

CA-Deliver™ for OS/390 & z/OS

Administrator Guide

1.7



Computer Associates™

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Introduction

Welcome to the CA-Deliver report distribution and tracking system! This guide introduces you to the features and functions of CA-Deliver using step-by-step procedures.

What's in This Guide?

The following chapters are included:

Chapter 1, "[Introduction](#)" describes how to use this guide.

Chapter 2, "[Welcome to CA-Deliver](#)" describes CA-Deliver and the types of reports you can define using CA-Deliver.

Chapter 3, "[CA-Deliver Basics](#)" teaches you how to navigate through the panels, and describes the commands you can use on the panels.

Chapter 4, "[Starting CA-Deliver](#)" tells you how to start CA-Deliver.

Chapter 5, "[Defining Basic Reports](#)" explains what a basic report is and shows you how to define them.

Chapter 6, "[Defining Stacked Reports That Contain Exclusive Segments](#)" describes how to define stacked reports that contain a unique and exclusive segment of a single SYSOUT data set.

Chapter 7, "[Defining Stacked Reports That Contain Overlapping Segments](#)" tells you how to define reports that contain overlapping segments from a single SYSOUT data set that may be partially or wholly duplicated in other reports.

Chapter 8, "[Defining Reports Created From Interleaved Records](#)" tells you how to define reports created from interleaved records taken from a SYSOUT data set.

Chapter 9, "[Defining Reports That Contain Control Breaks](#)" tells you how to define a report that contains control breaks.

Chapter 10, "[Creating a Bundle of Reports](#)" tells you how to create a bundle of reports; specify bundle definition attributes; and list, display, and manage bundles of reports.

Chapter 11, "[Deleting Reports and Rerunning Jobs That End Abnormally](#)" tells you how to manually delete reports and rerun jobs that end abnormally.

Chapter 12, "[Obtaining Historical Data](#)" explains how to obtain and display historical data about CA-Deliver reports and bundles.

Chapter 13, "[Archiving and Reprinting CA-Deliver Reports with CA-View](#)" shows you how to use CA-View to Archive and reprint CA-Deliver reports.

Chapter 14, "[Deleting Job Names, Distribution Identifiers, and Bundle Identifiers From Your Test Database](#)" describes how to delete job names, distribution identifiers, and bundle identifiers from a CA-Deliver database.

Chapter 15, "[Displaying and Deleting Elements in the CA-Deliver Database](#)" provides information about displaying, browsing, and deleting banner page, printer setup, and online commands in the CA-Deliver database.

Chapter 16, "[Defining a Distribution List](#)" describes how to define and use a distribution list with CA-Deliver.

Appendix A, "[CA-Deliver Panels and Subpanels](#)" provides information about using all of the panels and subpanels, including a description of fields and input values, and provides an example of every CA-Deliver panel and subpanel.

Who Should Read This Guide?

This guide contains concepts and procedures; it is targeted primarily to the CA-Deliver report administrator who is responsible for the following:

- Production control
 - Setting up jobs; monitoring output for accuracy; determining if jobs must be rerun; and similar tasks
- Operations
 - Posting bundles; verifying that jobs execute; tracking reports; printing bundles; deactivating reports, bundles, and jobs; and similar tasks

- Job scheduling
Setting up schedules of predecessor and successor jobs to manage what executes in daily cycles
- Writing applications that use CA-Deliver
- Installing and maintaining CA-Deliver

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

Tips for Using This Guide With CA-Deliver

To get the most out of this guide and CA-Deliver:

- Read the chapters in this guide in sequence—each successive chapter builds on the skills you develop in the preceding chapter.
- Enter some of the example identifiers, jobs, and reports presented in this guide.

By trying the examples, you will have a better understanding of how CA-Deliver works.

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

- Use a test CA-Deliver database when performing the procedures in this guide.
- When you are finished reading this guide, delete all jobs and identifiers you defined to avoid cluttering your test CA-Deliver database. The chapter [“Displaying and Deleting Elements in the CA-Deliver Database”](#) lists the items in the database that you must delete and tells you how to delete them.

Note: All report information you enter will be deleted automatically.

Product Documentation

The following publications are supplied with CA-Deliver 1.7:

- *CA-Deliver Getting Started*
- *CA-Deliver Administrator Guide*
- *CA-Deliver Reference Guide*

Contacting Technical Support

Technical support is available 24 hours a day, 7 days a week.

For technical assistance with CA-Deliver, contact Computer Associates Technical Support at <http://esupport.ca.com>.

Conventions Used in This Guide

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

Commands and Parameters

Commands and parameters are shown in `this font`. You enter these in CA-Deliver exactly as shown.

Variables

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

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 to the right side of the main part of the keyboard. PF keys are usually marked PF or simply F followed by one or two digits (for example, PF1 or F12).

New Features and Enhancements in This Release

CA-Deliver 1.7 contains many enhancements which make the online administration of reports easier and faster. Some of these new features for Release 1.7 are as follows:

SORT command for display list data. This allows you to sort by any field on the following display panels:

- Active Report List (Primary and Alternate) panels
- Active Bundle List (Primary and Alternate) panels
- Bundle Selection List panel
- Bundle Distribution Specifications panel
- Bundle Report Specifications panel
- Distribution Selection List panel
- Job Selection List panel
- Report Selection List panel
- Report Distribution Specifications panel
- Report XREF for Distid panel

When a display panel is sorted, the number of rows in the table will appear in the message area at the top right corner of the display.

Filtering of selection list data to restrict lists to just the set of data you need.

Filtering fields are supported on several selection list panels to refine or restrict the number of entries displayed in a list. Filtering is available on the following panels:

- Active Report List (Primary and Alternate) panels
- Active Bundle List (Primary and Alternate) panels
- Bundle Selection List panel
- Distribution Selection List panel
- Job Selection List panel
- Report Selection List panel

4-digit years on all online panels. Online panels and batch reports that contain a date now display a 4-digit year. CA-Deliver also supports eight date formats:

- MM/DD/YYYY (default)
- DD/MM/YYYY
- YYYY/MM/DD
- YYYY/DD/MM
- MM/DD/YY
- DD/MM/YY
- YY/MM/DD
- YY/DD/MM

COPY command enhanced to copy all of the data under a job. With the COPY command, you no longer have to copy each individual report. The COPY command, copy tabular command, and repeat tabular command have been enhanced on the Reports for Job panel to copy all of the report definition data when the copied or repeated report identifier reference is renamed.

The COPY command has additional parameters to allow automatic renaming of the report identifier names when the job data is copied.

Automatic copy facility. For panels that support copying of data into a table, the previously required after (A) or before (B) tabular command is not required if the data is copied into an empty table.

FIND command support. The FIND command is now available on the following panels:

- Bundle Distribution Specifications panel
- Bundle Report Specifications panel
- Reports for Job panel
- Report Distribution Specifications panel

For panels that support the SORT command, the FIND command locates databased on the first or only sort field.

Distribution Lists to make report distribution easier. You can now have multiple distribution points defined to a single Distid.

Distribution specifications, similar to the Report Distribution Specifications panel, can now be defined to a distribution list. This facility allows distribution specifications to be defined externally from the report definition and shared across multiple reports.

Distribution Lists contain a Distribution Identifier display. A display containing the distribution lists that a distribution identifier has been defined to can be obtained from the Distribution Selection List panel via the SL tabular command.

The new Distribution Lists with Distid panel displays the distribution list name, destination, external writer, copies, output indicator, CA-View logical view restriction indicator, CA-View delete restriction indicator, and CA-View reprint restriction indicator.

The output and viewing requirements defined in the distribution list for a distribution identifier can be changed, added, or deleted.

REDISPLAY command extended to more panels. The REDISP command, which can be specified as RED, REFRESH, or REF, is now available on the following panels:

- Bundle Selection List panel
- Distribution Selection List panel
- Job Selection List panel
- Report Selection List panel

Automatic selection based on cursor position on many panels. An entry can be selected automatically by placing the cursor on the desired line and pressing the Enter key. This type of selection is equivalent to an S tabular command.

The automatic selection feature is available on the following panels:

- Primary Selection Menu panel
- Bundle Selection List panel
- Bundle Distribution Specifications panel
- Bundle Report Specifications panel
- Distribution Selection List panel
- Job Selection List panel
- Reports for Job panel
- Report Selection List panel
- Report Distribution Specifications panel
- Report Xref for Distid panel

Multiple internal security tables. This allows you to run many CA-Deliver tasks with individualized security tables. You should define only one table per database.

External security interface. This allows you to have CA-Deliver make calls to an external security manager by specifying a CA-Deliver initialization parameter, rather than using its own internal security table.

Report Description added on Bundle Report Specifications panel. The report description displays to the right of the report identifier on the Bundle Report Specifications panel.

First address line added on the Bundle Distribution Specifications panel. The first address line displays to the right of the distribution identifier on the Bundle Distribution Specifications panel.

Four-character selection codes internally supported. Four-character selection codes are supported on display lists that support the edit tabular commands that are used to copy, delete, move, repeat, and insert entries.

The actual panels, as distributed, still contain a two character selection code so that display data will not be lost. The panels, however, can be modified at the client's discretion to provide a larger selection code field.

Enhanced Active Reports/Bundle command. A specific or generic identifier can be specified on the A command from the Primary Selection Menu. This identifier is used as filtering criteria to refine the Active Report or Bundle List.

Inactivate force command added to various panels. The UF tabular command has been added to the following panels:

- Job Selection List panel
- Reports for Job panel
- Report Selection List panel

J selection command changed. The J selection code, which is supported on the Active Report List and Report Selection List panels, now positions the Reports for Job panel at the selected report identifier in the list.

z/OS 1.2 JOBID changed. In z/OS Version 1 Release 2, IBM changed job identifiers from three letters followed by five numbers to one letter followed by seven numbers. CA-Deliver 1.7 supports this change.

Bundle display from Report Definition. A list of bundles can be displayed and maintained from the Report Definition Attributes panel. A new primary command (B) has been added to the Report Definition Attributes panels to access the bundle list.

Report display from Distribution Selection List. A list of reports defined to a distribution list can be obtained from the Distribution Selection List or Distribution Lists with Distid panels via the SR tabular command.

The new report list displays the report identifier, destination, external writer, copies, output indicator, CA-View logical view restriction indicator, CA-View delete restriction indicator, and CA-View reprint restriction indicator.

The output and viewing requirements for the reports can be changed, added, or deleted.

External writer added to various panels. An external writer identification has been added to the following panels:

- Report Definition Distribution Specifications Panel
- Distribution Data Panel
- New Distribution List Distribution Specifications Panel

CA-Connect destination identification. The distribution data panel has been changed to allow designation to a CA-Connect destination.

Previously, a CA-Connect destination was identified by placing "PREVAIL/XP-CONNECT" in the first address line of the distribution identifier. A new field has been added to the panel to make that designation. The database conversion process will recognize and appropriately convert the old form of designation.

Full page text search. The Report Definition Text Specification panel has been changed to allow a full page text search.

The line field on the Report Definition Text Specification panel now allows you to specify an asterisk (*) to search all lines on a page (up to a maximum of 255 lines).

Accordingly, the column field specification has been changed to allow you to specify an asterisk (*) to search all the columns on a line instead of the previous specification of a blank.

No IPLs. When maintenance was applied to certain CSA modules on prior releases of the product, an IPL of the MVS system was required to activate the maintenance. The CA-Deliver started task now has a new "REFRESH" start up parameter that can be used to reload static CSA modules.

Enhanced Recoverability. The CA-Deliver started task has been enhanced to recognize and respond to abends of the process request subtask, checkpoint subtask, history detail subtask, and network input subtask.

Also, the CA-Deliver request queue will be validated and recovered, if necessary, when the CA-Deliver started task is started.

SAPI Support. The network input subtask of the CA-Deliver started task now supports the new IBM SAPI interface instead of the old IBM PSO interface for selecting SYSOUT datasets from JES.

The IBM SAPI interface allows retrieval of output statement information for a SYSOUT data set. The IBM SAPI provides a standardized interface for both JES2 and JES3.

With the SAPI interface, SYSOUT datasets from jobs or DD statements that are not defined to the CA-Deliver database will be requeued to the new class, destination, and forms specified on the NETCLSL, NETDEST, and NETFORM initialization parameters. The same occurs for reports defined as MONITOR. These requeued SYSOUT datasets will retain their original job name and job identifier. If an error occurs while requeuing the SYSOUT dataset, a RMOPS208 message will be generated, and the SYSOUT dataset will be placed in a hold status. Basic, stacked, interleaved, and control reports will be produced under the CA-Deliver started task and retain the name of the CA-Deliver started task name. UNDEF reports will only be generated for stacked reports.

Reduced Below-the-line Storage. With prior releases of CA-Deliver, 696 bytes of below-the-line storage was needed for each recipient of a report. If 1000 stacked reports are defined for a DD statement with 10 recipients each, 7 meg (1000 x 10 x 696) of below-the-line storage was needed. The new release now uses only 168 bytes of below-the-line storage for each recipient when the report is being produced.

In other words, the below-the-line storage is used only when the page selection text (text specifications) has matched for a report. Direct to View archival reports no longer require additional below-the-line storage.

Checkpoint File Blocks Recovered. With prior releases of CA-Deliver, CRJ and CRB blocks were never returned to the free chain. The new release now frees all blocks.

Deletion of output statements. During the distribution process, CA-Deliver allocates output statements to properly distribute reports to recipients. Previously, these created output statements were not deleted and could cause serious problems with the CA-Deliver started task.

The network input task and bundle output task are long running subtasks of the CA-Deliver started task. Both of these tasks create output statements to distribute reports or bundles. Since the output statements are not deleted, SWA control block storage can be exhausted and cause the CA-Deliver started task to abend with a S878 abend.

The new release now deletes output statements after sysout data sets are allocated for a report.

Stacked Report Performance. Basic history data was previously created when the DD statement for a series of stacked reports was opened. Basic history data for stacked reports that did not have any selectable pages will contain null history entries with no lines, pages, or queued date.

The new release produces basic history data for a report when the page selection text (text specifications) is matched to a page of data. Basic history data will not be generated if no page data is matched. The intent of this enhancement is to reduce the overall number of database I/Os performed by the CA-Deliver started task, thus increasing the overall performance and throughput of the started task.

This streamlined performance only applies to sites that are not recording history detail data.

RMOPARMS. BAL, BALSEL, BALOFFPW, and BALSEP and BALDEC are obsolete and must be removed from RMOPARMS.

Batch utilities changes. The database build utility (RMOBB) has been enhanced with the ability to define and maintain the new distribution list records. You can also use RMOBB to assign a bundle wait for late time indication, report distribution external writer, distribution external writer, CA-Connect destination designation, and to sort the report distribution specifications, distribution list specifications, bundle report specifications, and bundle distribution specifications.

The general report writer (RMOGRW) has been enhanced to print or output the new distribution list records. You can also use RMOGRW to print or output the bundle wait for late time indication, bundle remaining interval time, bundle active count, bundle pending count, bundle ready count, reports bundled count, report distribution external writer, distribution external writer, and CA-Connect destination designation.

The internal date format for RMOGRW has changed to a binary number of days since 1900 to resolve date calculation, such as CDATE-3. The printing format of date fields is now based on the default date format which may alter the format of existing reports. The EDIT function has also been enhanced to allow formatting of a four-digit year.

Optimized delete of distribution identifiers. Cross-reference records are now utilized to streamline the removal of distribution references from report and bundle records when a distribution record is deleted as opposed to sequentially reading and scanning all report and bundle records.

Common component upgraded. The EBC Common Component has been upgraded to Release 2.3. If you are running cross-memory (XMS) regions with CA-View and CA-Deliver combined, you should upgrade these regions to use the latest release of the EBC code.

Before Upgrading from Releases 5.1 and 1.6. Upgrade considerations from Releases 5.1 and 1.6 are discussed in Step 24 in the chapter “Installing CA-Deliver” in the *CA-Deliver Getting Started Guide*. Do **not** bring up CA-Deliver 1.7 without reviewing this step.

Welcome to CA-Deliver

This chapter provides an overview of CA-Deliver, lists the supported online terminal management systems, describes the types of data in the CA-Deliver database, and the different 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 abnormally-ended jobs
- Obtain historical data and detail historical data about reports and bundles
- Identify the ways you can archive and reprint CA-Deliver reports with CA-View

What Is CA-Deliver?

CA-Deliver is an automated online report distribution and output tracking system for use on the IBM and MVS/ESA operating systems.

- *Online* refers to accessing data in the CA-Deliver database by means of a computer terminal.
- In CA-Deliver, 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

CA-Deliver has a series of panels that allow you to display, change, distribute, and track information in the CA-Deliver database according to the attribute categories you specify.

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

- Separate SYSOUT (system output) into individual reports
- Generate banner pages that list individuals who are to receive reports when they are distributed
- Bundle reports according to individuals and groups of individuals
- Maintain historical data on bundles and reports

Supported Online Terminal Management Systems

Online terminal management systems from which you can access CA-Deliver include:

- Native TSO
- SPF/ISPF
- CA-Roscoe
- CICS
- VTAM

If You Use SPF/ISPF

All features and functions of CA-Deliver work the same under the online terminal management systems listed in the previous section *except* SPF/ISPF.

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.

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 CA-Deliver Database

The CA-Deliver database maintains six types of data, as follows:

- Job description data
- Report description data
- Distribution data
- Bundle description data
- Active report status data
- Active bundle status data

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

CA-Deliver Reports

There are several types of reports that you can define with CA-Deliver. Each type of report is described in this section.

