> The syntax of the command is as follows:
>
> COPY *id*
>
> Where:
>
> **Id**
>
> > Specifies the report identifier from which the specifications are to be copied
> >
> > Specify the A or B selection code to identify the destination of the copy.

COPYLIST

> Displays a copylist subpanel from which you can choose from available lists of bundle IDs to copy without reentering existing information.

D

> Displays the distribution specifications for the report.

I

> Displays the special instructions for the report.

Selection Codes

The Report Identification Text subpanel supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries.

Note: For more information about selection codes, see the section Tabular Commands in the chapter "Basics." Tabular Commands in Chapter 3, "Basics"

Control Break Identification and User Field Identification Subpanel

The Control Break Identification subpanel is used to define the location within a report where separator pages are to be inserted for control breaks.

The User Field Identification is used to define which portions of the data within the report are to be extracted for insertion on the separator pages.

To display the Control Break Identification and User Field Identification subpanels, enter T on the command line from the Report Special Instructions subpanel, and press Enter.

The lower portion of the Report Definition Attributes panel is refreshed with the Control Break Identification and User Field Identification subpanels.

```
CA Deliver ------------- Report Definition Attributes -----------------------
 Command ===>

   ID     ---> U50500-R01                        Job     ---> U50500
   Step   ---> QSALESTP    Procstep --->          DD      ---> QREPORT
                                                  Type    ---> CNTL


 Control Break Identification:
    Line  :                  Normalized: YES
    Col   :                  Separator : SEPARATE
    Length:


 User Field Identification:
            Line   Col   Length              Line   Col   Length
    Field 1:                        Field 2:
    Field 3:                        Field 4:
    Field 5:                        Field 6:
    Field 7:                        Field 8:
    Field 9:
```

Fields

The following are the fields on the Control Break Identification subpanel and their descriptions:

Line

Specifies the line (1 to 255) where a search for a text string begins.

Normalized

Indicates whether leading blanks in the text are to be ignored.

Values are as follows:

Y or blank

Specifies that leading blanks in the text string are to be ignored

N

Specifies that leading blanks are not to be ignored

Col

Specifies the column (1–255) where a search for a text string begins.

Separator

Specifies the name of the separator page.

You can use the name of the separator page defined for your site or the use the default name, SEPARATE.

Length

Specifies the number of characters (1 to 255) in a text string.

User Field Identification

Specifies the line, column, and length of 1 to 9 text strings to be extracted from data set pages and printed on separator pages.

Input Commands

The following are the input commands available on the Control Break Identification subpanel and their descriptions:

B

Displays the bundle specifications for the report.

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

COPY

Copies definition specifications from another report identifier.

The syntax of the command is as follows:

COPY *id*

Where:

Id

Specifies the report identifier from which the specifications are to be copied

D

Displays the distribution specifications for the report.

I

Displays the special instructions for the report.

Report Historical Data Panel

The Report Historical Data panel is used to display the following historical data for a selected report:

■ The generation (the 24-hour period starting at the time specified in the TIME initiation parameter) when the report was executed and the number of times in the generation that the report was created

■ The name and job identifier for the job that created the report

■ The number of records and pages created and queued for printing

■ The date and time when the report was queued for printing

Note: For more information about report historical data, see the chapter "Obtaining Historical Data.

■ To display the Report Historical Data panel, enter H in the Sel column on the Reports for Job panel, Report Selection List panel, or Active Report List panel, and press Enter.

```
CA Deliver - Report Historical Data ----------------------- Row 00001 of 00005
  Command ===>                                                Scroll ===> PAGE

    ID    ---> TRJOB01-R01

Sel Gen Jobname  Jobid            Lines   Pages -- Print Queued --   Prevrun
    +0 TRJOB01  JOB07400           523      15 11/10/2013 15:34:30
    -1 TRJOB01  JOB02379           562      16 11/10/2013 09:46:48
    -2 TRJOB01  JOB05263           495      14 11/09/2013 10:32:07
    -2 TRJOB01  JOB05261            61       2 11/09/2013 10:31:12
    -2 TRJOB01  JOB05219           130       3 11/09/2013 10:07:43
****************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Report Historical Data panel and their descriptions:

Sel

Defines the tabular commands in this column.

Gen

Specifies the number of times in the generation the report was created.

+0 is the current generation.

Jobname

Specifies the job name associated with the report.

Jobid

Specifies the JES job number associated with the report.

Lines

Specifies the number of print lines queued for the report.

Pages

Specifies the number of print pages queued for the report.

Print Queued

Specifies the date and time when the report was queued to print.

Prevrun

Specifies that reports from the most recently run job for CA Deliver and CA View are to be flagged, deleted, or left unprocessed.

Selection Codes

You can select one or more report identifiers for processing by entering the selection code listed as follows. Enter the selection code to the left of, and on the same line as, the report identifier to be selected.

S

Displays the detailed historical data for the report.

Report Detail Historical Data Panel

The Report Detail Historical Data panel is used to display the following detailed historical data for a selected report:

- The history detail number

- The distribution identifier or recipient of the report and bundle identifier

- The assigned tracking number

- The group distribution identifier

- The stations to which reports are posted

- The date and time when the report was queued for printing

- The number of lines and pages printed at the station

  Note: For more information about report detail historical data, see the chapter "Obtaining Historical Data."

- To display the Report Detail Historical Data panel, enter **S** in the Sel column on the Report Historical Data panel, and press Enter.

```
 CA Deliver ----------- Report Detail Historical Data (1) --- Row 00001 of 00010
 Command ===>                                              Scroll ===> PAGE

   ID     ---> TRJOB01-R01
   Job    ---> TRJOB       Jobid   ---> JOB07400   Generation  ---> +0

Sel Hdn          Distribution ID             G Station  Date      Time
    0000002513 D27MGR                           R05.PR2  10/16/2013 08:35
                                                B&D      10/15/2013 09:46
                                                COURIER  10/15/2013 10:14
                                                DROPOFF  10/15/2013 09:47
                                                SHREDDER 10/16/2013 10:48
    0000002876 D27DIR                           PRINTR5  10/15/2013 07:37
                                                B&D      10/15/2013 08:36
                                                COURIER  10/15/2013 09:46
                                                DROPOFF  10/15/2013 10:47
                                                SHREDDER 10/17/2013 09:48
****************************** Bottom of Data ******************************
```

- The Report Detail Historical Data panel provides a secondary display that shows additional report information. The Report Detail Historical Data panel toggles between the two displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
 CA Deliver ----------- Report Detail Historical Data (2) --- Row 00001 of 00010
 Command ===>                                          Scroll ===> PAGE

   ID     ---> TRJOB01-R01
   Job    ---> TRJOB      Jobid   ---> JOB07400   Generation  ---> +0


                                                 User Data
Sel Hdn         Bundle ID                   Bsn Station  (Lines Pages)
    0000002513 D902B1                       013 R05.PR2   1564   300
                                                B&D       CHERYL
                                                COURIER   JIM
                                                DROPOFF   EVELYN
                                                SHREDDER  BILL
    0000002876                                  PRINTR5   1564   300
                                                B&D       TOM
                                                COURIER   MARY
                                                DROPOFF   JANE
                                                SHREDDER  RALPH
***************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Report Detail Historical Data panels and their descriptions:

Sel

Defines the tabular commands in this column.

Hdn

Specifies the history detail number.

Distribution ID

Specifies the distribution identifier of the recipient of the report.

G

Indicates whether a distribution identifier groups the report.

Station

Specifies the tracking station names where the report or bundle is posted.

The first entry listed is the printer identifier from JES.

Note: An asterisk indicates that the report has been printed.

Date

Specifies the date when the report was posted at the station.

Time

Specifies the time when the report was posted at the station.

Bundle ID

Specifies the bundle identifier.

Bsn

Specifies the sequential system-assigned tagging and tracking number.

User Data/(Lines Pages)

Specifies the name of the user requesting the data; if the station shown is a printer, prints the number of lines and pages.

Input Commands

The following are the input commands available on the Report Detail Historical Data panel and their descriptions:

LEFT

Toggles between the two active displays.

RIGHT

Toggles between the two active displays.

Tn

Updates manually the date, time, and user field for a station of a report.

Enter the Tn command as follows:

Tn hdn date time data

Where:

N

Identifies the station by number from 1 to 5. If omitted, the first station is assumed.

Hdn

Identifies the history detail number. Leading zeros are not required.

Date

Indicates the date to be set for the specified station in the default date format.

Specify an asterisk (*) to use the current date.

Specify a comma (,) to retain the current station date.

Time

Indicates the time to be set for the specified station.

Specify an asterisk (*) to use the current time.

Specify a comma (,) to retain the current station time.

Data

Identifies information associated with the posting of the station

If omitted, the logon user ID is used.

If data contains special ID characters or blanks, enclose them quotes.

Selection Codes

You can post one or more stations by entering one of the selection codes listed as follows. Enter the selection code to the left of, and on the same line as, the station to be posted. The first station for each Hdn is always the printer station and cannot be posted or deleted.

T

Posts the station with the date, time, and user data.

You can enter the date and time to identify a unique date and time.

Blank uses the current date and time.

You can also enter data in the user field. If no data is entered in the user field, the logon user ID is inserted.

TD

Deletes to posted station information.

Distribution Xref for Report Panel

The Distribution Xref for Report panel is used to show the distribution specifications for a report.

■ To display the Distribution Xref for Report panel, enter the X tabular command in the Sel column of the Report Selection List or Reports for Job panel, and press Enter.