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

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

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

For more information, see the chapter [“Defining Stacked Reports That Contain Exclusive Segments.”](#)

Stacked Reports That Contain Overlapping Segments

A *stacked report that contains overlapping segments* is a report that contains one or more segments of a single SYSOUT data set that may be wholly or partially duplicated in other reports.

An *overlapping segment* is one or more pages of data, extracted from a single SYSOUT data set and placed in a report that may be wholly or partially duplicated in other reports.

For more information, see the chapter "[Defining Stacked Reports That Contain Overlapping Segments.](#)"

Reports Created From Interleaved Records

A *report created from interleaved records* is a report that contains individual records extracted from a single SYSOUT data set.

For more information, see the chapter "[Defining Reports Created From Interleaved Records.](#)"

Reports With Control Breaks

A *report with control breaks* is a report that contains an entire SYSOUT data set that is distributed as a unit and which includes one or more separator pages inserted within the report wherever you specify.

A *control break* is a point at which CA-Deliver divides a SYSOUT data set into unique parts and inserts a special separator page to create, in effect, separate reports.

For more information, see the chapter "[Defining Reports That Contain Control Breaks.](#)"

A Bundle of Reports

A *bundle* of reports defines a package of reports generated by one or more jobs and 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.

For more information, see the chapter "[Creating a Bundle of Reports.](#)"

CA-Deliver Basics

This chapter describes the basic system conventions of CA-Deliver and how to use them, and includes the following:

- How to scroll through information displayed on a panel quickly and easily
- How to use the CA-Deliver system-wide commands
- How to program the function (PF) keys to help you navigate through panels and subpanels
- How to use the CA-Deliver input commands
- How to use the CA-Deliver scroll field options
- How to use the CA-Deliver tabular commands

Note: Some topics which are introduced in this chapter (for example, specific identifiers and panel contents) are also described in subsequent chapters of this guide.

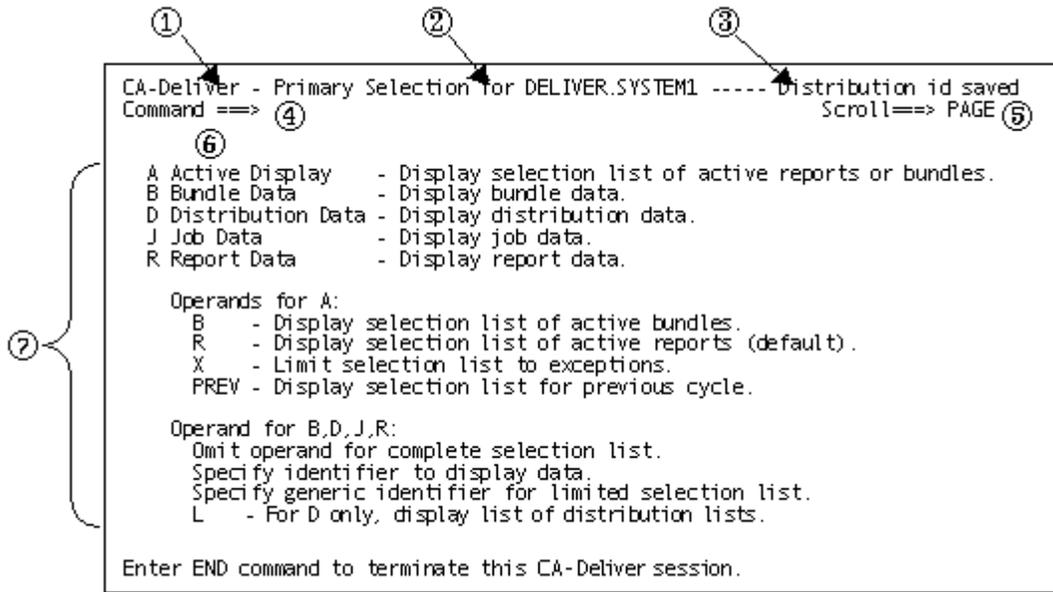
Using CA-Deliver Panels and Subpanels

This section provides a sample of all panels and subpanels used in CA-Deliver, along with panel descriptions and valid entries you can use.

Panel Format

The Primary Selection Menu panel is presented when you start CA-Deliver. This panel is typical of all CA-Deliver panels in that the first three lines of CA-Deliver online panels share a common format.

The following illustrates the typical parts of a CA-Deliver panel:



Panel Item	Description
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: <ul style="list-style-type: none"> ■ The current line number and column position of the cursor ■ A message describing either a successfully completed process or an error <p>An error is usually accompanied by an audible alarm if your terminal is equipped with sound capabilities.</p> <p>You can display more information about error messages in the long message area.</p>
4 Command line	Provides the area on the panel where you enter commands or options (described later in this chapter)

Panel Item	Description
5 Scroll field	<p>Displays the scroll field option you select that allows you to scroll through the display by panels, lines, columns, up and down, and top and bottom</p> <p>This field is also used to permanently change or temporarily override the scroll field option.</p> <p>Scroll field options are described in the section Using Scroll Field Options later in this chapter.</p> <p>The scroll field displays on selected panels only.</p>
6 Long message area	<p>Displays additional information about error messages displayed in the short message area on the panel</p> <p>You display the additional error information by issuing the HELP command when an error message is displayed in the short message area.</p> <p>On some panels, the error information displayed in the long message area may temporarily obscure column headings or other panel information.</p> <p>Note: In the illustration, the error information is not illustrated in the long message area.</p>
7 Panel body	<p>Displays unique panel information, such as lists of options, input fields, or text that you can scroll</p> <p>Note: In the illustration, the panel body contains a list of options.</p>

Navigating Between Fields on a Panel

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

Using CA-Deliver Commands

The three types of commands used in CA-Deliver are as follows:

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

Each of these commands is described later in this chapter.

You also use display commands and browse commands to display and delete elements in the CA-Deliver database. These commands are described in the chapter "[Displaying and Deleting Elements in the CA-Deliver Database.](#)"

System-Wide Commands

System-wide commands are commands you can use on any CA-Deliver panel. Enter system-wide commands on the command line, as shown in the following illustration:

```

CA-Deliver ----- Report Selection List -----
Command ==> HELP                                     Scroll ==> PAGE

Sel Report Id          -- Last Changed -- User      Description
==> *                  *      *          *          *
TTAXQ001-R01          04/10/1995 10:02:05 GROBER1   QUARTERLY TAX
TTAXQ001-R05          04/10/1995 10:01:42 GROBER1   QUARTERLY TAX
TTAXQ001-R10          04/10/1995 10:01:42 GROBER1   QUARTERLY TAX
TTAXQ001-R15          04/10/1995 10:01:43 GROBER1   QUARTERLY TAX
TTAXQ001-R20          04/10/1995 10:01:43 GROBER1   QUARTERLY TAX
TTAXQ001-R25          04/10/1995 10:01:59 GROBER1   QUARTERLY TAX
TTAXQ001-R30          04/10/1995 10:01:59 GROBER1   QUARTERLY TAX
TTAXQ001-R35          04/10/1995 10:01:59 GROBER1   QUARTERLY TAX
TTCDLY01-R06          09/24/1992 11:08:09 DSTECK1   CREATE SMDR DAILY
TTCDLY01-R10          09/24/1992 11:08:09 DSTECK1   CREATE SMDR DAILY
TTCDLY02-R01          02/15/1995 10:00:01 JHASHA1   SIXTY MINUTE REPORT
TTCMTH02-R01          09/25/1992 09:41:07 DSTECK1   SDN LNGDST CHARGE SUMMAR
TTCMTH02-R02          09/25/1992 09:41:50 DSTECK1   PRE STORE LONG DIST BILL
TTCMTH02-R03          09/24/1992 17:20:57 DSTECK1   PRE STORE LONG DIST ZERO
TTCMTH02-R04          09/24/1992 17:21:28 DSTECK1   PRE STORE LONG DIST JNLS
TTCMTH02-R05          09/25/1992 09:42:11 DSTECK1   PRE CCARD LONG DIST BILL
TTCMTH02-R06          09/24/1992 17:19:57 DSTECK1   PRE CCARD LONG DIST ZERO
TTCMTH02-R07          09/24/1992 17:20:02 DSTECK1   PRE CCARD LONG DIST JNLS
TTCMTH02-R08          09/24/1992 11:20:54 DSTECK1   SWB DIRECT DIAL SUMMARY

```

System-wide commands are:

- HELP
- END
- RETURN
- UP, DOWN, LEFT, RIGHT
- CURSOR
- RETRIEVE
- = (JUMP)
- KEYS

System-Wide Command Functions

The system-wide commands are described in the following table:

System-Wide Command	Description
HELP	<p>Starts the CA-Deliver tutorial and provides information about the panel currently displayed; also provides additional information in the long message area to augment an error message that displays in the short message area</p> <p>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.</p>
END	<p>Saves any changes you make to a panel, terminates the CA-Deliver operation you are currently performing, and returns to the previous panel</p> <p>To save changes, terminate CA-Deliver and return to the previous panel, enter END on the command line on the Primary Selection Menu panel.</p>

System-Wide Command	Description
RETURN	<p>Saves any changes you make to a panel, bypasses all intermediate-level panels, and returns to the Primary Selection Menu panel</p> <p>To terminate CA-Deliver, go to the Primary Selection Menu panel, then enter RETURN on the command line.</p>
UP, DOWN, LEFT, or RIGHT	<p>Used in conjunction with the scroll field options (for example, half page, full page, top, bottom), allows you to scroll up, down, left, or right through the text displayed on the current panel whenever the text extends beyond the borders of the screen</p> <p>To define the scroll value, enter UP, DOWN, LEFT, or RIGHT on the command line on the Primary Selection Menu panel. The scroll field options are described in the section Using Scroll Field Options later in this chapter.</p>
CURSOR	<p>Moves the cursor to the command line on the panel that is currently displayed</p>
RETRIEVE	<p>Displays a previously entered system-wide command or input command on the command line</p> <p>The commands are recalled in a most recent to earliest sequence. A command can be changed, if desired, and entered for processing by pressing the Enter key.</p>

System-Wide Command	Description
= (JUMP)	<p>Allows you to jump from one operation or panel to another operation or panel without displaying intervening panels</p> <p>You can enter this command (referred to as the JUMP command) on the command line or in any input field on any panel.</p> <p>Syntax: =<i>xy</i></p> <p>Where <i>x</i> is an option and <i>y</i> is an operand.</p> <p>The options are as follows:</p> <ul style="list-style-type: none"> A Active Display B Bundle Data D Distribution Data J Job Data R Report Data <p>The operands are as follows:</p> <ul style="list-style-type: none"> B Displays a list of active bundles R Displays a list of active reports, which is the default X Limits the list to exceptions PREV Displays a list for a previous cycle <p>Example: =A B immediately displays a selection list of active bundles.</p> <p>You can select all of the options and operands for the = (JUMP) command on the Primary Selection Menu panel.</p>

System-Wide Command	Description
KEYS	Assigns or reassigns CA-Deliver commands to PF keys Assigning CA-Deliver commands to PF keys is described in the section Assigning and Reassigning PF Keys later in this chapter.

Entering System-Wide Commands

There are two ways you can enter system-wide commands:

- Press the PF key to which the system-wide command is assigned.
- 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

CA-Deliver allows you to assign command functions to PF keys. You can use either the default PF key assignments or you can assign command functions to PF keys by using the KEYS command.

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 program function 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 CA-Deliver PF key assignments are as follows:

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

The purpose of each system-wide command and the function of its corresponding PF key are presented in the following table. The PF key functions in the table are the same as their corresponding system-wide commands, which are covered in the previous section.

PF Key	Function
PF 1 PF 13 HELP	Starts the CA-Deliver tutorial and provides information about the panel currently displayed; also provides additional information 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, allows the display to be split into two logical sessions
PF 3 PF 15 END	Saves any changes you make to a panel, terminates the CA-Deliver operation you are currently performing, and returns to the previous panel
PF 4 PF 16 RETURN	Saves any changes you make 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; only supported on selective table displays

PF Key	Function
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 5px; padding: 2px; text-align: center;">PF 7 PF 19 UP</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px; text-align: center;">PF 8 PF 20 DOWN</div> </div>	Scrolls up, down, left, or right through the text displayed on the current panel whenever the text extends beyond the borders of the screen
<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 5px; padding: 2px; text-align: center;">PF 10 PF 22 LEFT</div> <div style="border: 1px solid black; border-radius: 5px; padding: 2px; text-align: center;">PF 11 PF 23 RIGHT</div> </div>	
<div style="border: 1px solid black; border-radius: 5px; padding: 2px; text-align: center;">PF 9 PF 21 SWAP</div>	Under SPF/ISPF, allows the display to be switched from one logical session to another logical session
<div style="border: 1px solid black; border-radius: 5px; padding: 2px; text-align: center;">PF 12 PF 24 CURSOR</div>	<p>Moves the cursor to the command line on the current panel</p> <p>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.</p> <p>Scroll field options are described in the section Using Scroll Field Options later in this chapter.</p>

Assigning and Reassigning PF Keys

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

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

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

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

1. Enter **KEYS** on the command line of any CA-Deliver panel, and press Enter to display the PF Key Definition panel.

```

CA-Deliver - PF Key Definitions - Primary Keys -----
Command ==>

Number of PF Keys ==> 24

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 alternate keys. Enter END command to exit.

```

2. Choose the PF key you want to assign or reassign, then enter the name of the command at the prompt (==>).
3. 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 1 to 12), 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 definitions below apply only to terminals with 24 PF keys.

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 primary keys. Enter END command to exit.

```

The panel for the operation you were performing when you issued the **KEYS** command redisplay.

Scroll Field Options

The *scroll field options* allow you to specify the number of columns or lines of text to scroll at one time when you issue an UP, DOWN, LEFT, or RIGHT system-wide command or press an assigned 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 scroll field options in the scroll field, and press Enter.

Scroll Field Option	Description
HALF or H	Scrolls half of the panel in the specified direction: up, down, right, or left
PAGE or P	Scrolls one full panel in the specified direction: up, down, right, or left
DATA or D	Scrolls one full panel in the specified direction, less one line or one column of text 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

Scroll Field Option	Description
CSR or C	<p>Scrolls in the specified direction to the position of the cursor on the panel</p> <p>For example, if you press PF8 or PF20, or issue the DOWN system-wide command, the line where the cursor is located moves to the top of the panel.</p> <p>If you press PF7 or PF19, or issue the UP system-wide command, the line where the cursor is located moves to the bottom of the panel.</p> <p>Note: This scroll field option works only when you scroll up or down; it does not work when you scroll left or right.</p>
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 presented in the previous table over the old scroll option that appears in the scroll field.

The new scroll option you specify 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

There are two methods you can use to temporarily override the value that appears in the scroll field.

Method 1

Enter the scroll system-wide command you want on the command line, followed by a blank and one of the scroll options presented 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 presented 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, then press PF8 or PF20.

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

Input Commands

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

```

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

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

  Desc ==> EDIT DATA FOR ACCOUNTING

Attributes:
ARCH ==>                BANNER ==>                BURST ==>
CC   ==>                CLASS  ==>                COPIES ==>
FCB  ==>                FORM   ==>                FLASH ==> ( , )
LATE ==>                OPTCDJ ==>                UCS   ==>
FORMDF ==>            PAGEDF ==>                PRMODE ==>
PRSET ==>                PRTY   ==>
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
- COPY
- FIND
- LOCATE
- REDISP
- RFIND
- SELECT
- T (TRACK)

Input Command Functions

Input commands are described in the following table:

Input Command	Description
CANCEL or CAN	<p>Terminates the current panel without saving your changes</p> <p>Note: The changes you make to the Reports for Job panel are saved when you enter CANCEL.</p>
COPY <i>identifier</i> <i>defining Param</i>	<p>Copies definition specifications from a panel or previously defined report to the current panel or report definition</p> <p><i>identifier</i></p> <ul style="list-style-type: none"> ■ To process a report definition, specify a report identifier. ■ To process a bundle definition, specify a bundle identifier. <p>Example: COPY VENDREPT</p> <p>Copies the same panel you are using from the report VENDREPT to the current report definition</p>

Input Command	Description
COPY <i>identifier</i> <i>defining Param</i> (Continued)	<p><i>defining Param</i></p> <ul style="list-style-type: none"><li>■ 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<li>■ 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 <i>identifier</i>, then specify JOB. Example: COPY TRJOB02 JOB<li>■ Adds all report identifiers for job TRJOB02 to the report specifications of the current job

Input Command	Description
FIND or F	<p>Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel</p> <p>The FIND command is used on certain panels where data is not necessarily maintained in a sorted sequence. The FIND command searches a specific column for data in a forward or backward direction starting from the beginning of the table, the end of the table, or from the current display position.</p> <p>The syntax of the FIND command is as follows:</p> <p>FIND <i>string column</i> [<i>FIRST</i> <i>NEXT</i> <i>LAST</i> <i>PREV</i>] NOT</p> <p><i>string</i> identifies the search data. The string will be matched against data starting in the first position of the search column. The FIND command will 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 displays. The string specification can be omitted to search for the next occurrence of a Stepname, Procstep Name, or DDname on the Reports for Job panel.</p> <p><i>column</i> identifies the field that is to be searched. If omitted, the default or primary column will be 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.</p> <p>Location identifies the origin and direction of the search. If omitted, the search will begin with the row at the top of the current display. Location specifications are as follows.</p>

Input Command	Description	
FIND or F <i>(Continued)</i>	Location	Description
	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
	<p>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.</p> <p>Examples:</p> <p>To search for distribution identifier JOHN on the Bundle Definition Distribution Specification panel, enter the command:</p> <p>Command ==> find john</p> <p>To search for the next Stepname on the Reports for Job panel, enter the command:</p> <p>Command ==> find next step</p> <p>To search for the first occurrence of an output indicator of Y on the Report Definition Distribution Specifications panel, enter the command:</p> <p>Command ==> find y out first</p> <p>To search for the last occurrence of COPIES "*" on the Distribution List panel, enter the command:</p> <p>Command ==> find '*' copies last</p> <p>To search for a previous stacked report definition on the Reports for Job panel, enter the command:</p> <p>Command ==> find stack type prev</p> <p>To search for the next occurrence of a previously entered command, enter the command:</p> <p>Command ==> rfind (normally the PF5 or PF17 key)</p>	

Input Command	Description
LOCATE, LOC, or L	<p>Finds an entry in a list of data, then scrolls to and displays that entry at the top of the panel</p> <p>If the name you specify cannot be found, the entry that would alphabetically precede the entry you specify is displayed.</p> <p>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.)</p> <p>Note: You can only use this command on panels that contain lists of data.</p>
REDIS, RED, REFRESH, or REF	<p>Redisplays a selection list or display list with current data; recent changes and newly added data from the CA-Deliver started task, batch jobs, or online users will be shown</p> <p>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.</p> <p>The REDISP command must be specifically entered to redisplay a sorted list.</p> <p>Note: You can assign REDISP to a PF key or to the Enter key. For details, see the section Assigning the Redisplay Command to a PF Key in the chapter “Creating a Bundle of Reports.”</p>
RFIND	<p>Locates the next occurrence of a previously issued FIND command</p> <p>If another occurrence is not found, a not found message displays. Normally, PF5 and PF17 are defined as the RFIND key.</p>

Input Command	Description
SELECT, SEL, or S	<p>Selects the job name, report, bundle, or distribution identifier you specify on the command</p> <p>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 you specify already exists, an error will occur.</p> <p>Note: A SELECT tabular command is also available. Tabular commands you can use with SELECT are described in the next section.</p> <p>For example, SEL REPORT-R1 displays the entry REPORT-R1.</p>
<i>Tn hdn date time data</i> (TRACK)	<p>Posts a report to a station with tracking data</p> <p>A <i>station</i> is the physical location where you post reports and bundles. You can define up to five report stations and one printer station.</p> <p>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.</p> <p>Where:</p> <p><i>n</i> Indicates a value from 1 to 5 that represents the station to which you want to post the report</p> <p><i>n</i> is optional.</p> <p>If you omit this value, station 1 is specified by default.</p> <p><i>hdn</i> Indicates the history detail number, a unique, ten-digit number that distinguishes individual copies of a non-bundled or bundled report</p> <p>History detail numbers print on banner pages and are used to track recipients of reports and bundles of reports according to distribution identifier.</p> <p><i>Hdn</i> is required.</p> <p>You can omit leading zeros.</p> <p>For more information about historical data and detailed historical data, see the chapter “Obtaining Historical Data.”</p>

Input Command	Description
<p><i>Tn hdn date time data</i> TRACK) (Continued)</p>	<p><i>date</i> Indicates the date when you want the report to be posted, in the default date format</p> <p>This parameter is optional.</p> <p>If you omit <i>date</i> or enter an asterisk, the current date is used.</p> <p>To omit <i>date</i>, enter a comma.</p> <p>To change the default date format, see <i>CA-Deliver Getting Started</i>.</p> <p><i>time</i> Indicates the time when you want the report posted, in an <i>hh:mm</i> format (10:45) or an <i>hh.mm</i> format (10.45)</p> <p>This parameter is optional.</p> <p>If you omit <i>time</i> or enter an asterisk, the current time is used.</p> <p>To omit <i>time</i>, enter a comma.</p> <p><i>data</i> Represents text you want to display in the USER DATA field on the Report Detail Historical Data and Bundle Detail Historical Data panels</p> <p>You can enter 1 to 12 characters in this field.</p> <p>If the text you specify contains embedded blanks, you must enclose the text in single quotation marks.</p> <p>This parameter is optional.</p> <p>If you omit <i>data</i>, your user ID is used.</p> <p>Examples:</p> <p>T 329905 posts station 1 for HDN 0000329905 with the current date and time and with your user ID as the user data.</p> <p>T3 1601 * * 'LATE REPORT' posts station 3 for HDN 0000001601 with the current date and time and the user data "late report."</p>

Tabular Commands

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

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

Tabular Command Functions

There are four types of tabular commands, based on function. You use tabular commands to do the following:

- 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 the tabular commands that are available for the current panel in the long message area, do **one** of the following:

- On any panel, move the cursor to any row in the Sel column, enter a question mark, and press Enter.
- 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      Type ==> STACK
  Step ==>              Procstep ==>              DD      ==>

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      Type ==> STACK
  Step ==>             Procstep ==>             DD      ==>

Special Instructions:
Sel Instruction
'SENSITIVE DATA - ASSURE SECURITY AT ALL TIMES'
*****BOTTOM OF DATA*****
```

Using Tabular Commands to Copy/Move Entries

The Tabular commands that you use to copy or move entries are described in the following table:

Tabular Command	Name	Description
A	AFTER	Indicates the line after the entry to be moved or copied You can use the AFTER command with the following commands: <ul style="list-style-type: none">■ COPY tabular command■ MOVE tabular command■ COPY BLOCK tabular command■ MOVE BLOCK tabular command■ COPY input command (described earlier in this chapter)

Tabular Command	Name	Description
B	BEFORE	<p>Indicates the line before the entry to be moved or copied</p> <p>You can use the BEFORE command with the following commands:</p> <ul style="list-style-type: none">■ 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

The Tabular commands you use to edit entries are described in the following table:

Tabular Command	Name	Description
C	COPY	<p>Indicates the single entry you want to copy</p> <p>You must also use the B or A command to mark the line before or after the line you want to copy.</p> <p>Note: Also see the COPY input command described earlier in this chapter.</p>
CC	COPY BLOCK	<p>Indicates the first and last entries of an area you want to copy</p> <p>You must place the CC command at the first and last entry you want to copy.</p> <p>You must also use the B or A command to mark the line before or after the entries you want to copy.</p> <p>Note: Also see the COPY input command described earlier in this chapter.</p>

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

Tabular Command	Name	Description
Rn	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

The Tabular commands you use to insert blank lines (for new entries) are described in the following table:

Tabular Command	Name	Description
I	INSERT AFTER	Marks an entry where one blank line will be inserted below the current line
In	INSERT AFTER NUMBER	Marks an entry where n specifies the number of blank lines that will be inserted below the current line
P	INSERT PRIOR	Marks an entry where one blank line will be inserted above the current line
Pn	INSERT PRIOR NUMBER	Marks an entry where n blank lines will 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 compose a bundle

Tabular Command	Name	Description
F	FREE	Frees all entries for a report identifier from system ownership
H	DISPLAY HISTORICAL DATA	Displays 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-Rerun or CA-11 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	Forcefully deactivates entries for a specified item (under all circumstances) WARNING! Use this tabular command only as a last resort to clean up entries in a database since some entries may be left on the spool volumes.

Tabular Command	Name	Description
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 CA-Deliver Commands

You can use wild cards and SPF/ISPF command stacks (if you have SPF/ISPF) to save time issuing CA-Deliver commands. This section presents general procedures that allow you to enter CA-Deliver commands quickly and easily.

Using Wild Card Characters

A *wild card 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 data you want to extract from the CA-Deliver database.

The wild card characters used in CA-Deliver are as follows:

Wild Card Character	Description
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 could select each identifier individually, or use a wild card by entering **D D27*** on the command line of the Primary Selection Menu panel, and press Enter.

If external security is implemented with CA-Deliver, you will improve performance by using a wild card character whenever you can. For example, instead of entering J to display a list of all jobs, you can enter **J ABC*** to see specific jobs that begin with ABC. For more information about using wild card characters with external security, see the chapter “Security” in the *CA-Deliver 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 CA-Deliver commands quickly and easily.

Examples

Following are two examples of SPF/ISPF command stacks:

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

- To copy distribution identifier information from distribution identifier D27PROD to new, nonexistent distribution identifier D28PROD, display the Distribution Selection List panel, then enter **S D28PROD; COPY D27PROD** on the command line.

You can also use SPF/ISPF command stacks in combination with CA-Deliver commands.

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

Starting CA-Deliver

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. See your system administrator if CA-Deliver is not installed and set up. The CA-Deliver Getting Started and CA-Deliver Reference Guide describe how to install and maintain CA-Deliver.*

Starting CA-Deliver From Native TSO

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

RMOTSO *hi-name*

Where *hi-name* specifies the high-level name of the CA-Deliver database you want to use, for example, DELIVER.SYSTEM1.

Tip: To simplify invocation, you can use this command in a CLIST.

Starting CA-Deliver From SPF

To start CA-Deliver from SPF, enter the following from the ready prompt:

ISPF PGM(RMOSPF) PARM(*hi-name*)

Where *hi-name* specifies the high-level name of the CA-Deliver database you want to use, for example, DELIVER.SYSTEM2.

Tip: To simplify invocation, you can use this command in a CLIST.

Starting CA-Deliver From ISPF

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

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

Where *hi-name* specifies the high-level name of the CA-Deliver database you want to use, for example, DELIVER.SYSTEM7.

Example

To start CA-Deliver via the ISPF terminal management system, do the following:

1. Log onto your system.
2. Do **one** of the following:
 - If you have a CLIST at your site 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/TSO6 -----
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 Prevail/XP-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) logged on using the ISPF terminal management system.

Note: The options displayed on your ISPF Primary Option Menu panel may differ from the options shown in the illustration.

- To start CA-Deliver and display the Primary Selection Menu panel, enter **D** in the OPTION field, and press Enter.

```

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 CA-Deliver From CA-Roscoe

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

```
CALL RMOROS 'hi-name'
```

Where *hi-name* specifies the high-level name of the CA-Deliver database you want to use, for example, DELIVER.SYSTEMA.

Tip: To simplify invocation, you can use this command in an RPF.

Starting CA-Deliver From CICS

To start CA-Deliver from CICS, enter a predefined transaction identifier. (Your system administrator establishes this identifier when CA-Deliver is installed.)

Starting CA-Deliver From VTAM

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

```
LOGON APPLID (RMOVVTAM) DATA (hi-name)
```

Where *hi-name* specifies the high-level name of the CA-Deliver database you want to use, for example, DELIVER.SYSTEMX.

Note: Your system administrator can specify an abbreviated form of this command when CA-Deliver is installed from VTAM.

Defining Basic Reports

This chapter will provide you with a foundation on which to build your understanding of CA-Deliver, since the procedures for building a basic report definition are the foundation for building the complex report definitions presented in later chapters of this guide. You will learn:

- How to define a distribution identifier and a job in CA-Deliver
- How to identify reports produced by a job
- How to specify report definition attributes
- How to display report identifiers for a distribution identifier
- How to use the undefined report identifier, UNDEF

What Is a Basic Report?

In CA-Deliver, a *basic report* is a report that consists of an entire SYSOUT data set, which is distributed as a unit. A single banner page that contains report and distribution information is attached to both the beginning and end of a basic report.

The following illustration is an example of a basic report (numbered items in the illustration are described following the illustration).

```

    ③ * END ***** AMALGAMATED AMERICAN MANUFACTURING ***** END *
    ② * END *****
    ① * 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 TTTTTT RRRR EEEEE PPPP TTTTTT OOOO 1 *
    * E D D I T R R E P P T O O 11 *
    * EEEEE D D I R RRRR EEEEE PPPP T O O 1 *
    * E D D I T R R E P T O O 1 *
    * E D D I T R R E P T O O 1 *
    * EEEEE DDDDD IIIII T R R EEEEE P T OOOO 11111 *
    * REPORT ID: EDITREPT01 DATE: 07/20/00 *
    * JOBNAM: TRJOB01 TIME: 07:36:04 *
    * JOEID: JOB 3697 CLASS: E *
    * SEND REPORTS TO: *
    * ACCOUNTANT *
    * DEPT. 29 *
    * SPECIAL INSTRUCTIONS *
    * VERIFY DATA, CORRECT ERRORS AND RUN PRODUCTION WHEN READY *
    * START ***** START *
  
```

Part	Description
1. Start banner page	<p>Contains the following information:</p> <ul style="list-style-type: none"> Report identifier that you provide (for example, EDITREPT01) Job name that you provide (for example, TRJOB01) Job identifier (for example, JOB 3697) <p>The Job Entry Subsystem (JES) number is assigned to this job when it is initiated and executed. CA-Deliver maintains the job identifier by reports for the job.</p> <ul style="list-style-type: none"> Date, time, and class (for example, 07/20/00, 07:36:04, E) <p>These numbers indicate the date and time when the SYSOUT data was created and the SYSOUT class to which the reports are written.</p>

Part	Description
1. Start banner page (Continued)	<ul style="list-style-type: none"> ■ Distribution identifier (for example, ACCOUNTANT, DEPT. 29) You provide this information in the contents of the distribution identifier that indicates the <i>report recipient</i> (the person to whom or 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 from the model banner pages distributed with CA-Deliver. You can modify banner pages to suit your needs. For more information, see the <i>CA-Deliver Reference Guide</i>.
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 12 characters that identifies a report for use by CA-Deliver.

Examples

- EDITREPT01
- TRJOB02-R01
- U90526-R01
- RECJOB01-R01
- U50500-R01

Tip: For consistency in the CA-Deliver database, we recommend that you establish a convention for naming report identifiers. You might use the naming convention in the conversion utility, RMOJCL, which is provided by Computer Associates. In RMOJCL, report names consist of a job name, followed by a dash, then *Rnn* (where *nn* represents a number), as shown in the last four examples in the previous list.

Non-Bundled Reports A *non-bundled report* is a CA-Deliver report that contains no report identifier in any definition of a bundle of reports. For more information about bundles of reports, see the chapter "[Creating a Bundle of Reports](#)."

Rules for Defining Report Identifiers

Follow these rules when defining report identifiers:

- The report identifier must be 1 to 12 characters.
- The characters of the identifier name can be a letter, number, period, national character (\$, #, @), percent sign (%), cent sign (¢), explanation mark (!), slash (/), underscore (_), or dash (hyphen).
- Do **not** use blanks or other special characters.

Job Names

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

Example TRJOB02

Rules for Creating Job Names

Follow these rules when creating job names:

- The job name must be 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 job name 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 8 characters that indicates the person or location where a report will be distributed.

Typically, a system administrator defines distribution identifiers in the CA-Deliver database when CA-Deliver is implemented. Occasionally, distribution points must be modified at your site.

Examples

The following table provides some examples of distribution identifiers:

Distribution Identifier	Distribution Point
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
ACCOUNTG	The entire accounting department
BLDG34IS	Building 34 on a campus 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

Tip: For consistency in the CA-Deliver database, we recommend that you establish a convention for naming distribution identifiers. You might use the same system you use to name departmental identifiers.

Rules for Defining Distribution Identifiers

Follow these rules when defining distribution identifiers:

- The DistID must be 1 to 8 characters.
- The characters of the identifier name can be a letter, number, period, national character (\$, #, @), percent sign (%), cent sign (¢), explanation mark (!), slash (/), underscore (_), or dash (hyphen).
- Do **not** use blanks or other special characters.

Using the Report Definition Attributes Panel

Specify report attributes on the Report Definition Attributes panel.