```
CA Deliver - Distribution Xref for Report (1) -------------- Row 00001 of 00004
Command ===>                                            Scroll ===> PAGE

  ID    ---> U90927-R01
                                                  Writer/   Days
Sel Distribution ID            Out C Dest         Eformat   MTWTFSS
==> *                          *   * *            *         *
    D27PRES                    N                            YYYYYYY
    D27PROD                    Y     LOCAL                  YYYYYYY
    D27SYSP                    Y                            YYYYYYY
    D27VPRES                   N                            YYYYYYY
***************************** Bottom of Data ******************************
```

■ The Distribution Xref for Report panel provides two additional displays that show more report information. The Distribution Xref for Report panel toggles between the displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
CA Deliver - Distribution Xref for Report (2) -------------- Row 00001 of 00004
Command ===>                                            Scroll ===> PAGE

  ID    ---> U90927-R01

Sel Distribution ID            Out Copies Rview Reprt Del
==> *                          *          *     *     *
    D27PRES                    N   1       N     Y     Y
    D27PROD                    Y   1       Y     Y     Y
    D27SYSP                    Y   1       Y     Y     Y
    D27VPRES                   N   1       N     Y     N
***************************** Bottom of Data ******************************
```

```
 CA Deliver - Distribution Xref for Report (3) -------------- Row 00001 of 00004
  Command ===>                                          Scroll ===> PAGE

   ID    ---> U90927-R01

Sel Distribution ID              Bundle ID
==> *                            *
    D27PRES
    D27PROD                      D27BNDL
    D27SYSP
    D27VPRES
***************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Distribution Xref for Report panels and their descriptions:

Sel

Defines the tabular commands in this column.

Distribution ID

Identifies the report recipient.

Out

Indicates whether output is to be printed, tracked, untracked for view only, or emailed.

Values are as follows:

T

Creates tracked, view-only output

Y

Creates printed output

N

Creates view-only output (not printed or tracked)

E

Sends email notification to recipient

C

Identifies the distribution SYSOUT class to be used for printing the report.

If SYSOUT class is blank, the report is printed to the SYSOUT class reference in the JCL used to create the report.

Dest

Identifies the distribution destination where the report is to be printed.

If blank, the report is routed to the destination in the JCL used to create the report.

Writer/EFORMAT

Specifies the name of an external writer to process the report.

Blank

Accepts the value specified on the Distribution Data panel or in the JCL used to create the report

*' —If specified for this field, the external writer name specified in the JCL for the job that creates the report is ignored, and the report is printed without the external writer.

For reports that are being emailed (Out field set to E), this field specifies the name of the EFORMAT member to be used to format the email notification. If omitted, the EFORMAT member defined to the distribution identifier or defined on the EFORMAT initialization parameter is used.

Days MTWTFSS

Specifies the days of the week from Monday to Sunday that printed output or email notification can be generated.

Valid values for each of the days of week are as follows:

Y

Allows printed output or email notification

N

Prevents printed output or email notification

The default for days is YYYYYYY.

The day of the week by default is based on the day that the job was submitted and the setting of the BEGINDAY initialization parameter. Jobs submitted before the BEGINDAY setting is considered part of the previous day's cycle.

Copies

Specifies the number of printed copies of the report to be sent to the recipient.

Enter an asterisk to accept the value in the JCL.

Rview

Indicates whether the recipient has restricted viewing privileges for the report within CA View, which provides viewing through non secured logical views and prevents the use of the VIEW command.

Values are as follows:

Y

Recipient can only access the report with a non secured logical view and is prohibited from using the VIEW command

N

Recipient can access the report through any logical view and can use the VIEW command to create or change the logical view

Reprt

Indicates whether the recipient can reprint the report within CA View.

Values are as follows:

Y

Recipient can reprint the report

N

Recipient is not allowed to reprint the report

Del

Indicates whether the recipients can delete the archived version of the report or alter the archive status within CA View.

Values are as follows:

Y

Permits recipients to delete the archived version of the report or alter the archive status

N

Prevents recipients from deleting the report or altering the archive status

Bundle ID

Identifies the bundle that the report is included in.

Note: Bundles defined with generic distribution specification ('*') are not listed.

Input Commands

The following input commands are available on the Distribution Xref for Report panels:

LEFT

Toggles between the three active displays.

LOCATE

Scrolls to the entry whose name you specify as the operand of the command; if the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified.

For sorted lists, the LOCATE command traverses the list based on the first or only sort field.

Valid entries are L, LOC, and LOCATE.

RIGHT

Toggles between the three active displays.

SELECT

Selects the distribution identifier you specify as the operand of the command for display.

If the specified report identifier does not exist, an error message displays.

Valid entries are S, SEL, and SELECT.

SORT

Sorts the selection list display by distribution identifier, bundle identifier, or output indicator.

The syntax of the SORT command is as follows:

SORT field

The following table identifies the field names that can be referenced on the SORT command and the predefined sort sequence used to order the data.

DISTID

Sorts by distribution identifier.

You can enter DISTID as DID or D.

Sort Sequence: Ascending

BUNDLE

Sorts by bundle identifier.

You can enter BUNDLE as BID or B.

Sort Sequence: Ascending

OUT

Sorts by output indicator.

Sort Sequence: Ascending

To sort the selection list by distribution identifier, enter the command:

```
sort distid
```

After the list is sorted, you can use the LOCATE command to traverse the list based on the first or only sort field. For example, if the list is sorted by distribution identifier, LOCATE PROD scrolls the list to the entry or closest entry whose distribution identifier is PROD.

Selection Codes

You can select one or more distribution identifiers for processing by entering the selection code listed in the following table. Enter the selection code to the left of, and on the same line as, the distribution identifier to be selected.

An individual distribution identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to S selection code. If a selection code or input command is entered, automatic selection does not occur.

S

Displays the distribution data for the distribution identifier.

Filtering

You can refine or restrict the amount of data displayed on the Distribution Xref for Report panel by specifying filtering data for the distribution identifier, bundle identifier, SYSOUT class, destination, external writer, output indicator, view restriction indicator, reprint indicator, and delete indicator. Enter filtering data on the line directly following the column headings on the Distribution Xref for Report panel.

By default, the filtering fields are set to asterisk (*). When the filtering fields are changed, the selection list redisplays with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria are displayed.

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

Bundle Selection List Panel

The Bundle Selection List panel is used to display all defined bundles.

■ To display the Bundle Selection List panel, enter B on the command line of the Primary Selection Menu panel, and press Enter.

```
 CA Deliver --------------- Bundle Selection List (1) --------------------------
  Command ===>                                                 Scroll ===> PAGE

 Sel Bundle ID                    Description
 ==> *                            *
     ACCOUNTSPAYABLEBUNDLE1        ACCOUNTS PAYABLE REPORTS
     CKECKIN                      CHECKI–G - IN HOUSE
     CHECKNS                      CHECKI–G - NORTH SITE– SANTA BARBARA
     CHECKSS                      CHECKI–G - SOUTH SITE – SAN DIEGO
     CHECKWH                      CHECKI–G - WAREHOUSE
     D902344                      DELIVERABL–S - NORTH SITE– SANTA BARBARA
     D902354                      DELIVERABL–S - SOUTH SITE – SAN DIEGO
     D902457                      DELIVERABL–S - IN HOUSE
     D903125                      CA–H - WEST SITE – SANTA MONICA
     D90415                       CA–H - IN HOUSE
     D904564                      DELIVERABL–S - WEST SITE – SANTA MONICA
     D90514                       CA–H - NORTH SITE – SANTA BARBARA
     D90543                       CA–H - SOUTH SITE – SAN DIEGO
     D90563                       CA–H - EAST SITE – ANAHEIM
     D90675                       CA–H - WAREHOUSE
     D907869                      DELIVERABL–S - EAST SITE - ANAHEIM
     FINBNDL01                    FINANCIAL DATA
     FINBNDL02                    FINANCIAL SUMMARIES
     GINAJONESBUNDLE              TESTING DESCRIPTION
```

■ The Bundle Selection List panel provides a secondary display that shows additional bundle information. The Bundle Selection List panel toggles between the displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
 CA Deliver --------------- Bundle Selection List (2) --------------------------
 Command ===>                                                  Scroll ===> PAGE

Sel Bundle ID                      -- Last Changed --  User
==> *                              *         *         *
    ACCOUNTSPAYABLEBUNDLE1         08/31/2013 09:00:04 GJONES
    CKECKIN                        10/15/2013 16:46:29 HFINN
    CHECKNS                        10/15/2013 16:16:18 HFINN
    CHECKSS                        05/05/2013 16:46:38 HFINN
    CHECKWH                        11/10/2013 12:33:13 HFINN
    D902344                        08/26/2013 13:55:52 N27USR
    D902354                        08/31/2013 13:55:52 N27USR
    D902457                        11/10/2013 09:44:57 N27USR
    D903125                        11/02/2013 14:50:05 GJONES
    D90415                         11/03/2013 12:25:54 HFINN
    D904564                        01/03/2013 11:56:49 N27USR
    D90514                         01/03/2013 12:32:38 HFINN
    D90543                         10/15/2013 09:46:09 N27USR
    D90563                         08/26/2013 16:16:05 HFINN
    D90675                         10/15/2013 13:56:47 N27USR
    D907869                        01/03/2013 14:13:48 N27USR
    FINBNDL01                      10/15/2013 10:18:15 GJONES
    FINBNDL02                      11/03/2013 10:05:23 HFINN
    GINAJONESBUNDLE                01/03/2013 16:06:18 TEST
```

Fields

The following are the fields on the Bundle Selection List panels and their descriptions:

Sel

> Defines the tabular commands in this column.

Bundle ID

> Displays the bundle identifier.

Description

> Displays the description defined to the bundle.

Last Changed

> Displays the date and time when the bundle identifier was last modified.

User

> Displays the user or job that last modified the bundle identifier.

Input Commands

The following input commands are available on the Bundle Selection List panels:

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

CONFIRM [ON | OFF]

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

LEFT

Toggles between the two active displays.

LOCATE

Scrolls to the entry whose name you specify as the operand of the command; if the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified.

For sorted lists, the LOCATE command traverses the list based on the first or only sort field.

Valid entries are L, LOC, and LOCATE.

REDISP

Redisplays (or refreshes) a selection list with current information.

Because definition and active data can be concurrently updated and added by the started task, batch jobs, and online users, data displayed on a selection list can become outdated. Recent changes and newly added data are obtained when the REDISP command is entered.

The syntax of the REDISP command is as follows:

REDISP [ON | OFF]

Where:

ON

Indicates that the display is to be refreshed automatically when the Enter key is pressed

OFF

Indicates that the REDISP command must be entered to refresh the display

The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.

If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.

For sorted lists, enter the REDISP command to refresh the display.

Valid entries are RED, REDISP, REF, and REFRESH.

RIGHT

Toggles between the two active displays.

SELECT

Selects the bundle identifier you specify as the operand of the command for display.

If the specified bundle identifier does not exist, an entry is created for it.

Valid entries are S, SEL, and SELECT.

SORT

Sorts the selection list display by bundle identifier, date/time entry was last changed, user who last changed entry, or description.

Up to two fields can be sorted.

The syntax of the SORT command is as follows:

SORT field1 field2

The following table identifies the field names that can be referenced on the SORT command and the predefined sort sequence used to order the data.

BUNDLE

Sorts by bundle identifier.

You can enter BUNDLE as BID or B.

Sort Sequence: Ascending

CHANGED

Sorts by date/time last changed.

You can enter CHANGED as CHA or C.

Sort Sequence: Descending

USER

Sorts by user/job that last changed entry.

You can enter USER as U.

Sort Sequence: Ascending

DESC

Sorts by description.

Sort Sequence: Ascending.

To sort the selection list by description, enter the command:

```
sort desc
```

To sort the selection list by user who last changed entry and date/time entry was last changed, enter the command:

```
sort user cha
```

After the list is sorted, you can use the LOCATE command to traverse the list based on the first or only sort field. For example, if the list is sorted by description, LOCATE FINANCE scrolls the list to the entry or closest entry whose description is FINANCE.

If the SORT command is entered by itself without a field, the standard dynamic list, which is sequenced by bundle identifier, displays.

Selection Codes

You can select one or more bundle identifiers for processing by entering one of the selection codes listed in the following table. Enter the selection code to the left of, and on the same line as, the bundle identifier to be selected.

An individual bundle identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

D

Deletes the bundle identifier and all references to it.

H

Displays the historical data for the bundle.

R

Renames the bundle identifier and changes all references to it to the new name.

Enter the new name in the New Bundle ID field below the bundle identifier on the Rename Bundle Definition subpanel.

S

Displays the bundle definition attributes for the bundle.

Filtering

You can refine or restrict the amount of data displayed on the Bundle Selection List panel by specifying filtering data for the bundle identifier, date entry was last changed, time entry was last changed, user/job that last changed entry, and bundle description. Enter filtering data on the line directly following the column headings on the Bundle Selection List panel.

By default, the filtering fields are set to asterisk (*) except for bundle identifiers which are filled with the identifier from the B primary command (if specified). When the filtering fields are changed, the selection list redisplays with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria are displayed.

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

Bundle Definition Attributes Panel

The Bundle Definition Attributes panel is used to add bundle definitions or to update existing bundle definitions, including determination of a batch or subtask bundle and overrides to the initialization parameter values.

To display the Bundle Definition Attributes panel, do *one* of the following:

- Enter the **B** command followed by a bundle identifier on the Primary Selection Menu panel, and press Enter.

- Select the bundle from the Report Bundle Specification panel, and press Enter.

The Bundle Definition Attributes panel has three subpanels:

- Bundle Distribution Specifications

- Bundle Special Instructions

- Report Specifications

```
CA Deliver ------------- Bundle Definition Attributes ------------------------
Command ===>

  ID     ---> ACCOUNTSPAYABLEBUNDLE1
  Desc   ===>

Attributes:
  Banner  ===> (          ,          ,          )
  BDist   ===>
  Late    ===>                  Bundle Confirm?   ===>
  Interval ===>                 Wait (Int, Late) ===> (   , N )

Job Statement Information:
    ===>
    ===>
    ===>
    ===>


 The following attributes may be selected by entering the 1-character selection code
on the command line:
       D - Distribution specifications.
       I - Special instructions.
       R - Report specifications.
```

Fields

The following are the fields on the Bundle Definition Attributes panel and their descriptions:

Desc

Specifies the 1- to 40-character description of the bundle that is displayed on the Bundle Selection List panel in the Desc field.

Banner

Specifies the name of the model banner page that is to print at the beginning and end of a report.

Values are as follows:

The name of the model bundle, distribution, and/or report banner page (in this order between the commas).

Blank

Accepts the default banner page

*—Suppresses the printing of the banner page

BDist

Specifies the bundle distribution identifier for the recipients of the reports to be used on the bundle banner page.

Address information is printed on the bundle banner page.

Leave this field blank to use the distribution identifier for the first distribution point in the bundle.

Late

Specifies the time in a 24-hour hh:mm format when the bundle is to be output for printing.

Reports are output even when all reports in the bundle have not been created.

Bundle Confirm

Specifies that a confirmation indicator is needed before the bundle is to be printed even though all reports in the bundle are not created.

Values are as follows:

Y

The bundle is not to be printed until the P (print bundle now) tabular command has been entered on the Active Bundle List panel

N

You do not need to enter P to print the bundle.

Blank

Accepts the BNDLCONF initialization parameter setting

Interval

Specifies the time in a 24-hour hh:mm format when subsequent continuation bundles are to be created.

Values are as follows:

hh:mm

The hours and minutes when continuation bundles are to be created

00:00

Continuation bundles are not to be created

Blank

Accepts the default interval

Wait (Int)

Specifies whether to hold bundles for production or to print bundles until the interval time.

Values are as follows:

Y

The bundle does not print until its bundling interval has expired

N

The bundle need not wait for its bundling interval to expire if all of the reports it needs are available for bundling

Blank

Uses the default wait indicator

Wait (Late)

Specifies whether to hold bundles for production or to print bundles until the late time.

Values are as follows:

Y

The bundle does not print until its late time has expired

N

The bundle need not wait for its late time to expire if all the reports it needs are available for bundling

Job Statement Information

Specifies the job statement composed of 1 to 4 card images to submit a batch job to create the bundle.

Blank

Allows the bundle to be dynamically created by the started task; it is easier to track and reference a bundle if you use job statements

Input Commands

The following are the input commands available on the Bundle Definition Attributes panel and their descriptions:

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

COPY

Copies definition specifications from another bundle identifier.

The syntax of the command is as follows:

COPY *id* [ALL]

Where:

Id

Specifies the bundle identifier from which the specifications are to be copied

ALL

Optionally replaces all of the current bundle definition specifications with those from the copied bundle

The bundle attributes, distribution specifications, report specification, and special instructions are replaced when ALL is specified.

If this parameter is omitted, only the bundle attributes are copied.

D

Displays the distribution specification for the bundle.

I

Displays the special instructions for the bundle.

R

Displays the report specifications for the bundle.