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 attributes specified in Job Control Language (JCL) are used by CA-Deliver for reports. There is generally no need to specify overrides to the attributes in report definitions. You may, 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.

```

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

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

  Desc ==>

Attributes:
  ARCH ==>          BANNER ==>          BURST ==>
  CC   ==>          CLASS  ==>          COPIES ==>
  FCB  ==>          FORM   ==>          FLASH ==> ( , )
  LATE ==>          OPTCDJ ==>          UCS   ==>
  FORMDF ==>        PAGEDF ==>          PRMODE ==>
  PRSET ==>          PRTY   ==>
  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 following table describes the attribute fields on the Report Definition Attributes panel:

Field	Description
ARCH	<p>Enter 1 to 9 sets of criteria for archiving reports</p> <p>Each set of criteria (which you define by an initialization parameter) specifies the following:</p> <ul style="list-style-type: none"> ■ The direct-to-View database and/or the archive medium (disk or tape) that CA-View will use to archive a report ■ The SYSOUT class, destination, and forms name CA-Deliver will use to create a copy of a report for transmission to CA-View <p>You can enter a blank, or a value between 0 and 9 inclusive in this field.</p> <p>Valid values are as follows:</p> <p>0 Suppress the archiving of a report</p> <p>Blank Use the default value defined by the initialization parameter ARCH</p> <p>For more information about the ARCH parameter, see the <i>CA-Deliver Reference Guide</i>.</p>
BANNER	<p>Enter the name of the model banner page to print at the beginning and end of a report</p> <p>Valid values are as follows:</p> <p>* Suppress banner page printing</p> <p>Blank Print the default model banner page defined by the initialization parameter BANNER</p> <p>For more information about the BANNER initialization parameter, see the <i>CA-Deliver Reference Guide</i>.</p>
BURST	<p>Enter whether a report will be burst into separate sheets when printed on an IBM 3800 printer</p> <p>Valid values are as follows:</p> <p>Y Burst the report</p> <p>N Do nothing with the report</p> <p>Blank Use the value specified in the JCL for the job that creates the report</p>

Field	Description
CC	<p>Enter the type of carriage control characters used in the report</p> <p>Valid values are as follows:</p> <p>M Use machine control characters</p> <p>A Use ASA control characters</p> <p>A single-character identifier</p> <p> Use the set of control characters you define</p> <p>Blank Use the carriage control specification from the DCB/ACB for the report</p>
CLASS	<p>Enter the SYSOUT class for the report</p> <p>Valid values are as follows:</p> <p>A single alphanumeric character</p> <p> Use the SYSOUT class character you define</p> <p>Blank Use the SYSOUT class specified in the JCL for the job that creates the report</p>
COPIES	<p>Enter whether to print the report on single- or multi-part paper</p> <p>Valid values are:</p> <p>Y or Blank Use the copies DD parameter that specifies the number of grouped distribution identifiers to write the report to spool</p> <p>N Assume COPIES = 1</p> <p>For more information about the copies DD parameter, see the <i>CA-Deliver Reference Guide</i>.</p>
FCB	<p>Enter the name of the forms control image used to print a report</p> <p>If you leave this field blank, the forms control image specified in the JCL for the job that creates the report is used.</p>
FORM	<p>Enter the name of the special forms on which a report is to be printed or punched</p> <p>If you leave this field blank, the forms control image specified in the JCL for the job that creates the report is used.</p> <p>Note: If OUTPUT JCL statements are not available for CA-Deliver 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 forms are used.</p>

Field	Description
FLASH	<p>Enter the name of the forms 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</p> <p>If you leave this field blank, the forms overlay name and count specified in the JCL for the job that creates the report is used.</p>
LATE	<p>Enter the time as a 24-hour clock in an <i>hh:mm</i> format when a report is to be marked late if it is not queued for printing</p> <p>Example: 09:35 represents 9:35 A.M. and 15:45 represents 3:45 P.M.</p> <p>Note: When you specify the late time, enter 00:01 (not 00:00) and 23:59 (not 24:00).</p> <p>If blank, CA-Deliver does not check if the report is late.</p>
OPTCDJ	<p>Enter whether a report contains IBM 3800 printer table reference characters</p> <p>Y The report contains IBM 3800 printer table reference characters</p> <p>N or Blank The report does not contain IBM 3800 printer table reference characters</p>
UCS	<p>Enter the name of the special character set used to print a report</p> <p>If you leave this field blank, the character set name specified in the JCL for the job that creates the report is used.</p>
FORMDF	<p>Enter the name of the form definition used to print a report on an IBM 3800 printing subsystem</p> <p>If you leave this field blank, the form definition name specified in the JCL for the job that creates the report is used.</p> <p>Note: If OUTPUT JCL statements are not available for CA-Deliver 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.</p>

Field	Description
PAGEDF	<p>Enter the name of the page definition used to print a report on an IBM 3800 printing subsystem</p> <p>If you leave this field blank, the page definition name specified in the JCL for the job that creates the report is used.</p> <p>Note: If OUTPUT JCL statements are not available for CA-Deliver 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.</p>
PRMODE	<p>Enter the process mode required to print a SYSOUT data set</p> <p>Valid values are as follows:</p> <p>LINE Sends the data set to a line mode printer</p> <p>PAGE Sends the data set to a page mode printer</p> <p>Specific 1- to 8-character mode name</p> <p>Sends the data set to a mode printer defined for your site</p>
PRSET	<p>Enter the name of the printer set up member in the CA-Deliver database used for a report</p> <p>You can use this member to enter XEROX DJDE parameters or any other information you want to precede the report data.</p> <p>If specified, the printer set up records are appended to the report immediately after the report banner page but before the first record in the report.</p> <p>If omitted, printer set up records are not appended to the report.</p> <p>Note: You use the RMODBASE utility PLOAD control statement, which is described in the <i>CA-Deliver Reference Guide</i>, to add PRSET members to the CA-Deliver database.</p>
PRTY	<p>Enter the priority for a SYSOUT data set to enter the output queue</p> <p>You can specify a decimal value between 0 (lowest priority) and 255 (highest priority).</p> <p>A data set with a higher priority prints sooner.</p>

Field	Description
CHARS	<p>Enter the names of character arrangement tables used when a report prints on an IBM 3800 printer</p> <p>You can specify 1 to 4 names in this field.</p> <p>If blank, the character arrangement table names specified in the JCL for the job that creates the report are used.</p>
MODIFY	<p>Enter the name of the copy modification module and table reference character used when a report prints on an IBM 3800 printer</p> <p>If blank, the copy modification module name and table reference character specified in the JCL for the job that creates the report are used.</p>
COPYG	<p>Enter the number of copies of each page that are grouped together when a report prints on an IBM 3800 printer</p> <p>If blank, the IBM 3800 copy groups specified in the JCL for the job that creates the report are used.</p>

Defining Basic Reports

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

The following list summarizes the steps required to define a basic report in CA-Deliver. Detailed instructions are presented in subsequent sections of this chapter. From the Primary Selection Menu panel you do the following:

- [Step 1: Define a Distribution Identifier](#)
- [Step 2: Define a Job](#)
- [Step 3: Identify the Reports for the Job](#)
- [Step 4: Specify Report Definition Attributes](#)

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

- [Step 5: Submit the Job](#)

When you submit the job, CA-Deliver 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, 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 name for this job is TRJOB01, the Stepname is EDITSTEP, the report DDname is EDITLIST, and the name (or identifier) of the report is EDITREPT01.
- Distribute three copies of the report: one to the production supervisor, who will ensure that the report is reviewed, the data is corrected, and the corrected data is fed into a subsequent run; one to the accountant; and one to yourself for verification.
- Mark the report late if it is not completed by 8:00 A.M.
- Do **not** archive the report.

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

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

DD statement	Definition
//INPUT1 DD DSN=ACCT.ACCOUNTS.TABLES, // DISP=OLD	Specifies a data set that contains the valid accounts for vendors
//INPUT2 DD DSN=ACCT.VENDOR.DATA, // DISP=OLD	Specifies the transactions to edit
//EDITLIST DD SYSOUT=E	Specifies 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 in this guide, a *distribution identifier*, or DISTID, is a unique 1- to 8-character string that indicates the *report recipient* (the individual or location where a report is to be distributed).

Tip: To issue CA-Deliver commands quickly and easily, you can use wild cards and SPF/ISPF command stacks (if you have SPF/ISPF). For more information, see [Tips for Using CA-Deliver Commands](#) in the chapter “CA-Deliver Basics.”

1. On the command line of the Primary Selection Menu panel, enter **D**, a space, then **D27SYSP4** (which is the distribution identifier you will assign to yourself).

```

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.
    
```

2. Press Enter to display the Distribution Data for ID 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 ==>

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

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

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 ==>

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. The message *ADDED* displays next to the new distribution identifier you just added.

5. Enter **RETURN** on the command line, and press Enter to display the Primary Selection Menu panel.
6. 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 -----
Command ==> Scroll ==> PAGE

Sel Distid      -- Last Changed -- User   Line 1      List
==> *           *           *           *           *
D01PRES         01/03/1994 09:17:45 N27USR  DEPT 01 - PRESIDENT
D01VPRES        01/03/1994 09:33:29 N27USR  DEPT 01 - VICE PRESIDENT
D25FILE         08/31/1994 13:19:23 HFINN   DEPT 25 - FILE ROOM
D25LIB          08/26/1994 16:46:29 HFINN   DEPT 25 - FILE ROOM
D25MGR          11/10/1993 16:16:18 HFINN   DEPT 25 - MANAGER
D25PER1         12/02/1993 16:06:18 TEST    DEPT 25 - CLERK LEVEL 1
D25PER2         08/26/1994 16:46:38 HFINN   DEPT 25 - CLERK LEVEL 2
D27FILE         12/15/1993 12:33:13 HFINN   DEPT 27 - FILE ROOM
D27MGR          12/15/1993 12:25:54 HFINN   DEPT 27 - MANAGER
D27PROD         12/15/1993 12:32:38 HFINN   DEPT 27 - PRODUCTION SUP
D27SYSP1        01/03/1994 09:46:09 N27USR  DEPT 27 - SYS PROG (BRIA
D27SYSP2        12/03/1993 13:56:47 N27USR  DEPT 27 - SYS PROG (MARY
D27SYSP3        11/10/1993 16:16:05 HFINN   DEPT 27 - SYS PROG (BILL
D27SYSP4        05/05/1994 14:50:05 GJONES  DEPT 27 - SYS PROG (GEOG
D28FILE         01/03/1994 09:44:57 N27USR  DEPT 28 - FILE ROOM
D28LIB          12/15/1993 13:55:52 N27USR  DEPT 28 - LIBRARIAN
D28MGR          12/15/1993 13:55:52 N27USR  DEPT 28 - MANAGER
D29ACCT        12/03/1993 11:56:49 N27USR  DEPT 29 - ACCOUNTANT
D29MGR          11/15/1993 14:13:48 N27USR  DEPT 29 - MANAGER

```

7. Scan the list for your new distribution identifier D27SYSP4.
Now you are ready to verify distribution data.
8. Move the cursor down the column marked SEL to your distribution identifier D27SYSP4 and enter S (for Select).

```

CA-Deliver ----- - Distribution Selection List -----
Command ==>                                         Scroll ==> PAGE

Sel Distid      -- Last Changed -- User      Line 1      List
==> *           *           *           *           *
D01PRES         01/03/1994 09:17:45 N27USR    DEPT 01 - PRESIDENT
D01VPRES        01/03/1994 09:33:29 N27USR    DEPT 01 - VICE PRESIDENT
D25FILE         08/31/1994 13:19:23 HFINN    DEPT 25 - FILE ROOM
D25LIB          08/26/1994 16:46:29 HFINN    DEPT 25 - FILE ROOM
D25MGR          11/10/1993 16:16:18 HFINN    DEPT 25 - MANAGER
D25PER1         12/02/1993 16:06:18 TEST     DEPT 25 - CLERK LEVEL 1
D25PER2         08/26/1994 16:46:38 HFINN    DEPT 25 - CLERK LEVEL 2
D27FILE         12/15/1993 12:33:13 HFINN    DEPT 27 - FILE ROOM
D27MGR          12/15/1993 12:25:54 HFINN    DEPT 27 - MANAGER
D27PROD         12/15/1993 12:32:38 HFINN    DEPT 27 - PRODUCTION SUP
D27SYSP1        01/03/1994 09:46:09 N27USR    DEPT 27 - SYS PROG (BRIA
D27SYSP2        12/03/1993 13:56:47 N27USR    DEPT 27 - SYS PROG (MARY
D27SYSP3        11/10/1993 16:16:05 HFINN    DEPT 27 - SYS PROG (BILL
S  D27SYSP4      05/05/1994 14:50:05 GJONES    DEPT 27 - SYS PROG (GEOG
D28FILE         01/03/1994 09:44:57 N27USR    DEPT 28 - FILE ROOM
D28LIB          12/15/1993 13:55:52 N27USR    DEPT 28 - LIBRARIAN
D28MGR          12/15/1993 13:55:52 N27USR    DEPT 28 - MANAGER
D29ACCT         12/03/1993 11:56:49 N27USR    DEPT 29 - ACCOUNTANT
D29MGR          11/15/1993 14:13:48 N27USR    DEPT 29 - MANAGER
    
```

9. Press Enter to display the Distribution Data for ID panel.

```

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

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

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

10. Scan the panel for accuracy.
Note: To edit information on this panel, enter new information over the old information displayed, and press Enter.
11. 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 will create the CA-Deliver reports. The name of the job to use is TRJOB01, which you specified in your first JCL for the job.

1. On the command line of the Primary Selection Menu panel, enter **J**, a space, then the job name **TRJOB01** (which you specified in the JCL for the job).

```

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.
    
```

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

```

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

Desc ==>
Prevrn ==>

Sel Stepname Procstep DDname  Report Id  Type  Prevrn

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

Note: Both PREVRUN fields shown on the Reports for Job panel work only when CA-Rerun or 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 produced by a job. Recall that 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  Job   ---> TRJOB01   Type  --->
  Step ---> EDITSTEP   Procstep --->                DD    ---> EDITLIST

  Desc  ==>

Attributes:
  ARCH  ==>                BANNER ==>                BURST  ==>
  CC    ==>                CLASS   ==>                COPIES ==>
  FCB   ==>                FORM    ==>                FLASH  ==> ( , )
  LATE  ==>                OPTCDJ  ==>                UCS    ==>
  FORMDF ==>                PAGEDF  ==>                PRMODE ==>
  PRSET  ==>                PRTY    ==>
  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 **not** 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.

Defining Reports for Output Via the CA-View External Print Interface

Set up To successfully set up a report for output via CA-View's external print interface, you must do the following:

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

Note: A *non-bundled report* is a CA-Deliver report that contains no report identifier in any definition of a bundle of reports. For more information, see the chapter "[Creating a Bundle of Reports.](#)"

- Specify **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.
- 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: CA-View's external print interface is described in the *CA-View System 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.

Any lowercase characters you entered on the panel are automatically converted to uppercase.

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.

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

```

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

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

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer Out Rview Reprt Del

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

- Enter the three destination identifiers **D27PROD**, **D29ACCT**, and **D27SYSP4** in the Distid field, and press Enter.

```

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

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

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer Out Rview Reprt Del
          D27PROD
          D29ACCT
          D27SYSP4

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

Leave the remaining fields on the subpanel blank to specify default settings as follows:

Field	Description of Default Setting
Grp	Keeps this report separate from the previous report
Copies	Prints only one copy of the report per distribution identifier
Dest	Uses the report destination specified in the JCL
Writer	Uses the name of the external writer to process the report
Out	Creates printed output for the recipient and tracks the report
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

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 CA-Deliver 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, on which you enter 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   Job    ---> TRJOB01   Type  --->
   Step  ---> EDITSTEP    Procstep --->          DD    ---> EDITLIST

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 by 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 CA-Deliver 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 CA-Deliver database. You are now ready to submit the job.

Step 5: Submit the Job

When you submit the job, CA-Deliver retrieves the report from the application program you specified in the JCL for the job (ACCEDIT in this example), adds a banner page to the front and end of each report, then prints the report for distribution.

After submitting the job, you can review the results.

Reviewing the Results

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

The following two sections explain techniques you can use to review the setup of your CA-Deliver 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 which 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 on the Distribution Selection List panel.

```

CA-Deliver ----- Distribution Selection List -----
Command ==>                                     Scroll ==> PAGE

Sel Distid      -- Last Changed -- User      Line 1      List
==> *          *          *          *          *
X  D01PRES      01/04/1993 09:17:45 N27USR    DEPT 01 - PRESIDENT
   D01VPRES     01/04/1993 09:33:29 N27USR    DEPT 01 - VICE PRESIDENT
   D10MRKT      07/14/1994 06:39:38 GJONES    DEPT 10 - MARKETING
   D27PROD      12/14/1993 12:32:38 HFINN    DEPT 27 - PRODUCTION SUP
   D27SYSP4     05/05/1994 14:50:05 GJONES    DEPT 27 - SYS PROG (GEOR
   D29ACCT      12/03/1993 11:56:49 N27USR    DEPT 29 - ACCOUNTANT
   D29AP        08/31/1993 13:31:20 HFINN    DEPT 29 - ACCOUNTS PAYAB
   D30SMG01     07/15/1994 06:59:59 GJONES    DEPT 30 - SALES MANAGER
   D30SMG02     07/15/1994 07:15:29 GJONES    DEPT 30 - SALES MANAGER
   D30SMG03     07/15/1994 07:24:19 GJONES    DEPT 30 - SALES MANAGER
    
```

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

```

CA-Deliver - Report Xref for Distid: D01PRES ----- Row 00001 of 00003
Command ==>                                         Scroll ==> PAGE
Sel Report Id      Distid
==> *              *
      U59868-R01
      U90526-R03
      U90526-R04
***** BOTTOM OF DATA *****
  
```

- To display the job name, Stepname, procstep name, and DDname that the report identifier is defined to, press the RIGHT or LEFT PF key.

```

CA-Deliver - Report Xref for Distid: D01PRES ----- Row 00001 of 00003
Command ==>                                         Scroll ==> PAGE
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 *****
  
```

Defining an UNDEF Report Identifier

An UNDEF report identifier, which you specify in the CA-Deliver database, functions as a “catch all” for report definitions. The identifier UNDEF is automatically assigned to a report in the CA-Deliver 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 application jobs. At the end of a job, when all data is assigned to standard report definitions, CA-Deliver removes the UNDEF report identifier from the Active Report List panel.

Example

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, the report is marked UNDEF.

Similarly for network input, when using the old IBM PSO JES interface, if a data set cannot be located in a job definition in the CA-Deliver database, the network input data set is treated as basic report UNDEF.

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      Job   ---->          Type  ---->
Step ---->          Procstep ---->        DD   ---->

Desc ==>

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

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

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

2. Enter any information you want on the Report Definition Attributes panel and/or the Distribution Specifications, Special Instructions, and 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 CA-Deliver database and display the Primary Selection Menu panel.