Selection Codes

The Bundle Special Instructions panel supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries presented in Tabular Commands in the chapter "Basics."

Bundle Distribution Specifications Subpanel

The Bundle Distribution Specifications subpanel is used to add distribution identifiers that are to receive a copy of a bundle, or delete distribution identifiers.

Note: To bundle a report, define the distribution identifier to the bundle and report definitions.

To display the Bundle Distribution Specifications subpanel, enter **D** on the command line on any Bundle Definition Attributes panel, and press Enter.

The lower portion of the Bundle Definition Attributes panel is refreshed with the Bundle Distribution Specifications subpanel.

```
CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00001

Command ===>                                              Scroll ===> PAGE



   ID      ---> APBUNDL1

 Distribution Specifications:
Sel  Distribution ID                 Address Line 1
    D29AP                            DEPT 29 ACCOUNTS PAYABLE
****************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Bundle Distribution Specifications subpanel and their descriptions:

Sel

Defines the tabular commands in this column.

Distribution ID

Optionally, you can specify a specific or generic distribution identifier of the recipient of the bundle.

If a specific (PROD123) identifier is entered, the Reports are distributed to that specific Distribution Id.

If a generic (PROD*) identifier is entered, the reports are distributed to all Distribution Ids that match the generic mask.

The generic identifier is used to simplify the association of Distribution Ids to a bundle.

Address Line 1

Displays the first address line defined to the distribution identifier.

Input Commands

The following input commands are available on the Bundle Distribution Specifications subpanel:

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

CONFIRM [ON | OFF]

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

COPY

Copies definition specifications from another bundle identifier

The syntax of the command is as follows:

COPY id

Where:

id

Specifies the bundle identifier from which the specifications are to be copied

Specify the A or B selection code to identify the destination of the copy.

COPYLIST

Displays a copylist subpanel from which you can choose from available lists of distribution IDs to copy without reentering existing information.

FIND

Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel.

The syntax of the FIND command is as follows:

FIND string column [FIRST | NEXT | LAST | PREV] NOT

You can enter the FIND command as F.

The string specification identifies the search data. The string is matched against data starting in the first character of the search column.

The FIND command does not locate data that is embedded within the column.

If the string contains special characters, enclose the string within quotation marks.

The column name specification identifies the field that is to be searched. If omitted, the distribution identifier (DISTID) column is searched. The following columns can be searched:

DISTID

Distribution identifier.

You can enter DISTID as DID or D. If a column name is not specified, DISTID is assumed.

ADDRESS

First address line of the distribution identifier.

Column name can be specified as LINE.

The location specification identifies the origin and direction of the search. If omitted, the search begins with the row at the top of the current display. The location specifications are as follows:

FIRST

Starts the search at the beginning of the table and proceeds forward to the end of the table.

NEXT

Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table.

LAST

Starts the search at the end of the table and proceeds backward to the beginning of the table.

PREV

Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table.

The NOT specification indicates that the column is to be searched for data that is not equal to the string specified on the FIND command.

Note: For more information about the FIND command, see Input Commands in the chapter "Basics."

I

Displays the special instructions for the bundle.

R

Displays the report specification for the bundle.

RFIND

Locates the next occurrence of a previously issued FIND command.

If another occurrence is not found, a line not located message displays.

Typically, PF5 and PF17 are defined as the RFIND key.

SORT

Sorts the bundle distribution specifications by distribution identifier in ascending sequence.

> Note: The list is saved in the new sequence after sorting. If this sequence is not what you want, enter the CANCEL command to ignore the changes.

Selection Codes

You can select one or more distribution identifiers for processing by entering the selection code listed in the following table. Enter the selection code to the left of, and on the same line as, the distribution identifier to be selected.

An individual distribution identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

The Bundle Distribution Specifications panel also supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries. For more information, see the section Tabular Commands in the chapter "Basics."

S

Displays the distribution data for the distribution identifier.

Note: Generic distribution identifiers cannot be selected.

Bundle Special Instructions Subpanel

The Bundle Special Instructions subpanel is used to add or update special instructions to be printed on the bundle banner page.

To display the Bundle Special Instructions subpanel, enter I on the command line on any Bundle Definition Attributes panel, and press Enter.

The lower portion of the Bundle Definition Attributes panel is refreshed with the Bundle Special Instructions subpanel.

```
CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00004

Command ===>                                              Scroll ===> PAGE

   ID     ---> APBUNDL1

 Special Instructions:
Sel Instruction
 '   '++++++++++++++++++++++++++++++++++++++++'++'
 '   '++  CRITICAL REPOR—S - EXPEDITE HANDLING '++'
 '   '++          ACCOUNTS PAYABLE DATA        '++'
 '   '++++++++++++++++++++++++++++++++++++++++'++'
***************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Bundle Special Instructions subpanel and their descriptions:

Sel

Defines the tabular commands in this column.

Instruction

Specifies the instructions to be printed on the bundle banner page.

Input Commands

The following are the input commands available on the Bundle Distribution Specifications subpanel and their descriptions:

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

COPY

Copies definition specifications from another bundle identifier.

The syntax of the command is as follows:

COPY *id*

Where:

Id

Specifies the bundle identifier from which the specifications are to be copied

Specify the A or B selection code to identify the destination of the copy.

D

Displays the distribution specification for the bundle.

R

Displays the report specification for the bundle.

Selection Codes

The Bundle Special Instructions panel supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries presented in Tabular Commands in the chapter "Basics."

Bundle Report Specifications Subpanel

The Bundle Report Specifications subpanel is used to add or delete reports to be included in a bundle.

To display the Bundle Report Specifications subpanel, enter R on the command line of the Bundle Definition Attributes panel, and press Enter.

The lower portion of the Bundle Definition Attributes panel is refreshed with the Bundle Report Specifications subpanel.

```
CA Deliver ------------- Bundle Definition Attributes ------ Row 00001 of 00003

Command ===>                                              Scroll ===> PAGE


   ID     ---> APBUNDL1

 Report Specifications:
Sel  Report ID                      Description
     TRJOB02-R01                    EDITED TRANSACTIONS AP
     TRJOB02-R02                    EDITED TRANSACTIONS AP
     TRJOB02-R03                    VENDORS CHECK REGISTER
***************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Bundle Report Specifications subpanel and their descriptions:

Sel

Defines the tabular commands in this column.

Report ID

Specifies the report identifier of the report to be included in the bundle.

Description

Displays the report description.

Input Commands

The following input commands are available on the Bundle Report Specifications subpanel:

CANCEL

Terminates the current display and displays the previous panel; changed data is not saved.

Valid entries are CAN and CANCEL.

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

CONFIRM [ON | OFF]

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

COPY

Copies definition specifications from another bundle identifier

The syntax of the command is as follows:

COPY id

Where:

id

Specifies the bundle identifier from which the specifications are to be copied

Specify the A or B selection code to identify the destination of the copy.

COPYLIST

Displays a copylist subpanel from which you can choose from available lists of report IDs to copy without reentering existing information.

D

Displays the distribution specification for the bundle.

FIND

Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel.

The syntax of the FIND command is as follows:

FIND string column [FIRST | NEXT | LAST | PREV] NOT

You can enter the FIND command as F.

The string specification identifies the search data. The string is matched against data starting in the first character of the search column.

The FIND command does not locate data that is embedded within the column.

If the string contains special characters, enclose the string within quotation marks.

The column name specification identifies the field that is to be searched. If omitted, the report identifier (REPORT) field is searched. The following columns can be searched:

DISTID

Distribution identifier.

You can enter DISTID as DID or D. If a column name is not specified, DISTID is assumed.

ADDRESS

First address line of the distribution identifier.

Column name can be specified as LINE.

The location specification identifies the origin and direction of the search. If omitted, the search begins with the row at the top of the current display. The location specifications are as follows:

FIRST

Starts the search at the beginning of the table and proceeds forward to the end of the table.

NEXT

Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table.

LAST

Starts the search at the end of the table and proceeds backward to the beginning of the table.

PREV

Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table.

The NOT specification indicates that the column is to be searched for data that is not equal to the string specified on the FIND command.

Note: For more information about the FIND command, see Input Commands in the chapter "Basics." Input Commands in Chapter 3, "Basics".

I

Displays the special instructions for the bundle.

RFIND

Locates the next occurrence of a previously issued FIND command.

If another occurrence is not found, a not-found message is displayed. Typically, PF5 and PF17 are defined as the RFIND key.

SORT

Sorts the bundle report specifications by report identifier in ascending sequence.

Note: The list of report specifications is saved in the new sequence after sorting. If this sequence is not what you want, use the CANCEL command to ignore the changes.

Selection Codes

You can select one or more report identifiers for processing by entering the selection code listed in the following table. Enter the selection code to the left of, and on the same line as, the report identifier to be selected.

An individual report identifier can be selected automatically by placing the cursor on the targeted entry and pressing the Enter key. The selection is equivalent to the S selection code. If a selection code or input command is entered, automatic selection does not occur.

The Bundle Report Specifications panel also supports the full range of edit selection codes to copy, delete, insert, move, and repeat entries. For more information, see the section Tabular Commands in the chapter "Basics." Tabular Commands in Chapter 3, "Basics"

S

Displays the report definition for the report identifier.

Bundle Historical Data Panel

The Bundle Historical Data panel is used to display the following historical data for a selected bundle:

■ The generation (the 24-hour period starting at the time specified in the TIME initialization parameter) when the bundle was executed and the number of times in the generation that the bundle was created

■ The name and job identifier for the job that created the bundle

■ The number of records and pages created and queued for printing

■ The date and time when the bundle was queued for printing

Note: For more information about historical data, see the chapter "Obtaining Historical Data."

To display the Bundle Historical Data panel, enter **H** in the Sel column on the Bundle Selection List panel, and press Enter.

```
CA Deliver - Bundle Historical Data ---------------------- Row 00001 of 00002

Command ===>                                              Scroll ===> PAGE

   ID     ---> APBUNDL1

Sel Gen Jobname  Jobid           Lines    Pages -- Print Queued --
    +0 APBUNDL1 JOB07200          523       15 01/13/2013 15:34:30
    -1 APBUNDL1 JOB02339          562       16 01/12/2013 09:46:48
***************************** Bottom of Data *****************************
```

Fields

The following are the fields on the Bundle Historical Data panel and their descriptions:

Sel

Defines the tabular commands in this column.

Gen

Shows generation (24-hour period starting at the TIME initialization parameter) in which the bundle was executed and the number that represents the previous generations for which there was valid data relative to the current generation.

+0 is the current generation.

Jobname

Specifies the job name associated with the execution of the bundle.

Jobid

Specifies the JES job number associated with the execution of the bundle.

Lines

Specifies the number of print lines queued for the bundle.

Pages

Specifies the number of pages queued for the bundle.

Print Queued

Specifies the date and time when the bundle was queued to print.

Selection Codes

You can select one or more report identifiers for processing by entering the selection code listed in the following table. Enter the selection code to the left of, and on the same line as, the bundle identifier to be selected.

S

Displays the detailed historical data for the bundle.

Bundle Detail Historical Data Panel

The Bundle Detail Historical Data panel is used to display the following detailed historical data for a selected bundle:

■ The history detail number

■ The distribution identifier or recipient of the bundle and bundle ID

■ The assigned tracking number

■ The group distribution identifier

■ The station to which the bundle was posted

■ The date and time when the bundle was queued for printing

■ The number of lines and pages printed at the station

To display the Bundle Detail Historical Data panel, enter **S** in the Sel column of the Bundle Historical Data Panel, and press Enter.

```
CA Deliver ----------- Bundle Detail Historical Data (1) --- Row 00001 of 00010
Command ===>                                             Scroll ===> PAGE

 Bundle ID    ---> TRBUNDL1
 Job          ---> TRBUNDL1     Jobid    ---> JOB8340
 Bundle Hdn   ---> 0000002501   Bundle Seq -> 001          Gen      ---> +0
 Bundle Lines -->       3128    Bundle Pages -->        600

 Sel Hdn        Distribution ID              G Station  Date       Time
     0000002513 D27MGR                         PRINTER1 10/15/2013 07:42
                                               B&D      10/15/2013 09:46
                                               COURIER  10/15/2013 10:14
                                               DROPOFF  10/15/2013 09:47
                                               SHREDDER 10/16/2013 10:48
     0000002515 D27DIR                         PRINTER1 10/15/2013 07:42
                                               B&D      10/15/2013 08:36
                                               COURIER  10/15/2013 09:46
                                               DROPOFF  10/15/2013 10:47
                                               SHREDDER 10/16/2013 09:48
 ****************************** Bottom of Data ******************************
```

The Bundle Detail Historical Data panel provides a secondary display that shows additional bundle information. The Bundle Detail Historical Data panel toggles between the displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
CA Deliver ----------- Bundle Detail Historical Data (2) --- Row 00001 of 00010
Command ===>                                            Scroll ===> PAGE

 Bundle ID   ---> TRBUNDL1
 Job         ---> TRBUNDL1      Jobid   ---> JOB8340
 Bundle Hdn  ---> 0000002501   Bundle Seq -> 001          Gen     ---> +0
 Bundle Lines -->       3128   Bundle Pages -->         600


                                                    User Data
Sel Hdn         Report ID                    Station   (Lines Pages)
    0000002513 RMO27A51-X1A                  PRINTER1   1564   300
                                             B&D
                                             COURIER    JIM
                                             DROPOFF    EVELYN
                                             SHREDDER   BILL
    0000002515 RMOD27A51-X1A                 PRINTER1   1564   300
                                             B&D        TOM
                                             COURIER    MARY
                                             DROPOFF    JANE
                                             SHREDDER   RALPH
***************************** Bottom of Data *******************************
```

Fields

The following are the fields on the Bundle Detail Historical Data panels and their descriptions:

Sel

Defines the tabular commands in this column.

Hdn

Specifies the history detail number generated from the record and block associated with retrieval of data for the bundle from the history subfile.

The history detail number distinguishes individual copies of a report within bundled or non-bundled reports.

Distribution ID

Indicates where to distribute the report and bundle.

G

Indicates whether a distribution identifier groups the report .

Station

Specifies the tracking station names where the reports or bundles are posted.

The first entry listed is the printer identifier from JES.

Note: The first station is always represented by asterisks.

Date

Specifies the date when the report was posted to the station.

Time

Specifies the time when the report was posted to the station.

Report ID

Specifies the report identifier of the report in the bundle.

User Data/(Lines Pages)

Specifies the name of the user requesting the data; if the station shown is a printer, prints the number of lines and pages.

Input Commands

The following are the input commands available on the Bundle Detail Historical Data panels and their descriptions:

LEFT

Toggles between the two active displays.

RIGHT

Toggles between the two active displays.

Tn

Updates manually the date, time, and user field for a station of a bundle.

Enter the Tn command as follows:

Tn hdn date time data

Where:

N

Identifies the station by number from 1– 5. If omitted, the first station is assumed.

Hdn

Identifies the history detail number

This can be the bundle history detail number or a report history detail number. Specifying the bundle history detail number updates the station for each report contained within the bundle. A report history detail number updates the specific report ID only.

If the history detail number is blank or an asterisk (*), the bundle history detail number is used.

Leading zeros are not required.

Date

Indicates the date to be set for the specified station in the default date format

Specify an asterisk (*) to use the current date.

Specify a comma (,) to retain the current station date.

Time

Indicates the time to be set for the specified station

Specify an asterisk (*) to use the current time.

Specify a comma (,) to retain the current station time.

Data

Identifies information associates with the posting of the station

If omitted, the logon user ID is used.

If data contains special characters or blanks, enclose this parameter in quotes.

Selection Codes

You can post one or more stations by entering one of the selection codes listed as follows. Enter the selection code to the left of, and on the same line as, the station to be posted. The first station for each Hdn is always the printer station and cannot be posted or deleted.

T

Posts the station with the date, time, and user data.

The date and time can be entered to identify a unique date and time or left blank to use the current date and time. You can also enter data in the user field.

If no data is entered in the user field, the logon user ID is inserted.

TD

Deletes posted station information.

For more information, see the chapter "Obtaining Historical Data."

Active Report List Panel

The Active Report List panel is used to indicate the status of a report at all times.

■   To display the Active Report List panel, enter **A**, a space, and **R** on the command line on the Primary Selection Menu panel, and press Enter.

```
 CA Deliver - Active Report List (1) --------------------------------------------
 Command ===>                                                  Scroll ===> PAGE

                                 Job Def  Exec     Exec
 Sel Report ID                   Name     Jobname  Jobid   Status   Excpt
 ==> *                           *        *        *       *        *
     EDITREPT01                  TRJOB01
     TRJOB01-R01                 TRJOB01
     TRJOB01-R02                 TRJOB01
     TRJOB02-R01                 TRJOB02
     TRJOB02-R02                 TRJOB02
     TRJOB02-R03                 TRJOB02
     TRJOB02-R04                 TRJOB02
     TRJOB02-R05                 TRJOB02
     TRJOB02-R06                 TRJOB02
     TRJOB02-R07                 TRJOB02
     TRJOB02-R08                 TRJOB02
     TRJOB02-R09                 TRJOB02
     TRJOB02-R10                 TRJOB02
     U50500-R01                  U50500
 ****************************** Bottom of Data ******************************
```

■ The Active Report List panel provides two additional displays that show more report information. The Active Report List panel toggles between the displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
 CA Deliver - Active Report List (2) --------------------------------------------
 Command ===>                                                   Scroll ===> PAGE