Defining Stacked Reports That Contain Exclusive Segments

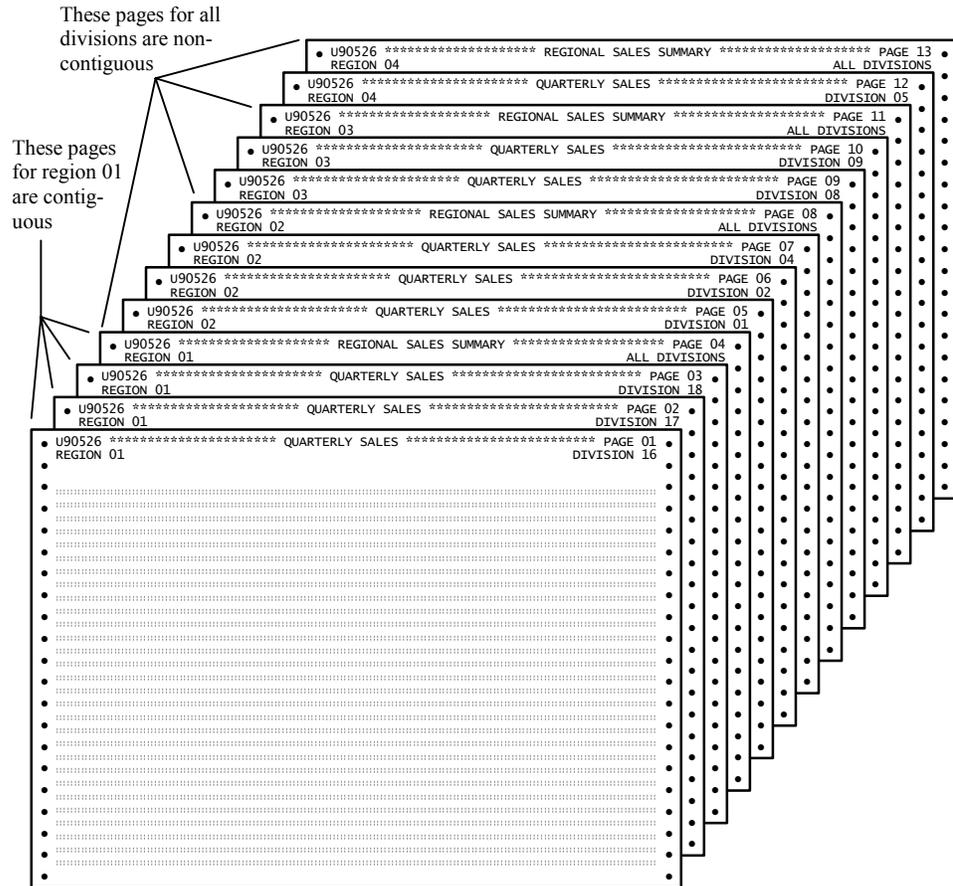
This chapter illustrates how to define stacked reports that contain exclusive segments, and includes the following:

- How to define contiguous and non-contiguous report pages
- How to define an exclusive segment and a stacked report that contains exclusive segments
- How to list a distribution identifier and define a job
- How to specify report definition attributes
- How to specify report identification text

What Are Contiguous and Non-Contiguous Report Pages?

In this guide, 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.

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

Examples

Following are examples of the 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 transactions with suppliers
- A check register that records checks written to suppliers

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 composed of the letters A–Z, digits 0–9, national characters (\$, #, @), and other keyboard characters.

Report identification text identifies the exclusive or overlapping segments that CA-Deliver should select from SYSOUT and output to a stacked report.

Following are some examples of report identification text:

- A unique, partial, or whole 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 of each segment in a data set

Note: If the CA-Deliver 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

You can enter the following attributes under Type on the Report Definition Attributes panel. These attributes are discussed later in this section.

Attribute	Description
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 a text string 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

Rules for Defining Exclusive Segments in Stacked Reports

The following 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.

- All pages that match the exclusive segment text are selected until a “no match” condition occurs.
- 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.

```

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

  ID    ---> U90526-R01   Job    ---> U90526   Type   ---> STACK
  Step  ---> SALESTEP    Procstep --->                               DD    ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
  XCL  N   EQ  1  32  FINANCIAL

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

```

For example, the information entered on the previous screen selects only the first group of contiguous matching pages that contain the text FINANCIAL at line 1, column 32, even if subsequent pages contain FINANCIAL at line 1, column 32.

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

You must specify Y only for the beginning or page segment types; **not** for related END, AND, or OR types. For example, entering the following information selects all single pages that contain the text FINANCIAL at line 1, column 32.

```

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

   ID    ---> U90526-R01   Job    ---> U90526   Type   ---> STACK
   Step  ---> SALESTEP    Procstep --->          DD    ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
   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; you can use more than one logical AND operator at a time.

For example, entering the following information on the Report Identification Text subpanel selects all pages that contain the text SUMMARY at line 1, column 44, and 02 at line 2, column 8, until a “no match” condition occurs.

```

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

   ID    ---> U90526-R01   Job    ---> U90526   Type   ---> STACK
   Step  ---> SALESTEP    Procstep --->          DD    ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
   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 must be true in order for the page to be selected; you can use more than one logical OR operator at a time. For example, entering the information shown on the following 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   Type   ---> STACK
   Step  ---> SALESTEP    Procstep --->                DD     ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
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   Type   ---> STACK
   Step  ---> SALESTEP    Procstep --->                DD     ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
XCL  N   EQ  2   8    01

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

- You can use the logical AND and logical OR operators together. For example, entering the following information on the Report Identification Text subpanel specifies that CA-Deliver is to select either a single segment that begins with a page that contains the text string SUMMARY and 03 or 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   Type  ---> STACK
   Step ---> SALESTEP   Procstep --->           DD    ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col Text
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 *****
```

As the page that contains SUMMARY and 01 comes first in the data set, the data is selected, starting from the page that contains the text strings SUMMARY and 01, and ending at either the end of the SYSOUT data set or when a “no match” condition occurs.

Defining a Stacked Report Containing Exclusive Segments

Important! Use a test CA-Deliver database to follow this procedure 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 displayed before you begin this section.

The following list summarizes the steps you follow 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: Specify Identification Text for Report 1](#)

- [Step 4: Specify Report Definition Attributes for Report 2](#)

- [Step 5: Specify Identification Text for Report 2](#)

- [Step 6: Specify Report Definition Attributes for Report 3](#)

- [Step 7: Specify Identification Text for Report 3](#)

This text tells CA-Deliver how to split the output to create several reports.

- [Step 8: Close Panels and Finish Your Work](#) ■ [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 beginning and end of each report, then prints each report for distribution.

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 know 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 the first chapter
- A vendor report that records transactions with suppliers
- A check register that records the checks written to suppliers

Your manager provides the following information:

- The name of the job is TRJOB02, the Stepname UPDTSTEP, the report DDname REPTS, and the identifiers of the reports 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

Following is a description of the major elements of your second JCL.

DD Statement	Definition
//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	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), and IMM (Invoke Medium Map) X'5A' records as page break records.

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

CA-Deliver 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. Enter **D D29*** on the command line of the Primary Selection Menu panel, and press Enter to display the Distribution Selection List panel, which contains a complete list of distribution identifiers for department 29.

```

CA-Deliver ----- Distribution Selection List -----
Command ==>                                     Scroll ==> PAGE

Sel Distid      -- Last Changed --      User      Line 1      List
==> D29*          *                *          *          *
      D29ACCT      12/03/1993 11:56:49    N27USR     DEPT 29 - ACCOUNTANT
      D29MGR       11/15/1993 14:13:48    N27USR     DEPT 29 - MANAGER
      D29AP        08/31/1993 13:31:20    HFINN      DEPT 29 - ACCOUNTS PAYAB
***** 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 the topic [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, do the following:
 - a. Enter **UPDTSTEP** under Stepname.
 - b. Enter **REPTS** under DDname.
 - c. Enter **TRJOB02-R01** under Report Id.
 - d. Enter **S** under Type.

```

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

  Desc  ==> UPDATE ACCOUNTS PAYABLE
  Prevrn ==>

Sel Stepname Procstep DDname  Report Id  Type  Prevrn
   UPDTSTEP          REPTS    TRJOB02-R01  S
                                     TRJOB02-R02  S
                                     TRJOB02-R03  S

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

As indicated by the ID field, the information you enter applies only to report TRJOB02-R01. You must define attributes for the remaining two reports separately.

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  Type  ---> STACK
  Step  ---> UPDTSTEP    Procstep --->          DD    ---> REPTS

  Desc  ==>

Attributes:
  ARCH ==>          BANNER ==>          BURST ==>
  CC   ==>          CLASS  ==>          COPIES ==>
  FCB  ==>          FORM   ==>          FLASH ==> ( , )
  LATE ==>          OPTCDJ ==>          UCS   ==>
  FORMDF ==>        PAGEDF ==>          PRMODE ==>
  PRSET ==>        PRTY   ==>
  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 **EDITED TRANSACTIONS AP** 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 10:00 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   Type  ---> STACK
Step ---> UPDTSTEP    Procstep --->          DD    ---> REPTS

Desc ==> EDITED TRANSACTIONS AP

Attributes:
ARCH ==> 1           BANNER ==>          BURST ==>
CC   ==>            CLASS ==>          COPIES ==>
FCB  ==>            FORM  ==>          FLASH ==> ( , )
LATE ==> 10:00      OPTCDJ ==>         UCS   ==>
FORMDF ==>          PAGEDF ==>         PRMODE ==>
PRSET ==>          PRTY  ==>
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. For example, the default banner page for your site is used because you leave the BANNER field blank.

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

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

```

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

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

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer Out Rview Reprt Del

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

- Enter the distribution identifier **D29AP** for the Accounts Payable group in the DISTID field on the Report Definition Attributes panel.

```

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

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

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer Out Rview Reprt Del
          D29AP

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

Leave the remaining fields on the Report Definition Attributes panel blank to specify default settings.

- 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 CA-Deliver database.

Note: If a distribution identifier you enter on the Distribution Specifications panel is not already defined, the Distribution Data for ID panel will display so you can enter data for the undefined identifier. (The Distribution Data for ID panel is described in the chapter “[Defining Basic Reports](#).”)

- 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   Type  ---> STACK
   Step ---> UPDTSTEP    Procstep --->          DD    ---> REPTS

Special Instructions:
Sel Instruction

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

- 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   Type  ---> STACK
   Step ---> UPDTSTEP    Procstep --->          DD    ---> REPTS

Special Instructions:
Sel Instruction
'FINAL EDIT - CORRECTIONS WILL BE INPUT ON NEXT CYCLE'

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

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

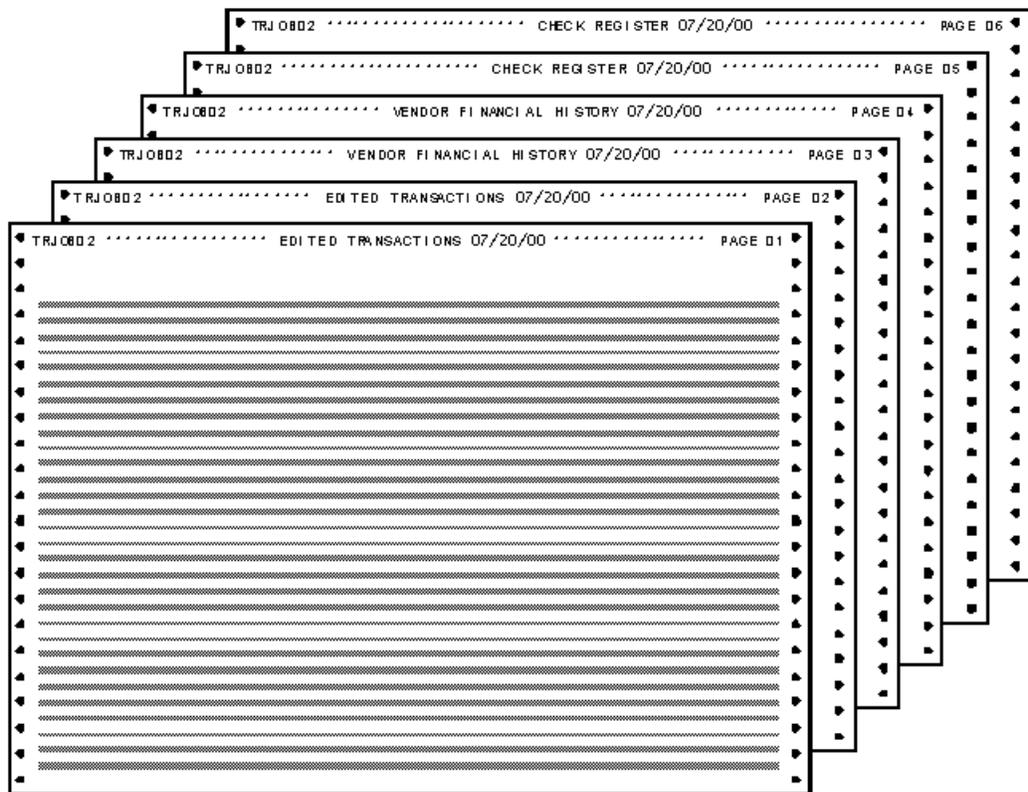
- Enter **END** on the command line, and press Enter to display the Report Definition Attributes panel.

You are now ready to define report identification text for report 1.

Step 3: Specify Identification Text for Report 1

When a job is processed by CA-Deliver, each page is evaluated against the report identification text to determine whether the page is the beginning of a segment, the end of a segment, or part of a segment and to determine 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 composed of exclusive segments. In this chapter, for example, the edited transactions from TRJOB02, the vendor financial history, and the check register all form unique and exclusive segments, as shown in the following 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 will split into segments.
2. Examine the printout carefully to determine the page at which each segment starts and ends.
3. Look for some 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 defining exclusive segments, you only need to identify the beginning of a segment, since the end of the previous segment is automatically delimited by the beginning of the next one.

In this example, you discover that the first line of the first page of each segment contains a unique title, which will serve as an excellent report identification text string.

4. Pick a unique word or phrase in each title to use as report identification text.
You pick 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    Type   ---> STACK
   Step  ---> UPDTSTEP    Procstep --->                DD     ---> REPTS

Report Identification Text:
Sel Type Reus Op Line Col  Text

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

6. Do the following on the Report Identification Text subpanel:
 - a. Enter **X** under Type.
 - b. Leave the Reus column blank to use the default (NO), since 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.

Note: You can set Col to asterisk (*) to search the entire line, but searching an entire line slows the search process; only an equal type test is used when searching the entire line – the LT and GT operators are treated as the operator NE.

- f. Enter **EDITED** under Text.

```

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

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

Report Identification Text:
Sel Type Reus Op Line Col  Text
   X      EQ  1  27  EDITED

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

7. Press Enter.

Any lowercase characters you entered on the panel are automatically converted to uppercase; N is displayed under Reus, which you left blank to specify the default value; and 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 CA-Deliver database, and the message TRJOB02-R01 SAVED is displayed in the short message area.

Step 4: Specify Report Definition Attributes for Report 2

1. On the Report Definition Attributes panel, do the following:
 - a. Enter **EDITED TRANSACTIONS AP** in the Desc field.
 - 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.

```

CA-Deliver ---- Report Definition Attributes ----- TRJOB02-R01 saved
Command ==>

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

Desc ==> EDITED TRANSACTIONS AP

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

Any lowercase characters you entered on the panel are automatically converted to uppercase.

Values specified in the JCL for the job and as initialization parameters are used because you leave the remaining fields on the panel blank. The default banner page at your installation is used because you leave the BANNER field blank.

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

```

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

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

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer  Out Rview Reprt Del

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

3. Enter **D** on the command line, and press Enter to display the Distribution Specifications subpanel.
4. Enter **COPY TRJOB02-R01** on the command line, and press Enter.

```

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

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

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer  Out Rview Reprt Del

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

Distribution specification information (including default parameter information) is copied from report TRJOB02-R01 to report TRJOB02-R02 and displayed as shown in the following illustration.

```

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

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

Distribution Specifications:
Sel Grp  Distid  Copies  Dest              Writer  Out  Rview  Reprt  Del
      D29AP    1
***** BOTTOM OF DATA *****
    
```

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

5. Enter **END** on the command line, and press Enter to display the Report Definition Attributes panel. Note that the distribution identifiers you specified are entered into the CA-Deliver database.
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-R02  Job    ---> TRJOB02   Type   ---> STACK
   Step  --->              Procstep --->          DD    --->

Special Instructions:
Sel Instruction

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

7. Enter the special instructions **VENDOR FINANCIAL HISTORY FOR ACCOUNTS PAYABLE** below the Instruction field, and press Enter.

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

```

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

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

Special Instructions:
Sel Instruction
'VENDOR FINANCIAL HISTORY FOR ACCOUNTS PAYABLE'

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

8. 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. Do the following on the Report Definition Attributes panel:
 - a. Enter **X** under Type.
 - b. Leave the Reus field blank to specify the default (NO), since 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 at the 24th column of line 1 of report 2.

Note: You can set Col to asterisk (*) to search the entire line, but searching an entire line slows the search process; only an equal test is used when searching the entire line – the LT and GT operators are treated as the operator NE.

- f. Enter **VENDOR** under Text.

```

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

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

Report Identification Text:
Sel Type Reus Op Line Col  Text
  X      EQ  1  24  VENDOR

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

3. Press Enter.
Any lowercase characters you entered on the panel are automatically converted to uppercase.
N is displayed under Reus, which you left blank to specify the default value; the text VENDOR under Text 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 CA-Deliver database, and the message TRJOB02-R02 SAVED is displayed in the short message area.

Step 6: Specify Report Definition Attributes for Report 3

1. Do the following 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.