                               Job   Create        Late Dist View  View
Sel Report ID                  Seq   Sysid         Time Day  Gen   Seq
==> *                                *             *    *
    EDITREPT01                 00000
    TRJOB01-R01                00000
    TRJOB01-R02                00000
    TRJOB02-R01                00000
    TRJOB02-R02                00000
    TRJOB02-R03                00000
    TRJOB02-R04                00000
    TRJOB02-R05                00000
    TRJOB02-R06                00000
    TRJOB02-R07                00000
    TRJOB02-R08                00000
    TRJOB02-R09                00000
    TRJOB02-R10                00000
    U50500-R01                 00000
****************************** Bottom of Data ********************************
```

```
 CA Deliver - Active Report List (3) --------------------------------------------
 Command ===>                                                   Scroll ===> PAGE

                                                           Bundle
Sel Report ID                  Bundle ID                   Xwtr
==> *                          *
    EDITREPT01
    TRJOB01-R01                APBUNDL1
    TRJOB01-R02                APBUNDL1
    TRJOB02-R01                APBUNDL2
    TRJOB02-R02                APBUNDL2
    TRJOB02-R03                APBUNDL2
    TRJOB02-R04                APBUNDL2
    TRJOB02-R05                APBUNDL2
    TRJOB02-R06                APBUNDL2
    TRJOB02-R07                APBUNDL2
    TRJOB02-R08                APBUNDL2
    TRJOB02-R09                APBUNDL2
    TRJOB02-R10                APBUNDL2
    U50500-R01
****************************** Bottom of Data ********************************
```

Fields

The following are the fields on the Active Report List panels and their descriptions:

Sel

Defines the tabular commands in this column.

Report ID

Specifies the report identifier.

Job Def Name

Specifies the name of the job that creates the report.

Exec Jobname

Specifies the name of the job that creates the report.

Exec Jobid

Specifies the JES identifier number of the job creating the report.

This field is blank until the report is selected for creation.

Status

Indicates the status of the report.

Values are as follows:

Blank—The report is active and has not been opened

ACT PEND—The report (pending its use) is activated automatically

BNDL SEL—The report has been selected for bundling

BNDLWAIT—The report has been created and is awaiting bundling

DELETE—The bundle holding copy is to be deleted

DELETED—The bundle holding copy has been deleted

JESQWAIT—The bundle holding copy is waiting to be queued in JES

OPEN—The report is open and at least one record has been written

PURGED—The job that created the report has been purged

QUEUED—The report has been closed and is queued for printing

Excpt

Indicates whether an exception has occurred for the report.

Values are as follows:

Blank—No exceptions exist for the report

ABEND—The job that created the report ended abnormally

LATE—The report is late

NPROD—The report was not produced

Job Seq

Specifies the internal sequence number assigned to the job creating the report.

Create Sysid

Specifies the identifier for the system creating the job.

Late Time

Specifies the time when the report is marked late if it has not been queued for printing in an hh:mm format (for example, 23:15).

Dist Days

Specifies the day of the week that the report was processed.

The distribution day by default is based on the day that the job was submitted and the setting of the BEGINDAY initialization parameter. Jobs submitted before the BEGINDAY setting are considered part of the previous day's cycle.

View Gen

Specifies the CA View generation number.

View Seq

Specifies the CA View SYSOUT sequence number.

Bundle ID

Specifies the bundle identifier.

Bndl Xwtr

Specifies the external writer number of the bundle holding copy.

Input Commands

The following input commands are available on the Active Report List panels:

LEFT

Toggles between the three active displays.

LOCATE

Scrolls to the entry whose name you specify as the operand of the command; if the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified.

For sorted lists, the LOCATE command traverses the list based on the first or only sort field.

Valid entries are L, LOC, and LOCATE.

REDISP

Redisplays (or refreshes) a selection list with current information

Because definition and active data can be concurrently updated and added by the started task, batch jobs, and online users, data displayed on a selection list can become outdated. Recent changes and newly added data are obtained when the REDISP command is entered.

The syntax of the REDISP command is as follows:

REDISP [ON | OFF]

Where:

ON

Indicates that the display is to be refreshed automatically when the Enter key is pressed

OFF

Indicates that the REDISP command must be entered to refresh the display

The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.

If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.

For sorted lists, the REDISP command must be entered to refresh the display.

Valid entries are RED, REDISP, REF, and REFRESH.

RIGHT

Toggles between the three active displays.

SELECT

Selects the report identifier you specify as the operand of the command for display.

If the specified report identifier does not exist, an error message displays.

Valid entries are S, SEL, and SELECT.

SORT

Sorts the Active Report List by report identifier, job name defined to database, execution job name, bundle identifier, report status, and exceptional condition.

Up to two fields can be sorted.

The syntax of the SORT command is as follows:

SORT field1 field2

The following table identifies the field names that can be referenced on the SORT command and the predefined sort sequence used to order the data.

REPORT

Sorts by report identifier.

You can enter REPORT as RID or R.

Sort Sequence: Ascending

JOBNAME

Sorts by job definition name.

You can enter JOBNAME as JOB or J.

Sort Sequence: Ascending

EXECJOB

Sorts by execution job name.

You can enter EXECJOB as EXEC.

Sort Sequence: Ascending

BUNDLE

Sorts by bundle identifier.

You can enter BUNDLE as BID or B.

Sort Sequence: Ascending

STATUS

Sorts by report status.

You can enter STATUS as STAT or S.

Sort Sequence: Ascending

EXCPT

Sorts by exceptional conditional.

You can enter EXCPT as EXC or X.

Sort Sequence: Ascending

To sort the selection list by exceptional condition, enter the command:

```
sort excpt
```

To sort the selection list by execution job name and status, enter the command:

```
sort exec status
```

After the list is sorted, you can use the LOCATE command to traverse the list based on the first or only sort field. For example, if the list is sorted by exceptional condition, LOCATE LATE scrolls the list to the entry or closest entry whose exceptional condition is LATE.

If the SORT command is entered by itself without a field, the standard dynamic list that is sequenced by report identifier is displayed.

Selection Codes

You can select one or more active entries for processing by entering one of the selection codes listed as follows. Enter the selection code to the left of, and on the same line as, the distribution identifier to be selected.

D

Deletes a report from a bundle before printing the bundle.

F

Frees all entries for the report identifier from system ownership.

H

Displays the historical data for the report identifier.

J

Displays the job data for the job that created the report.

S

Displays the report definition attributes for the report.

U

Inactivates all entries for the report identifier.

UF

Forcibly inactivates all entries for the report identifier.

Important! Use forced inactivation only as a "last resort" to clean up entries in the database; bundle holding copies can be left on the spool volumes.

Filtering

You can refine or restrict the amount of data displayed on the Active Report List panel by specifying filtering data for report identifier, job definition name, execution job name, execution job number, bundle identifier, report status, exceptional condition, creating system ID, late time, and external writer number. Enter filtering data on the line directly following the column headings on the Active Report List panel.

By default, the filtering fields are set to asterisk (*) except for the report identifier, which is filled with the identifier from the A primary command (if specified). When the filtering fields are changed, the active report list redisplays with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria are displayed.

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

Active Bundle List Panel

The Active Bundle List panel is used to display the status of a bundle at all times. Two secondary panels display additional information about the status of a bundle. Due to the large amount of information that is available for active bundles, all data cannot be displayed on the Active Bundle List (1) panel. Therefore, the rest of the data is displayed on the secondary panels.

■ To display the Active Bundle List panel, enter **A**, a blank, and **B** (A B) on the command line from the Primary Selection panel, and press Enter.

```
 CA Deliver - Active Bundle List (1) -------------------------------------------
 Command ===>                                                     Scroll ===> PAGE

                                          Remaining
Sel Bundle ID                             Intvl Time  Wait  Status   Excpt
==> *                                         *        *      *        *
    APBUNDL1
    APBUNDL2
***************************** Bottom of Data ******************************




```

■ The Active Bundle List panel provides two additional displays that show more bundle information. The Active Bundle List panel toggles between the displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
 CA Deliver - Active Bundle List (2) -------------------------------------------
 Command ===>                                                     Scroll ===> PAGE


                                          Wait          Act Pnd Rdy Bdl
Sel Bundle ID                      Late  Late  Intvl  Cnt Cnt Cnt Cnt
==> *                               *     *      *
    APBUNDL1                                           010 000 000 000
    APBUNDL2                                           001 000 000 000
***************************** Bottom of Data ******************************




```

```
 CA Deliver - Active Bundle List (3) -------------------------------------------
 Command ===>                                            Scroll ===> PAGE


                                      Locked
Sel Bundle ID                         Sysid      Submit
==> *                                 *          *
    APBUNDL1
    APBUNDL2

****************************** Bottom of Data ******************************
```

Fields

The following are the fields on the Active Bundle List panels and their descriptions:

Sel

Defines the tabular commands in this column.

Bundle ID

Specifies the bundle identifier.

RemainingIntvl Time

Specifies the time remaining in the current interval.

Wait

Indicates whether the bundle is to be produced when reports for the bundle are ready or at the interval time.

Values are as follows:

YES

The bundle is to be produced at the interval time

Blank

The bundle is to be produced as soon as the reports are ready

Status

Indicates the status of the bundle.

Values are as follows:

Blank—The bundle is active and has not been opened

OPEN—The bundle is open and is being created

PRT REQ—The bundle has been manually selected for printing with the tabular command P (print bundle now)

QUEUED—The bundle is created and is queued for printing

Excpt

Indicates whether an exception has occurred for the bundle and type of abend.

Values are as follows:

Blank—Exceptions do not exist for the bundle

ABEND—The job that created the bundle ended abnormally

INCMP—The bundle printed before all the active reports it was to contain were created

NPROD—The bundle consists entirely of reports that were not produced

READY—The bundle is ready for printing

This exception displays only when bundle confirmation is on.

Wait Late

Indicates whether the bundle is to be produced when reports in the bundle are ready or at the bundle late time.

Values are as follows:

YES—The bundle is to be produced at the late time

Blank—The bundle is to be produced as soon as the reports are ready

Late

Specifies the time in a 24-hour hh:mm format when the bundle is to be marked late if it is not queued for printing, for example, 12:33.

Intvl

Specifies the number of hours and/or minutes when subsequent continuation bundles are to be created.

Act Cnt

Specifies the number of active reports in the bundle.

Pnd Cnt

Specifies the number of reports where activation is pending.

Rdy Cnt

Specifies the number of reports ready to be bundled.

Bdl Cnt

Specifies the number of reports that have been bundled.

Locked Sysid

Specifies the system identifier of the operating system on which the report is being processed and where the bundle is locked.

Note: This field contains a value only during the initial selection and creation of a report.

Submit

Indicates whether the batch job, creating the bundle, has been submitted.

YES—The batch job has been submitted

Blank—The batch job has not been submitted

Input Commands

The following input commands are available on the Active Bundle List panels:

LEFT

> Toggles between the three active displays.

LOCATE

> Scrolls to the entry whose name you specify as the operand of the command.
>
> If the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified.
>
> For sorted lists, the LOCATE command traverses the list based on the first or only sort field.
>
> Valid entries are L, LOC, and LOCATE.

REDISP

> Redisplays (or refreshes) a selection list with current information
>
> Because definition and active data can be concurrently updated and added by the started task, batch jobs, and online users, data displayed on a selection list can become outdated. Recent changes and newly added data are obtained when the REDISP command is entered.
>
> The syntax of the REDISP command is as follows:
>
> REDISP [ON | OFF]
>
> Where:
>
> **ON**
>
> > Refreshes automatically the display when you press Enter
>
> **OFF**
>
> > Refreshes the display only when the REDISP command is entered
> >
> > The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.
> >
> > If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.
> >
> > For sorted lists, enter the REDISP command to refresh the display.
> >
> > Valid entries are RED, REDISP, REF, and REFRESH.

RIGHT

> Toggles between the three active displays.

SELECT

Selects the bundle identifier you specify as the operand of the command for display.

If the specified bundle identifier does not exist, an entry is created for it.

Valid entries are S, SEL, and SELECT.

SORT

Sorts the Active Bundle List by bundle identifier, bundle status, and exceptional condition

Up to two fields can be sorted.

The syntax of the SORT command is as follows:

SORT field1 field2

The following table identifies the field names that can be referenced on the SORT command and the predefined sort sequence used to order the data.

BUNDLE

Sorts by report identifier.

You can enter BUNDLE as BID or B.

Sort Sequence: Ascending

STATUS

Sorts by bundle status.

You can enter STATUS as STAT or S.

Sort Sequence: Ascending

EXCPT

Sorts by exceptional conditional.

You can enter EXCPT as EXC or X.

Sort Sequence: Ascending

To sort the selection list by exceptional condition, enter the command:

```
sort excpt
```

To sort the selection list by status and bundle identifier, enter the command:

```
sort status bundle
```

After the list is sorted, you can use the LOCATE command to traverse the list based on the first or only sort field. For example, if the list is sorted by exceptional condition, LOCATE LATE scrolls the list to the entry or closest entry whose exceptional condition is LATE.

If the SORT command is entered by itself without a field, the standard dynamic list, which is sequenced by bundle identifier, is displayed.

Selection Codes

You can select one or more active entries for processing by entering one of the selection codes listed as follows. Enter the selection code to the left of, and on the same line as, the distribution identifier to be selected.

C

Displays the active reports for the bundle.

F

Frees the bundle identifier from system ownership.

H

Displays the historical data for the bundle identifier.

P

Requests that the bundle be printed at the next opportunity, even though all the reports for the bundle have not yet been created.

Use the P command to confirm bundles if Bundle Confirm = Y on the Bundle Definition Attributes panel or if the Init Parm BNDLCONF = Yes.

S

Displays the bundle definition attributes for the bundle.

Filtering

You can refine or restrict the amount of data displayed on the Active Bundle List panel by specifying filtering data for the bundle identifier, locked system identifier, submission indicator, remaining interval time, wait indicator, status, exceptional condition, late time, and interval time. Enter filtering data on the line directly following the column headings on the Active Bundle List panel.

By default, the filtering fields are set to asterisk (*) except for the bundle identifier that is filled with the identifier from the A primary command (if specified). When the filtering fields are changed, the active bundle list redisplays with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria are displayed.

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

Display Selection Panel

The Display Selection panel is used to display a list of banner pages, printer setup members, or online panels that are located in the database.

To display the Display Selection panel, enter **DI** or **DISPLAY** on the command line, and press Enter.

```
CA Deliver ---------------- Display Selection Panel --------------------------

Command ===>

   B - Display selection list of banner pages.
   P - Display selection list of printer setup members.
   O - Display selection list of online panels.


  Operand for B,P,O:
    Omit operand for complete selection list.
    Specify identifier or generic identifier for limited selection list.

   Enter END command to exit
```

Input Commands

The commands that you can enter on the Display Selection panel are shown as follows:

BANNERS

Displays a list of banner page members that you can browse or delete in the database.

Valid entries are B, BAN, and BANNER.

PRSETS

Displays a list of printer setup members that you can browse or delete in the database.

Valid entries are P, PR, and PRSET.

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 you have made on the panel, terminates the operation you are currently performing, then returns you to the previous panel.

Banner Page Selection List Panel

The Banner Page Selection List panel is used to display or delete pre-loaded banner page members.

To display the Banner Page Selection List panel, enter **B** on the command line, and press Enter.

```
CA Deliver -------------- Banner Page Selection List ------- Row 00001 of 00036

Command ===>                                              Scroll ===> PAGE


Sel  Name      ------ Last Modified -------
     $$$SPACE 07/10/2013 10:22:41 $BLOADP
     ATTR     07/17/2013 19:58:36 RMOBLOAD
     BANBJ    07/17/2013 19:58:36 RMOBLOAD
     BDFLTB   01/07/2013 13:20:16 RMOBLOAD
     BDFLTD   01/07/2013 13:20:16 RMOBLOAD
     BDFLTR   01/07/2013 13:20:16 RMOBLOAD
     BNDLMAN1 08/04/2013 10:45:45 RMOBLOAD
     CHG205   07/17/2013 19:58:36 RMOBLOAD
     CNTLREC1 08/04/2013 10:45:45 RMOBLOAD
     CNTLREC2 08/04/2013 10:45:45 RMOBLOAD
     CRAIG1   07/10/2013 10:22:41 $BLOADP
     DDNAME   07/17/2013 19:58:36 RMOBLOAD
     DEFAULT  08/04/2013 10:45:45 RMOBLOAD
     DEFAULT1 08/04/2013 10:45:45 RMOBLOAD
     DEI804   07/17/2013 19:58:36 RMOBLOAD
     DISTBNR  07/17/2013 19:58:36 RMOBLOAD
     DJDEBAN  07/17/2013 19:58:36 RMOBLOAD
     DJDEPRCT 07/17/2013 19:58:36 RMOBLOAD
     ERRORS   01/07/2013 13:20:16 RMOBLOAD
     I6724256 01/07/2013 13:20:16 RMOBLOAD
```

Fields

The following are the fields on the Banner Page Selection List panel and their descriptions:

Sel

Defines the tabular commands in this column.

Name

Specifies the banner page member name.

Last Modified

Displays the date and time when the banner page member was loaded into the database, and the user or job that perform the load.

Input Commands

The following are the input commands available on the Banner Page Selection List panel and their descriptions:

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

CONFIRM [ON | OFF]

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

LOCATE

Scrolls to the entry whose name you specify as the operand of the command.

If the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified.

Valid entries are L, LOC, and LOCATE.

SELECT

Selects the banner page member you specify as the operand of the command for display

If the specified banner page member does not exist, an error message displays.

Valid entries are S, SEL, and SELECT.

Selection Codes

You can select one or more banner page members for processing by entering one of the selection codes listed as follows. Enter the selection code to the left of, and on the same line as, the banner page name to be selected.

D

Deletes the banner page member from the database.

S

Displays the banner page member.