```

CA-Deliver ----- Report Definition Attributes ----- TRJOB02-R02 saved
Command ==>

ID   ---> TRJOB02-R03  Job       ---> TRJOB02   Type   ---> STACK
Step --->              Procstep --->              DD     --->

Desc ==> VENDORS CHECK REGISTER

Attributes:
ARCH ==> 1           BANNER ==>           BURST ==>
CC   ==>           CLASS ==>           COPIES ==>
FCB  ==>           FORM  ==>           FLASH ==> ( , )
LATE ==> 10:00     OPTCDJ ==>          UCS   ==>
FORMDF ==>         PAGEDF ==>         PRMODE ==>
PRSET ==>         PRTY  ==>         MODIFY ==> ( , )
CHARS ==> ( , , , , , , , , )
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.
Any lowercase characters you entered on the panel are automatically converted to uppercase.

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

```

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

   ID    ---> TRJOB02-R03  Job    ---> TRJOB02   Type   ---> STACK
   Step  --->              Procstep --->         DD     --->

Distribution Specifications:
Sel Grp  Distid  Copies  Dest              Writer  Out Rview Reprt Del

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

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

Distribution specification information (including default parameter information) is copied from report TRJOB02-R02 to report TRJOB02-R03 and displayed as shown in the following illustration.

```

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

   ID    ---> TRJOB02-R03  Job    ---> TRJOB02   Type   ---> STACK
   Step  --->              Procstep --->         DD     --->

Distribution Specifications:
Sel Grp  Distid  Copies  Dest              Writer  Out Rview Reprt Del
D29AP    1              Dest              Y      N      Y      Y
***** BOTTOM OF DATA *****
    
```

- 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 CA-Deliver database.

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-R03  Job      ---> TRJOB02   Type   ---> STACK
   Step  --->              Procstep --->         DD     --->

Special Instructions:
Sel Instruction

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

7. Do the following 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   Type   ---> STACK
   Step  --->              Procstep --->         DD     --->

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   Type   ---> STACK
   Step --->              Procstep --->         DD     --->

Special Instructions:
Sel Instruction
'SENSITIVE DATA - ASSURE SECURITY AT ALL TIMES'

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

8. 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. Enter **T** on the command line of the Report Definition Attributes panel, and press Enter to display the Report Identification Text subpanel.
2. Do the following on the Report Identification Text subpanel:
 - a. Enter **X** under Type.
 - b. Leave the Reus field blank to specify the default (NO), since 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 at the 28th column of line 1 of the data set.

Note: You can set Col to asterisk (*) to search the entire line, but searching an entire line slows the search process; only an equal type test is used when searching the entire line – the LT and GT operators are treated as the operator NE.

f. Enter **CHECK** under Text.

```

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

   ID   ---> TRJOB02-R03  Job   ---> TRJOB02   Type  ---> STACK
   Step ---> UPDTSTEP    Procstep --->          DD    ---> REPTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
  X      EQ  1  28  CHECK

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

3. Press Enter.

Any lowercase characters you entered on the panel are automatically converted to uppercase.

The text CHECK under Text is enclosed in single quotation marks.

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 3 is entered into the CA-Deliver database, and the message TRJOB02-R03 SAVED is displayed in the short message area.

Step 8: Close Panels and Finish Your Work

1. Enter **END** on the command line of the Report Definition Attributes panel, and press Enter.

The report you defined is added to the CA-Deliver database and the Reports for Job panel is displayed for the job.

```

CA-Deliver ----- Reports for Job: TRJOB02 ----- TRJOB02-R03 saved
Command ==>                                         Scroll ==> PAGE

Desc  ==> UPDATE ACCOUNTS PAYABLE
Prevrn ==>

Sel Stepname Procstep DDname  Report Id  Type  Prevrn
   UPDTSTEP          REPTS    TRJOB02-R01  STACK      *ADDED*
                                TRJOB02-R02  STACK      *ADDED*
                                TRJOB02-R03  STACK      *ADDED*

***** 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 CA-Deliver 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, then prints each report for distribution.

Defining Stacked Reports That Contain Overlapping Segments

This chapter explains the following:

- How to define an overlapping segment and a stacked report that contains overlapping segments
- How to define report identification text for a stacked report that contains overlapping segments

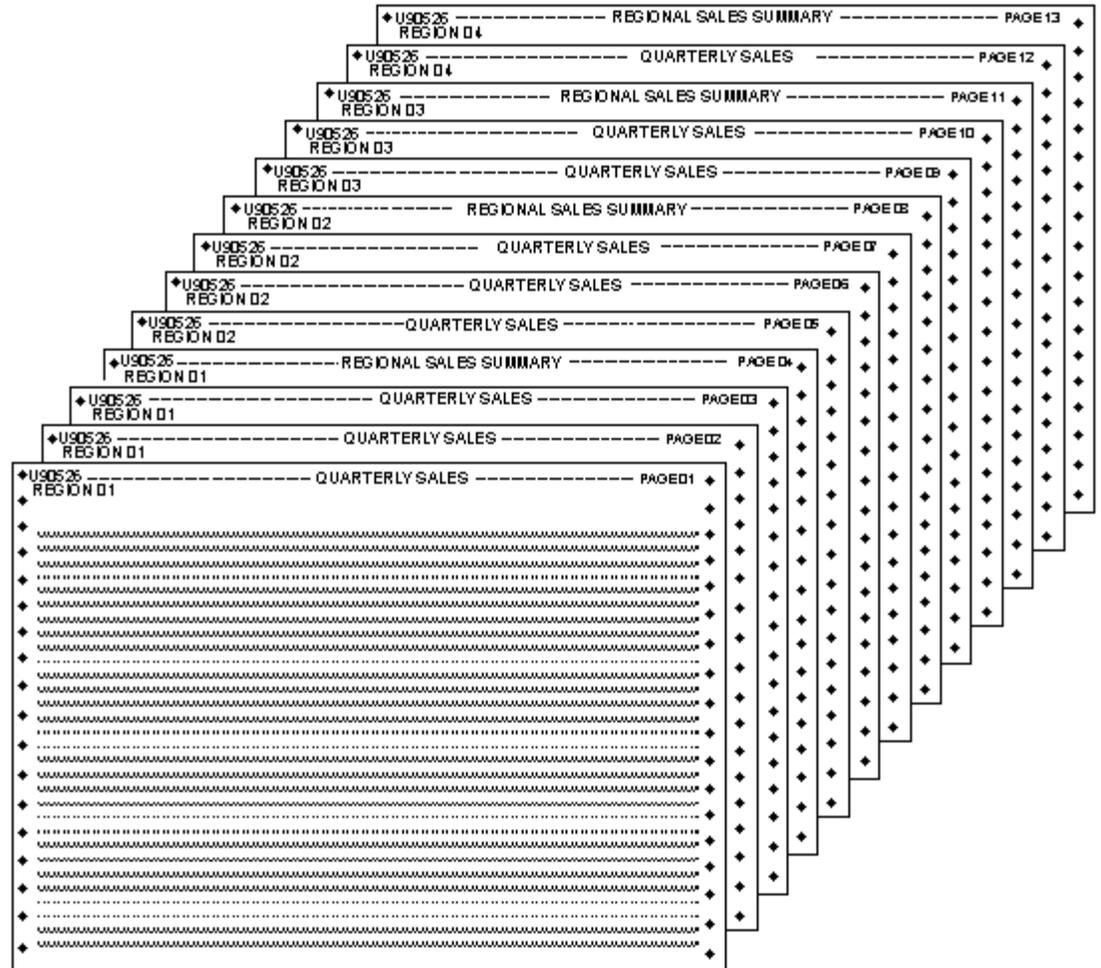
What Is an Overlapping Segment in a Report?

An *overlapping segment* is one or more pages of data, extracted from a single SYSOUT data set and placed in a report, that may be wholly or partially duplicated in other reports.

Example of a Report That Contains Overlapping Segments

The following illustration shows the original report you will 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. Compare the titles in this report to the titles generated in the stacked reports that contain overlapping segments shown in the next illustration.

What Is an Overlapping Segment in a Report?



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 may be wholly 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 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.

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.

The diagram illustrates three overlapping report segments, each represented by a rectangular box containing text. The segments are labeled as follows:

- Report U90526-R01:** The top-most segment, containing text such as "AMALGAMATED AMERICAN MANUFACTURING", "REGIONAL SALES SUMMARY", and "QUARTERLY SALES".
- Report U90526-R02:** The middle segment, overlapping the bottom of R01. It contains similar text but with different report IDs and dates.
- Report U90526-R03:** The bottom-most segment, overlapping the bottom of R02. It contains text including "AMALGAMATED AMERICAN MANUFACTURING", "REGIONAL SALES SUMMARY", and "QUARTERLY SALES".

The text within the reports includes various headers, titles, and data fields, such as "REGION 04", "REGION 02", "REGION 01", "REGION 03", "REGION 05", "REGION 06", "REGION 07", "REGION 08", "REGION 09", "REGION 10", "REGION 11", "REGION 12", "REGION 13", "REGION 14", "REGION 15", "REGION 16", "REGION 17", "REGION 18", "REGION 19", "REGION 20", "REGION 21", "REGION 22", "REGION 23", "REGION 24", "REGION 25", "REGION 26", "REGION 27", "REGION 28", "REGION 29", "REGION 30", "REGION 31", "REGION 32", "REGION 33", "REGION 34", "REGION 35", "REGION 36", "REGION 37", "REGION 38", "REGION 39", "REGION 40", "REGION 41", "REGION 42", "REGION 43", "REGION 44", "REGION 45", "REGION 46", "REGION 47", "REGION 48", "REGION 49", "REGION 50", "REGION 51", "REGION 52", "REGION 53", "REGION 54", "REGION 55", "REGION 56", "REGION 57", "REGION 58", "REGION 59", "REGION 60", "REGION 61", "REGION 62", "REGION 63", "REGION 64", "REGION 65", "REGION 66", "REGION 67", "REGION 68", "REGION 69", "REGION 70", "REGION 71", "REGION 72", "REGION 73", "REGION 74", "REGION 75", "REGION 76", "REGION 77", "REGION 78", "REGION 79", "REGION 80", "REGION 81", "REGION 82", "REGION 83", "REGION 84", "REGION 85", "REGION 86", "REGION 87", "REGION 88", "REGION 89", "REGION 90", "REGION 91", "REGION 92", "REGION 93", "REGION 94", "REGION 95", "REGION 96", "REGION 97", "REGION 98", "REGION 99", "REGION 100".

Defining Overlapping Segments for Stacked Reports

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

This section discusses report definition attribute types you can use and the rules you must follow when defining overlapping segments in stacked reports.

Report Definition Attributes for Segments

You can enter the following attributes under Type on the Report Definition Attributes panel.

Attribute	Description
X, XCL	Selects the beginning 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 of an overlapping segment
E, END	Selects the end of an overlapping segment
A, AND	Specifies a text string 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

These attributes are discussed later in this section.

Rules for Defining Overlapping Segments for Stacked Reports

Here are some rules to keep in mind when defining 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 an 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.

For example, to select the data for region 01 on pages 01 to 04 of the SYSOUT data set represented by the report in the first illustration in this chapter, enter the information shown in the following illustration.

```

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

  ID    ---> U90526-R01  Job    ---> U90526    Type   ---> STACK
  Step  ---> SALESTEP   Procstep --->                      DD    ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
  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).

For example, to select the data for regions 01 and 02 on pages 01 to 08 of the SYSOUT data set represented by the original report, enter the information shown in the following illustration.

```

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

  ID    ---> U90526-R01  Job    ---> U90526    Type   ---> STACK
  Step  ---> SALESTEP   Procstep --->                      DD    ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
  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.

For example, to select the data for region 03 to the end of the SYSOUT data set (pages 09 through 13) represented by the original report, enter the information as shown in the following illustration.

```

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

   ID    ---> U90526-R01   Job    ---> U90526   Type   ---> STACK
   Step  ---> SALESTEP   Procstep --->

Report Identification Text:
Sel Type Reus Op Line Col  Text
   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.

For example, entering the following information selects 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   Type   ---> STACK
   Step  ---> SALESTEP   Procstep --->

Report Identification Text:
Sel Type Reus Op Line Col  Text
   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.

For example, entering the following information selects 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   Type   ---> STACK
   Step  ---> SALESTEP    Procstep --->                DD     ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
   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).

For example, entering the following information on the Report Identification Text subpanel selects 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   Type   ---> STACK
   Step  ---> SALESTEP    Procstep --->                DD     ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
   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 in order for the page to be selected. (You can use more than one logical OR operator at a time.)

For example, entering the information shown in the following two illustrations 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   Type   ---> STACK
   Step  ---> SALESTEP   Procstep --->          DD     ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  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   Type   ---> STACK
   Step  ---> SALESTEP   Procstep --->          DD     ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
   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.

For example, entering the information shown in the following illustration on the Report Identification Text subpanel specifies that CA-Deliver will select either a single segment that begins with a page that contains the text string SUMMARY and 03 or 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   Type   ---> STACK
   Step ---> SALESTEP   Procstep --->           DD     ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
  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 *****
    
```

Because the page that contains SUMMARY and 01 comes first in the data set, 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 CA-Deliver database to follow this procedure so 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 displayed before you begin this section.

You must define distribution identifiers for the three sales managers, the vice president, and the president as shown in the Classification Table section before performing the steps in this section. (Defining distribution identifiers is introduced in the chapter “[Defining Basic Reports.](#)”)

The following 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 in CA-Deliver.

- [Step 2: Specify Report Definition Attributes for Report 1](#)

Specify the report definition attributes that identify the recipients of the report and specify special instructions that will be listed on the banner pages of the report.

- [Step 3: Specify Identification Text for Report 1](#)

Specify report identification text for the overlapping segments that tells CA-Deliver how to split the output to create several reports.

You repeat this step for each stacked report in this chapter.

- [Step 4: Specify Report Definition Attributes for Report 2](#)

- [Step 5: Specify Identification Text for Report 2](#)

- [Step 6: Specify Report Definition Attributes for Report 3](#)

- [Step 7: Specify Identification Text for Report 3](#)

- [Step 8: Specify Report Definition Attributes for Report 4](#)

- [Step 9: Specify Identification Text for Report 4](#)

- [Step 10: Close Panels and Finish Your Work](#)

- [Step 11: Submit the Report](#)

When you submit the job, CA-Deliver gets 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, then prints each report for distribution.

You repeat these steps for each stacked report in this chapter.

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. Your manager asks you to write the JCL for a job that produces three sales reports for four regions of Amalgamated American Manufacturing's total sales area. These reports will 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 the report for Molly Bloom, the Vice President of Sales, for online viewing only.
- The name of this job is U90526, the Stepname SALESTEP, the report DDname REPORTS, and the identifiers of the reports U90526-R01, U90526-R02, U90526-R03, and U90526-R04.
- 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 the following table:

Job Name	Report Identifier	Contents of Report	Distribute Output To	DISTID
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
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, President, Mary Shelley	D01VPRES D01PRES

Example of Your Third JCL

Use your text editor to prepare a data set that contains the JCL for the job, which looks something like this:

```
//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

Following is a description of the major elements of your third JCL:

DD statement	Definition
//FILE1 DD DSN=SYS4.NEWFILE, DISP=OLD	A data set that contains the master file that will be updated and sorted.
//REPORTS DD SYSOUT=E	A data set that contains the report SYSOUT that will 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.

```

CA-Deliver ----- Reports for Job: U90526 ----- Row 00001 of 00010
Command ==>                                         Scroll ==> PAGE

Desc ==> QUARTERLY SALES
Prevrn ==>

Sel Stepname Procstep DDname  Report Id   Type   Prevrn
  SALESTEP          REPORTS  U90526-R01  S
                   U90526-R02  S
                   U90526-R03  S
                   U90526-R04  S

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

As indicated by the ID field on this panel, the information you enter applies only to report U90526-R01. You must define attributes for the remaining three reports separately.

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   Type  ---> STACK
Step  ---> SALESTEP   Procstep --->          DD    ---> REPORTS

Desc ==>

Attributes:
ARCH ==>          BANNER ==>          BURST ==>
CC    ==>          CLASS  ==>          COPIES ==>
FCB   ==>          FORM   ==>          FLASH ==> ( , )
LATE  ==>          OPTCDJ ==>          UCS   ==>
FORMDF ==>         PAGEDF ==>          PRMODE ==>
PRSET ==>         PRTY   ==>
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 will 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   Type  ---> STACK
Step ---> SALESTEP    Procstep --->          DD    ---> REPORTS

Desc ==> REGION 01 SALES

Attributes:
ARCH ==> 1           BANNER ==>          BURST ==>
CC   ==>            CLASS  ==>          COPIES ==>
FCB  ==>            FORM   ==>          FLASH ==> ( , )
LATE ==> 22:00      OPTCDJ ==>         UCS   ==>
FORMDF ==>          PAGEDF ==>         PRMODE ==>
PRSET ==>           PRTY   ==>
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: Values 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 at your site 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 ----- Row 00001 of 00010
Command ==>                                           Scroll ==> PAGE

  ID    ---> U90526-R01  Job    ---> U90526    Type  ---> STACK
  Step  ---> SALESTEP   Procstep --->                      DD    ---> REPORTS

Distribution Specifications:
Sel Grp Distid Copies Dest          Writer Out Rview Reprt Del

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

6. Enter the distribution identifier for Michael Finn, the Sales Manager for region 1 in the Distid field.

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

  ID    ---> U90526-R01  Job    ---> U90526    Type  ---> STACK
  Step  ---> SALESTEP   Procstep --->                      DD    ---> REPORTS

Distribution Specifications:
Sel Grp Distid Copies Dest          Writer Out Rview Reprt Del
      D30SMG01

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

Leave the remaining fields on the Distribution Specifications subpanel 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 will skip this step and immediately go to the next panel.

7. Enter **I** on the command line, and press Enter.
8. Enter the special instructions **REGION 01 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY** below the Instruction field, and press Enter.

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

Any lowercase characters you enter on this panel are automatically converted to uppercase.