Printer Setup Selection List Panel

The Printer Setup Selection List panel is used to display or delete pre-loaded printer setup members.

To display the Printer Setup Selection List panel, enter **P** on the command line, and press Enter.

```
CA Deliver ------------- Printer Setup Selection List ------ Row 00001 of 00005

Command ===>                                          Scroll ===> PAGE

Sel  Name      ------ Last Modified -------
     DJDE      06/15/2013 19:42:50 RMOPLOAD
     HEX5A     08/03/2013 08:14:48 RMOPLOAD
     PME       03/18/2013 09:22:16 RMOPLOAD
     PRNTSETP  02/22/2013 18:25:32 RMOPLOAD
     XEROX     05/08/2013 12:18:55 RMOPLOAD
****************************** Bottom of Data **************************
```

Fields

The following are the fields on the Printer Setup Selection List panel and their descriptions:

Sel

Defines the tabular commands in this column.

Name

Specifies the printer setup member name.

Last Modified

Displays the date and time when the printer setup member was loaded into the database, and the user or job that performed the load.

Input Commands

The following are the input commands available on the Printer Setup Selection List panel and their descriptions:

LOCATE

Scrolls to the entry whose name you specify as the operand of the command.

If the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified.

Valid entries are L, LOC, and LOCATE.

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

```
CONFIRM  [ ON | OFF ]
```

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

SELECT

Selects the printer setup member you specify as the operand of the command for display.

If the specified printer setup member does not exist, an error message displays.

Valid entries are S, SEL, and SELECT.

Selection Codes

You can select one or more printer setup members for processing by entering one of the selection codes listed as follows. Enter the selection code to the left of, and on the same line as, the printer setup member name to be selected.

D

Deletes the printer setup member from the database.

S

Displays the printer setup member.

Online Panel Selection List Panel

The Online Panel Selection List panel is used to display or delete online panels that are pre-loaded into the database.

To display the Online Panel Selection List, enter **O** on the command line, and press Enter.

```
CA Deliver -------------- Online Panel Selection List ------ Row 00001 of 00509

Command ===>                                            Scroll ===> PAGE

Sel  Name     ------ Last Modified -------
     RMOJCLB  10/16/2013 15:04:01 RMOOLOAD
     RMOPTB   10/16/2013 15:04:01 RMOOLOAD
     RMOPTBA1 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBA2 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBB1 10/16/2013 15:04:01 RMOOLOAD
     RMOPTBC1 10/16/2013 15:04:01 RMOOLOAD
     RMOPTBDA 10/16/2013 15:04:01 RMOOLOAD
     RMOPTBDB 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBDC 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBDD 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBDE 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBDF 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBDG 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBDH 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBDI 10/16/2013 15:04:01 RMOOLOAD
     RMOPTBDJ 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBDK 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBDL 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBDM 10/14/2013 21:39:12 RMOOLOAD
     RMOPTBDN 10/14/2013 21:39:12 RMOOLOAD
```

Fields

The following are the fields on the Online Panel Selection List panel and their descriptions:

Sel

Defines the tabular commands in this column.

Name

Specifies the online panel name.

Last Modified

Displays the date and time when the online panel member was loaded into the database, and the user or job that perform the load.

Input Commands

The following are the input commands available on the Online Panel Selection List panel and their descriptions:

LOCATE

Scrolls to the entry whose name you specify as the operand of the command.

If the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified.

Valid entries are L, LOC, and LOCATE.

CONFIRM

Enables or disables the display of the Confirm Delete panel when definition data is to be deleted using the D selection code. The default is ON. Confirmation is automatically enabled when a new command is entered on the Primary Selection Menu panel.

The syntax of the CONFIRM command is as follows:

```
CONFIRM  [ ON | OFF ]
```

Where:

ON

Indicates to enable the Confirm Delete panel. No subsequent delete requests are processed without requesting user confirmation.

OFF

Indicates to disable the Confirm Delete panel. All subsequent delete requests are processed without requesting user confirmation.

SELECT

Selects the online panel member you specify as the operand of the command for display.

If the specified online panel member does not exist, an error message displays.

Valid entries are S, SEL, and SELECT.

Selection Codes

You can select one or more online panel members for processing by entering one of the selection codes listed as follows. Enter the selection code to the left of, and on the same line as, the online panel member name to be selected.

D

Deletes the online panel member from the database.

S

Displays the online panel member.

Confirm Delete Panel

The Confirm Delete panel is used to ensure you want to delete a specific item. This panel is displayed when issuing a delete against any database record.

To display the Confirm Delete panel, enter **D** against an item in the database, and press Enter.

```
CA Deliver -------------------- Confirm Delete -------------------------------

Command ===>


JOB NAME: TRJOB02


  Set delete confirmation off

Press ENTER key to confirm delete request.
Enter END or CANCEL command to cancel delete request.
```

Fields

The following are the Instructions fields on the Confirm Delete panel and their descriptions:

Title

Specifies the name and identifier of the field being deleted.

Set delete confirmation off

Indicates to bypass the display of subsequent Confirm Delete panels. The value can be any nonblank character.

Instructions

Provides instructions that allow you to confirm the delete request or cancel the delete request.

Display List Filtering

You can refine or restrict the amount of data displayed on the Active Bundle List, Active Report List, Bundle Selection List, Distribution Selection List, Job Selection List, Report Selection List, and Cross-Reference panels by filtering data. Enter filtering data on the line directly following the column headings on the panels.

When the filtering fields are changed, the panel redisplays with entries that match the specification. When filtering data is specified for multiple fields, only entries matching all the filtering criteria are displayed.

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

```
CA Deliver ---------------- Job Selection List (1) ----------------------------
Command ===>                                                 Scroll ===> PAGE

Sel Jobname          Description
===> *               *DETAIL*
    BAJEDCSI         JOURNAL BATCH DETAIL-CSI
    BAJEDMDF         MDF AJE DETAIL REPORT FOR GINA SMITH
    BAJEDRS8         RS8 AJE DETAIL REPORT FOR GEORGE JONES
    CPOSUP30         UP DETAIL REPORTS
    CPOSUP31         SUP MONTH END DETAIL REPORT
    RBKPDE12         R12 DETAIL ACCT
    RBKP6639         AUTO LEASE DETAIL
    RPAYQTR1         RS1 QUARTERLY DETAIL
    RPAYQTR5         RS5 QUARTERLY DETAIL
    RPAYTIP2         TIP DETAIL — AMALGAMATED MANUFACTURING CO
    TCCBRR02         BAD CREDIT DETAIL RPT
    TTCWKY03         GRID STATION DETAIL
    VPAYQTRC         CSI QUARTERLY DETAIL
    VPAYQTR1         TNB QUARTERLY DETAIL
***************************** Bottom of Data ******************************
```

The Job Selection List panel provides a secondary display that shows additional filtering information. The Job Selection List panel toggles between the two displays when the RIGHT or LEFT input command is entered or a PF key is pressed.

```
CA Deliver ---------------- Job Selection List (2) ----------------------------
Command ===>                                             Scroll ===> PAGE

Sel Jobname          -- Last Changed --  User
==> *                *2013       *        *
    BAJEDCSI         10/05/2013 11:16:20 DSTECK1
    BAJEDMDF         11/06/2013 18:58:33 WSMITH1
    BAJEDRS8         11/07/2013 10:16:14 MBISHO1
    CPOSUP30         08/31/2013 16:24:00 DSTECK1
    CPOSUP31         09/04/2013 12:13:48 DSTECK1
    RBKPDE12         08/02/2013 11:54:06 MBISHO1
    RBKP6639         05/06/2013 12:53:15 MBISHO1
    RPAYQTR1         02/25/2013 10:56:58 CAYERS1
    RPAYQTR5         02/25/2013 11:08:36 CAYERS1
    RPAYTIP2         03/16/2013 13:51:10 CAYERS1
    TCCBRR02         09/29/2013 10:33:22 MANDER1
    TTCWKY03         04/22/2013 10:26:41 CAYERS1
    VPAYQTRC         10/30/2013 11:34:29 CAYERS1
    VPAYQTR1         10/30/2013 11:35:39 CAYERS1
***************************** Bottom of Data *******************************
```

Special Filtering Characters

Special filtering characters, listed as follows, are provided as pattern matching characters. All other characters reference a match of that specific character. The special filtering characters are:

*

Matches any string of characters.

This character is a fuzzy match character that can reference any number of characters and 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.

^

Matches a single non blank character.

Filtering Examples

The following are the various filtering specifications:

*

Matches any data.

LATE

Matches data equal to LATE.

QUE*

Matches data that starts with QUE.

PAY

Matches data that contains PAY.

*2000

Matches data that ends with 2000.

06*2000

Matches data that starts with 06 and ends with 2000.

W*RPT*

Matches data that starts with W and contains RPT.

*ACC*T*

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

?A*

Matches data that contains A in the second position.

???WKLY

Matches data that contains three characters followed by WKLY.

^*

Matches data that starts with a non blank character.

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