```

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

   ID    ---> U90526-R01   Job    ---> U90526   Type   ---> STACK
   Step  ---> SALESTEP   Procstep --->          DD    ---> REPORTS

Special Instructions:
Sel Instruction
'REGION 01 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY'

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

As with the Step 4, you will skip entering END and pressing Enter and immediately go to the next 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    ---> U90526-R01   Job    ---> U90526   Type   ---> STACK
   Step  ---> SALESTEP   Procstep --->          DD    ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text

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

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 will split into segments.
2. Carefully examine the printout to determine how you want to split up 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 that you can use to identify the beginning and end of segments.

You determine that the region numbers on line two of each heading and the word “Summary” on the first line of each last page will serve as excellent report identification text strings.

- Region numbers will be useful for selecting pages that contain quarterly sales data.
 - “Summary” will be useful for selecting sales data summary pages.
4. Do the following 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 Line because the text string 01 starts at line 2 of 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   Type   ---> STACK
   Step  ---> SALESTEP    Procstep --->          DD      ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col  Text
   P    N   EQ  2   8    01

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

5. Press Enter to refresh the Report Definition Attributes panel.
6. Do the following on the second line of the Report Definition Attributes panel:
 - a. Enter **P** under Type.
 - b. Enter **Y** (YES) under Reus because 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   Type   ---> STACK
   Step  ---> SALESTEP    Procstep --->                DD      ---> REPORTS

Report Identification Text:
Sel Type Reus Op Line Col Text
  PAG  N   EQ  2   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 CA-Deliver database.

You are now ready to specify report definition attributes for report 2.

Example of Report 1 Output

When output by CA-Deliver, report 1 looks like this:

```
..... END ..... END
..... AMALGAMATED AMERICAN MANUFACTURING ..... END
U90526 REGIONAL SALES SUMMARY PAGE 13
REGION 04 ALL DIVISIONS
U90526 REGIONAL SALES SUMMARY PAGE 11
REGION 03 ALL DIVISIONS
U90526 REGIONAL SALES SUMMARY PAGE 08
REGION 02 ALL DIVISIONS
U90526 REGIONAL SALES SUMMARY PAGE 04
REGION 01 ALL DIVISIONS
U90526 QUARTERLY SALES PAGE 03
REGION 01 DIVISION 18
U90526 QUARTERLY SALES PAGE 02
REGION 01 DIVISION 17
U90526 QUARTERLY SALES PAGE 01
REGION 01 DIVISION 16
START START
START AMALGAMATED AMERICAN MANUFACTURING START
START TEMPLE STREET FACILITY - LOS ANGELES, CA START
START START
U U 9999 0000 555555 2222 66666 RRRRR 0000 1
U U 9 9 0 0 5 2 2 6 R R 0 0 11
U U 99999 0 0 55555 2 2 66666 ----- RRRRR 0 0 11
U U 9 0 0 5 2 6 6 R R 0 0 1
U U 9 0 0 5 2 6 6 R R 0 0 1
UUUU 9 0000 55555 222222 6666 R R 0000 111111
-----
REPORT ID: U90526-R01 DATE: 07/20/00
JOBNAME: U90526 TIME: 10:45:42
JOBID: JOB 8407 CLASS: E
-----
SEND REPORTS TO:
MR. MICHAEL FINN
DEPT. 30
-----
SPECIAL INSTRUCTIONS
REGION 1 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY
-----
START START
```

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 ----- U90526-R01 saved
Command ==> COPY U90526-R01 ALL

  ID   ----> U90526-R02   Job   ----> U90526   Type  ----> STACK
  Step ---->              Procstep ---->          DD   ---->

  Desc ==>

Attributes:
  ARCH ==>              BANNER ==>              BURST ==>
  CC   ==>              CLASS  ==>              COPIES ==>
  FCB  ==>              FORM   ==>              FLASH ==> ( , )
  LATE ==>              OPTCDJ ==>              UCS   ==>
  FORMDF ==>           PAGEDF ==>              PRMODE ==>
  PRSET ==>           PRTY   ==>
  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 U90526-R01 to report U90526-R02.

2. Do the following on the Report Definition Attributes panel:
 - a. Replace the text REGION 01 SALES with **REGION 03 SALES** in the Desc field.
 - b. Enter **1** in the ARCH field.
 - c. Enter **22:00** in the LATE field.

```

CA-Deliver ----- Report Definition Attributes ----- Report id copied
Command ==>

  ID   ----> U90526-R02   Job     ----> U90526   Type   ----> STACK
  Step ---->              Procstep ---->              DD     ---->

  Desc ==> REGION 03 SALES

Attributes:
ARCH ==> 1                BANNER ==>              BURST ==>
CC   ==>                  CLASS  ==>              COPIES ==>
FCB  ==>                  FORM   ==>              FLASH ==> ( , )
LATE ==> 22:00            OPTCDJ ==>              UCS   ==>
FORMDF ==>                PAGEDF ==>              PRMODE ==>
PRSET ==>                 PRTY   ==>              MODIFY ==> ( , )
CHARS ==> ( , , , , , , ) 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 ----- Row 00001 of 00001
Command ==>                               Scroll ==> PAGE

  ID   ----> U90526-R02   Job     ----> U90526   Type   ----> STACK
  Step ---->              Procstep ---->              DD     ---->

  Distribution Specifications:
Sel Grp Distid Copies Dest                Writer Out Rview Reprt Del
      D30SMG01 1                                Y   N   Y   Y
***** BOTTOM OF DATA *****
    
```

5. Since report 2 is going to the sales manager for region 3, Richard Smith, replace the last 1 in the distribution identifier D30SMG01 with 3.

```

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

  ID   ----> U90526-R02   Job     ----> U90526   Type   ----> STACK
  Step ---->              Procstep ---->              DD     ---->

  Distribution Specifications:
Sel Grp Distid Copies Dest                Writer Out Rview Reprt Del
      D30SMG03 1                                Y   N   Y   Y
***** BOTTOM OF DATA *****
    
```

- 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   Type   ---> STACK
   Step  --->              Procstep --->         DD    --->

Special Instructions:
Sel Instruction
'REGION 01 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY'
***** BOTTOM OF DATA *****
    
```

- Since report 2 is going to the sales manager for region 3, Richard Smith, 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   Type   ---> STACK
   Step  --->              Procstep --->         DD    --->

Special Instructions:
Sel Instruction
'REGION 03 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY'
***** BOTTOM OF DATA *****
    
```

- 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   Type   ---> STACK
   Step  --->              Procstep --->         DD    --->

Report Identification Text:
Sel Type Reus Op Line Col Text
   PAG N  EQ  2   8   '01'
   PAG Y  EQ  1  44   'SUMMARY'
***** BOTTOM OF DATA *****
    
```


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 ----- U90526-R02 saved
Command ==> COPY U90526-R02 ALL

  ID   ----> U90526-R03   Job   ----> U90526   Type  ----> STACK
  Step ---->              Procstep ---->          DD   ---->

  Desc ==>

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

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   Type  ----> STACK
  Step ---->              Procstep ---->          DD   ---->

  Desc ==> REGION 02 & 04 SALES

Attributes:
  ARCH ==> 1              BANNER ==>              BURST ==>
  CC   ==>              CLASS  ==>              COPIES ==>
  FCB  ==>              FORM   ==>              FLASH ==> ( , )
  LATE ==> 22:00         OPTCDJ ==>              UCS   ==>
  FORMDF ==>           PAGEDF ==>              PRMODE ==>
  PRSET ==>           PRTY   ==>
  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.

- Since report 2 is going to the sales manager for regions 2 and 4, Steve Kelley, replace the last 3 in the distribution identifier D30SMG03 with 2.

```

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

  ID    ---> U90526-R03  Job    ---> U90526    Type   ---> STACK
  Step  --->              Procstep --->          DD     --->

  Distribution Specifications:
  Sel Grp Distid Copies Dest          Writer  Out Rview Reprt Del
        D30SMG02 1                               Y    N    Y    Y
***** BOTTOM OF DATA *****
    
```

- Enter **I** on the command line, and press Enter to display the Special Instructions subpanel.
- Since report 3 is going to the sales manager for regions 2 and 4, Steve Kelley, 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    Type   ---> STACK
  Step  --->              Procstep --->          DD     --->

  Special Instructions:
  Sel Instruction
  'REGIONS 02 & 04 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY'
***** BOTTOM OF DATA *****
    
```

- 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    Type   ---> STACK
  Step  --->              Procstep --->          DD     --->

  Report Identification Text:
  Sel Type Reus Op Line Col  Text
        PAG N  EQ 2  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 to copy the first line once and insert it between the first and second lines.

```

CA-Deliver ----- Report Definition Attributes ----- Row 00001 of 00002
Command ==>                                           Scroll ==> PAGE

   ID    ---> U90526-R03   Job    ---> U90526   Type   ---> STACK
   Step  --->                Procstep --->                DD    --->

Report Identification Text:
Sel Type Reus Op Line Col Text
R   PAG  N   EQ  2   8   '03'
   PAG  Y   EQ  1  44   'SUMMARY'
***** BOTTOM OF DATA *****
    
```

Three lines are now displayed.

2. Do the following on line 1:
 - a. Change N to **Y** under Reus.
 - b. Change 03 to **02** under Text.
3. Do the following 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   Type   ---> STACK
   Step  --->                Procstep --->                DD    --->

Report Identification Text:
Sel Type Reus Op Line Col Text
   PAG  Y   EQ  2   8   '02'
   OR   N   EQ  2   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 CA-Deliver database.

You are now ready to specify report definition attributes for report 4.

Example of Report 3 Output

When output by CA-Deliver, report 3 looks like this:

```

* END ..... END *
* END ..... AMALGAMATED AMERICAN MANUFACTURING ..... END *
* U90526 ..... REGIONAL SALES SUMMARY ..... PAGE 13
  REGION 04 ..... ALL DIVISIONS
* U90526 ..... QUARTERLY SALES ..... PAGE 12
  REGION 04 ..... DIVISION 05
* U90526 ..... REGIONAL SALES SUMMARY ..... PAGE 11
  REGION 03 ..... ALL DIVISIONS
* U90526 ..... REGIONAL SALES SUMMARY ..... PAGE 08
  REGION 02 ..... ALL DIVISIONS
* U90526 ..... QUARTERLY SALES ..... PAGE 07
  REGION 02 ..... DIVISION 04
* U90526 ..... QUARTERLY SALES ..... PAGE 06
  REGION 02 ..... DIVISION 02
* U90526 ..... QUARTERLY SALES ..... PAGE 05
  REGION 02 ..... DIVISION 01
* U90526 ..... REGIONAL SALES SUMMARY ..... PAGE 04
  REGION 01 ..... ALL DIVISIONS
* START ..... START *
* START ..... AMALGAMATED AMERICAN MANUFACTURING ..... START *
* START ..... TEMPLE STREET FACILITY - LOS ANGELES, CA ..... START *
* START ..... START *
* U U 9999 0000 555555 2222 66666 RRRRR 0000 33333
* U U 9 9 0 0 5 2 2 6 R R 0 0 3
* U U 99999 0 0 55555 2 66666 ----- RRRRR 0 0 33333
* U U 9 0 0 5 2 6 6 R R 0 0 3
* U U 9 0 0 5 2 6 6 R R 0 0 3
* UUUU 9 0000 55555 222222 6666 R R 0000 33333
* .....
* REPORT ID: U90526-RO3 DATE: 07/20/00
* JOBNAME: U90526 TIME: 10:45:42
* JOBID: JOB 8407 CLASS: E
* .....
* SEND REPORTS TO:
* MR. STEVE KELLEY
* DEPT. 30
* .....
* SPECIAL INSTRUCTIONS
* REGION 2 & 4 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY
* .....
* START ..... START *

```

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 to copy all distribution specification information (including default parameter information) from report U90526-R03 to report U90526-R04.

```

CA-Deliver ----- Report Definition Attributes ----- U90526-R03 saved
Command ==> COPY U90526-R03 ALL

  ID   ----> U90526-R04   Job   ----> U90526   Type  ----> STACK
  Step ---->              Procstep ---->      DD   ---->

  Desc ==>

Attributes:
  ARCH ==>              BANNER ==>          BURST ==>
  CC   ==>              CLASS  ==>          COPIES ==>
  FCB  ==>              FORM   ==>          FLASH ==> ( , )
  LATE ==>              OPTCDJ ==>         UCS   ==>
  FORMDF ==>           PAGEDF ==>         PRMODE ==>
  PRSET ==>           PRTY   ==>
  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   Type  ----> STACK
  Step ---->              Procstep ---->      DD   ---->

  Desc ==> COMPLETE QUARTERLY SALES

Attributes:
  ARCH ==> 1              BANNER ==>          BURST ==>
  CC   ==>              CLASS  ==>          COPIES ==>
  FCB  ==>              FORM   ==>          FLASH ==> ( , )
  LATE ==> 22:00         OPTCDJ ==>         UCS   ==>
  FORMDF ==>           PAGEDF ==>         PRMODE ==>
  PRSET ==>           PRTY   ==>
  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 ----- Row 00001 of 00001
Command ==>                                           Scroll ==> PAGE

  ID    ---> U90526-R04  Job    ---> U90526    Type   ---> STACK
  Step  --->              Procstep --->              DD     --->

  Distribution Specifications:
  Sel Grp  Distid  Copies  Dest              Writer  Out  Rview  Reprt  Del
          D30SMG02  1                               Y      N      Y      Y
***** BOTTOM OF DATA *****
    
```

Report 4 will go to the Vice President of Sales, Molly Bloom.

4. Replace the distribution identifier D30SMG02 with **D01VPRES**.
5. Replace Y under Out with **N** to indicate that this report will be for online viewing only.

```

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

  ID    ---> U90526-R04  Job    ---> U90526    Type   ---> STACK
  Step  --->              Procstep --->              DD     --->

  Distribution Specifications:
  Sel Grp  Distid  Copies  Dest              Writer  Out  Rview  Reprt  Del
          D01VPRES 1                               N      N      Y      Y
***** BOTTOM OF DATA *****
    
```

Because report 4 is also going to the president of Amalgamated American Manufacturing, Mary Shelley, you must copy the line you just corrected.

- 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 ---- Row 00001 of 00001
Command ==>                                           Scroll ==> PAGE

  ID    ---> U90526-R04  Job    ---> U90526    Type   ---> STACK
  Step  --->                Procstep --->                DD     --->

Distribution Specifications:
Sel Grp Distid Copies Dest          Writer Out Rview Reprt Del
R      D01VPRES 1                               N    N    Y    Y
***** BOTTOM OF DATA *****
    
```

- Replace the second distribution identifier D01VPRES with **D01PRES**.
- Replace N under Out with **Y**.

```

CA-Deliver ----- Report Definition Attributes -- Row 00001 of 00002
Command ==>                                           Scroll ==> PAGE

  ID    ---> U90526-R04  Job    ---> U90526    Type   ---> STACK
  Step  --->                Procstep --->                DD     --->

Distribution Specifications:
Sel Grp Distid Copies Dest          Writer Out Rview Reprt Del
      D01VPRES 1                               N    N    Y    Y
      D01PRES 1                                Y    N    Y    Y
***** BOTTOM OF DATA *****
    
```

- 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    Type   ---> STACK
  Step  --->                Procstep --->                DD     --->

Special Instructions:
Sel Instruction
'REGIONS 02 & 04 QUARTERLY SALES REPORT - REVIEW IMMEDIATELY'
***** BOTTOM OF DATA *****
    
```

10. 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    Type   ---> STACK
  Step  --->            Procstep --->          DD    --->

Special Instructions:
Sel Instruction
'QUARTERLY SALES REPORT FOR ALL REGIONS - REVIEW IMMEDIATELY'
***** BOTTOM OF DATA *****
```

11. 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    Type   ---> STACK
  Step  --->            Procstep --->          DD    --->

Report Identification Text:
Sel Type Reus Op Line Col Text
PAG Y EQ 2 8 '02'
OR N EQ 2 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. Do the following on Line 1 on the Report Identification Text subpanel:
 - a. Change Y to N under Reus.
 - b. Change 2 to 1 under Line.
 - c. Change 8 to 1 under Col.
 - d. Change '02' 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   Type   ---> STACK
   Step  --->              Procstep --->          DD      --->

Report Identification Text:
Sel Type Reus Op Line Col Text
PAG N   EQ  1  1   ' '
OR  N   EQ  2  8   '04'
PAG Y   EQ  1  44  'SUMMARY'
***** BOTTOM OF DATA *****
    
```

2. Do the following on line 2:
 - a. Change EQ to NE under Op.
 - b. Change 2 to 1 under 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   Type   ---> STACK
   Step  --->              Procstep --->          DD      --->

Report Identification Text:
Sel Type Reus Op Line Col 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** (the 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   Type   ---> STACK
   Step  --->              Procstep --->          DD     --->

Report Identification Text:
Sel Type Reus Op Line Col  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 CA-Deliver database.

Molly Bloom's Report

Molly Bloom's report is not printed, since she requested the report for online viewing only.

Step 10: Close Panels and Finish Your Work

1. Enter **END** on the command line of the Report Definition Attributes panel, and press Enter to add the report you defined to the CA-Deliver database.

The Reports for Job panel is displayed for the job.

```

CA-Deliver ----- Reports for Job: U90526 ----- U90526-R04 saved
Command ==>                                         Scroll ==> PAGE

Desc ==> QUARTERLY SALES
Prevrn ==>

Sel Stepname Procstep DDname Report Id Type Prevrn
   SALESTEP      REPORTS U90526-R01 STACK *ADDED*
                   U90526-R02 STACK *ADDED*
                   U90526-R03 STACK *ADDED*
                   U90526-R04 STACK *ADDED*

***** 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. The job is added to the CA-Deliver database.

You are now ready to run the job.

Step 11: Submit the Report

When you submit the job, CA-Deliver 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, then prints each report for distribution.

Defining Reports Created from Interleaved Records

This chapter explains how to define reports created from interleaved records 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.

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 will be put together to create a report from interleaved records.

Interleave identifiers are inserted by report generators like Report Program Generator (RPG) 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

The following example shows an interleave identifier:

```
1BReport-01B ----- Subsidiary Sales----- Amalgamated American Manufacturing
```



"B" is an interleave identifier

A carriage control character is **not** an interleave identifier, as shown in the following illustration.

```
1BReport-01B ----- Subsidiary Sales ----- Amalgamated American Manufacturing
```



"1" is a carriage control character;
it is not an interleave identifier

Interleaved SYSOUT Data

The following is the interleaved SYSOUT data from which you will create reports in this chapter:

```
1ERECJOB01 ***** SALES RESULTS 2000 213 7/20/00 ***** PAGE 01
E
OEREPOR-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 Zelcor Stationary 1256 Blip Bl, Newtown 213 555 6793  $55,900,000.00
E
1BRECJOB01 ***** SALES RESULTS 2000 818 7/20/00 ***** PAGE 01
B
OBReport-01B -----SUBSIDIARY SALES -----Amalgamated American Manufacturing
B
OB Name          Address          Phone          YTD SALES 2000  Sub.
B ****          *****          *** ** *      *****
B
OB Jewelry Design 19555 Vent Bl, Tasmania 818 555 5678  $10,886,401.00 47-94
OB Best Realty    140 Erving St, Clifton 818 555 3343  $13,012,000.00
```

Elements of Interleaved SYSOUT Data

The elements of the interleaved SYSOUT data shown in the previous illustration are described in the following table:

Element	Description
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 Stationary...	The set of interleaved records of SYSOUT data that make up report 1
1BRECJOB01 *****... B 0BReport-01B... B 0B Name... B * * * *... B 0BJewelry Design... 0BBob'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. (Note that SYSOUT records from different reports can be mixed.)

CA-Deliver processes interleaved records in the order in which they are encountered. The records must, however, remain in the same relative order in any one report identified by the same interleave identifier. Records shown in the previous illustration, for example, can be reorganized as shown in the following illustration, but they still produce exactly the same reports.

```

1ERECJOB01 ***** SALES RESULTS 2000 213 7/20/00 ***** PAGE 01
E
OEREPOR-01E -----SUBSIDIARY SALES -----Amalgamated American Manufacturing
E
OE Name Address Phone YTD SALES 2000 Sub.
E **** ***** *** ** * *****
E
1BRECJOB01 ***** SALES RESULTS 2000 818 7/20/00 ***** PAGE 01
B
OBReport-01B -----SUBSIDIARY SALES -----Amalgamated American Manufacturing
OB Name Address Phone YTD SALES 2000 Sub.
B **** ***** *** ** * *****

OE Zilch Nichols 19255 Burk St, Hollywood 213 555 9800 $95,875,000.00 76-94
OB Jewelry Design 19555 Vent Bl, Tasmania 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 Zelcor Stationary 1256 Blip Bl, Newtown 213 555 6793 $55,900,000.00
OB Best Realty 140 Erving St, Clifton 818 555 3343 $13,012,000.00
E
B
    
```


Defining Reports Created From Interleaved Records

***Important!** Use a test CA-Deliver database to follow the procedures in this chapter so 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 displayed before you begin this section. You must also define a distribution identifier for the Marketing group before performing the steps presented in this section. Defining distribution identifiers is introduced in the chapter "[Defining Basic Reports.](#)"

The following 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 Panels and Finish Your Work](#)

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 2000 sales results for Amalgamated American Manufacturing's subsidiaries based on telephone area codes. The data set that contains these sales results was generated by RPG.

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. From the programmer analyst, you learn that the carriage control character is the first character and the interleave identifier is the second character of each record in the sales results data set.

In addition, you determine that:

- The name of this job will be RECJOB01, the Stepname RPGSTEP, the report DDname RECREPS, and the identifiers of the two reports RECJOB01-R01 and RECJOB01-R02.
- The reports will be distributed to the Marketing group, whose distribution identifier is D10MRKT.
- The reports are late if they are not completed by 2:00 P.M.
- You will archive the reports.

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

The following description shows the major elements of your fourth JCL:

DD Statement	Definition
//RPGSTEP EXEC PGM=RPG	Specifies the application that generates the sales results data (RPG)
//INPUT1 DD DSN=SALES.INPUT.DATA,DISP=OLD, // DCB=(RECFM=FBA,LRECL=133,BLKSIZE=1330)	Specifies 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	Specifies 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 2000** 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 2000
Prevrn ==>

Sel Stepname Procstep DDname Report Id Type Prevrn
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   Type  ---> INTER
  Step ---> RPGSTEP   Procstep --->           DD    ---> RECREPS

  Desc ==>

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

The late time of 14:00 P.M. **does not** ensure 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   Type  ---> INTER
  Step ---> RPGSTEP   Procstep --->           DD    ---> RECREPS

  Desc ==> SALES RESULTS 2000 818

Attributes:
ARCH ==> 1           BANNER ==>           BURST ==>
CC   ==>           CLASS  ==>           COPIES ==>
FCB  ==>           FORM   ==>           FLASH ==> ( , )
LATE ==> 14:00      OPTCDJ ==>           UCS   ==>
FORMDF ==>        PAGEDF ==>           PRMODE ==>
PRSET ==>         PRTY   ==>
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.
Any lowercase characters you entered on the panel are automatically converted to uppercase.
3. Enter **D** on the command line, and press Enter to display the Distribution Specifications subpanel.

```

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

   ID   ---> RECJOB01-R01 Job   ---> RECJOB01  Type   ---> INTER
   Step ---> RPGSTEP      Procstep --->         DD     ---> RECREPS

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer Out Rview Reprt Del

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

4. Enter the distribution identifier for the marketing group in the Distid field.

```

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

   ID   ---> RECJOB01-R01 Job   ---> RECJOB01  Type   ---> INTER
   Step ---> RPGSTEP      Procstep --->         DD     ---> RECREPS

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer Out Rview Reprt Del
          D10MRKT

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

Leave the remaining fields on the panel blank to use the default settings.

- 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  Type   ---> INTER
   Step  ---> RPGSTEP      Procstep --->          DD     ---> RECREPS

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.

- Enter the special instructions **SALES RESULTS 2000 - 818 AREA CODE - REVIEW IMMEDIATELY** below the Instruction field, and press Enter.

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

```

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

   ID    ---> RECJOB01-R01 Job      ---> RECJOB01  Type   ---> INTER
   Step  ---> RPGSTEP      Procstep --->          DD     ---> RECREPS

Special Instructions:
Sel Instruction
'SALES RESULTS 2000 - 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   Type   ---> INTER
   Step ---> RPGSTEP   Procstep --->           DD     ---> RECREPS

Report Identification Text:
Sel Type Reus Op Line Col  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, do the following:

1. Get a printout of the SYSOUT data set that contains the records you will split.
2. Look for the interleave identifier to use to split the records.

You determine that B is the first interleave identifier.

- On the Report Definition Attributes panel under Text, enter **B**.

```

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

   ID   ---> RECJOB01-R01 Job   ---> RECJOB01   Type   ---> INTER
   Step ---> RPGSTEP   Procstep --->           DD     ---> RECREPS

Report Identification Text:
Sel Type Reus Op Line Col   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.

- Press Enter to refresh the Report Identification Text subpanel.
- Enter **END** on the command line, and press Enter to display the Report Definition Attributes panel.
- Enter **END** on the command line, and press Enter to save the information you entered for report 1 in the CA-Deliver database.

You are now ready to specify report definition attributes for report 2.

Step 4: Specify Report Definition Attributes for Report 2

To specify report definition attributes for report RECJOB01-R02, do the following:

1. On the command line of the Report Definition Attributes panel, enter **COPY RECJOB01-R01 ALL**, and press Enter.

```

CA-Deliver ----- Report Definition Attributes -----
Command ==> COPY RECJOB01-R01 ALL

ID   ---> RECJOB01-R02 Job   ---> RECJOB01   Type  ---> INTER
Step --->                   Procstep --->         DD   --->

Desc ==>

Attributes:
ARCH ==>                   BANNER ==>                   BURST ==>
CC   ==>                   CLASS  ==>                   COPIES ==>
FCB  ==>                   FORM   ==>                   FLASH ==> ( , )
LATE ==>                   OPTCDJ ==>                   UCS   ==>
FORMDF ==>                 PAGEDF ==>                   PRMODE ==>
PRSET ==>                 PRTY   ==>
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 to display the Special Instructions subpanel.

```

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

ID   ---> RECJOB01-R02 Job   ---> RECJOB01   Type  ---> INTER
Step --->                   Procstep --->         DD   --->

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  Type  ---> INTER
  Step  --->                      Procstep --->      DD    --->

Special Instructions:
Sel Instruction
'SALES RESULTS 2000 - 213 AREA CODE - REVIEW IMMEDIATELY'

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

4. 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-R02 Job      ---> RECJOB01  Type  ---> INTER
  Step  --->                      Procstep --->      DD    --->

Report Identification Text:
Sel Type Reus Op Line Col 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, do the following:

1. Obtain a printout of the SYSOUT data set that contains the records you will 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  Type  ---> INTER
   Step  --->                               Procstep --->          DD    --->

Report Identification Text:
Sel Type Reus Op Line Col  Text
      AND  N   EQ  1   1   'E'

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

Leave the remaining fields blank to specify a report created from interleaved records; the remaining fields are not used.

4. Press Enter to refresh the Report Identification Text subpanel.
The interleave identifier (identification text) that will extract records for report 2 is entered into the CA-Deliver 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 will be saved in the CA-Deliver database.

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 to add the report you defined to the CA-Deliver database and display the Reports for Job panel.

```

CA-Deliver ----- Reports for Job: RECJOB01 ----- RECJOB01-R02 saved
Command ==>                                         Scroll ==> PAGE

Desc ==> SALES RESULTS 2000
Prevrn ==>

Sel Stepname Procstep DDname Report Id Type Prevrn
RPGSTEP      RECREPS  RECJOB01-R01 INTER *ADDED*
              RECJOB01-R02 INTER *ADDED*

***** 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 CA-Deliver database. You are now ready to run the job.

Defining Reports That Contain Control Breaks

Reports that contain control breaks are similar to basic reports except that CA-Deliver will insert a separator page in the generated report wherever it encounters a control break that you define. CA-Deliver outputs a single report for distribution and the separator pages create, in effect, separate reports.

This chapter explains how to define a report that contains control breaks including:

- How to define and identify a report that contains control breaks
- How to define and identify a separator page
- How to define and identify a control break
- How to specify control break identification criteria
- How to specify report definition attributes for a report that contains control breaks

What Is a Control Break?

A *control break* is a point at which CA-Deliver divides a SYSOUT data set into unique pages by inserting a separator page when data changes.


```

* SEPARATOR ***** START *
* SEPARATOR ***** START *
* SEPARATOR **** AMALGAMATED AMERICAN MANUFACTURING ***** START *
* SEPARATOR **** TEMPLE STREET FACILITY - LOS ANGELES, CA ***** START *
* SEPARATOR ***** START *
* SEPARATOR ***** START *
* U U 55555 0000 55555 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: 02/15/00 *
* 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 which is distributed as one report. Banner pages are attached to the beginning and end of the report. 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, CA-Deliver recognizes a control break and inserts a separator page at that location.

Examples

You can specify the following 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 CA-Deliver database to follow this procedure so you do not inadvertently change or lose data in your production database

CA-Deliver must be installed and running with the Primary Selection Menu panel displayed before you try the examples in this section. You must also define distribution identifiers for the President and the Vice President of Sales before performing the steps in this section. Defining distribution identifiers is introduced in the chapter "[Defining Basic Reports.](#)"

The following 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 CA-Deliver.
- [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 CA-Deliver 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, CA-Deliver 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.

Scenario

In this scenario, you are George Jones again, 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 do the following to comply with this request:

1. Extract the quarterly sales data for this report
2. Define the control break identification criteria that indicate where to insert separator pages
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

You determine the following:

- The name of this job is U50500, the Stepname is QSALESTP, the report DDname is QREPORT, and the identifier of the report is U50500-R01.
- The report will be distributed to the Vice President of Sales, Molly Bloom, whose distribution identifier is D01VPRES, and the President, Mary Shelley, whose distribution identifier is D01PRES.
- The report will be marked late if it is not completed by 12:00 P.M. midnight.
- You will archive the report.

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

Following is a description of the major elements of your fifth JCL:

DD Statement	Definition
//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 will be processed by CA-Deliver 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, do the following:
 - 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
Prevrn ==>

Sel Stepname Procstep DDname  Report Id  Type  Prevrn
   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, do the following:
 - 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   ---> U0500-R01   Job    ---> U0500   Type  ---> CNTL
Step ---> QSALESTP   Procstep --->          DD    ---> QREPORT

Desc ==> REGIONS 1&2 SALES REPORT

Attributes:
ARCH ==> 1           BANNER ==>          BURST ==>
CC   ==>           CLASS  ==>          COPIES ==>
FCB  ==>           FORM   ==>          FLASH ==> ( , )
LATE ==> 23:59     OPTCDJ ==>         UCS   ==>
FORMDF ==>         PAGEDF ==>         PRMODE ==>
PRSET ==>         PRTY   ==>
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.

- 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 ---- Row 00001 of 00010
Command ==>                                         Scroll ==> PAGE

   ID   ---> U50500-R01   Job   ---> U50500   Type  ---> CNTL
   Step ---> QSALESTP   Procstep --->          DD    ---> QREPORT

Distribution Specifications:
Sel Grp  Distid  Copies  Dest              Writer  Out  Rview  Reprt  Del

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

- Enter the distribution identifier **D01VPRES** in the Distid column to distribute a copy of the report to the Vice President of Sales.

```

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

   ID   ---> U50500-R01   Job   ---> U50500   Type  ---> CNTL
   Step ---> QSALESTP   Procstep --->          DD    ---> QREPORT

Distribution Specifications:
Sel Grp  Distid  Copies  Dest              Writer  Out  Rview  Reprt  Del
          D01VPRES

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

Leave the remaining fields on the Distribution Specifications subpanel blank in order to use the default settings.

- Enter **R** (Repeat) on the first row in the Sel column, and press Enter to copy the line you just entered so you can distribute a copy of the report to the President.

```

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

   ID   ---> U50500-R01   Job   ---> U50500   Type   ---> CNTL
   Step ---> QSALESTP   Procstep --->           DD     ---> QREPORT

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer Out Rview Reprt Del
R       D01VPRES

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

The first line is copied once. Default settings appear in the fields you left blank; any lowercase characters are automatically converted to uppercase.

- Replace the second distribution identifier D01VPRES with **D01PRES**.

```

CA-Deliver ----- Report Definition Attributes ---- Row 00001 of 00011
Command ==>                                           Scroll ==> PAGE

   ID   ---> U50500-R01   Job   ---> U50500   Type   ---> CNTL
   Step ---> QSALESTP   Procstep --->           DD     ---> QREPORT

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer Out Rview Reprt Del
D01VPRES 1                       Y     Y     N     Y     Y
D01PRES  1                       Y     Y     N     Y     Y

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

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

8. 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   Type   ---> CNTL
   Step ---> QSALESTP   Procstep --->           DD     ---> QREPORT

Special Instructions:
Sel Instruction
  'REGIONS 01 & 02 SALES REPORT - REVIEW IMMEDIATELY'

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

Any lowercase characters are automatically converted to uppercase.

9. Enter **END** on the command line, and press Enter.
10. Enter **T** on the command line, and press Enter to display the Control Break Identification subpanel.

```

CA-Deliver ----- Report Definition Attributes -----
Command ==>                                           Scroll ==> PAGE

   ID   ---> U50500-R01   Job    ---> U50500   Type   ---> CNTL
   Step ---> QSALESTP   Procstep --->           DD     ---> QREPORT

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 will 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 will occur and CA-Deliver will insert 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 ==>                                           Scroll ==> PAGE

ID    ---> U50500-R01  Job    ---> U50500  Type  ---> CNTL
Step  ---> QSALESTP  Procstep --->          DD    ---> QREPORT

Control Break Identification:
Line  : 2              Normalized: YES
Col   : 8              Separator  : SEPARATE
Length: 2

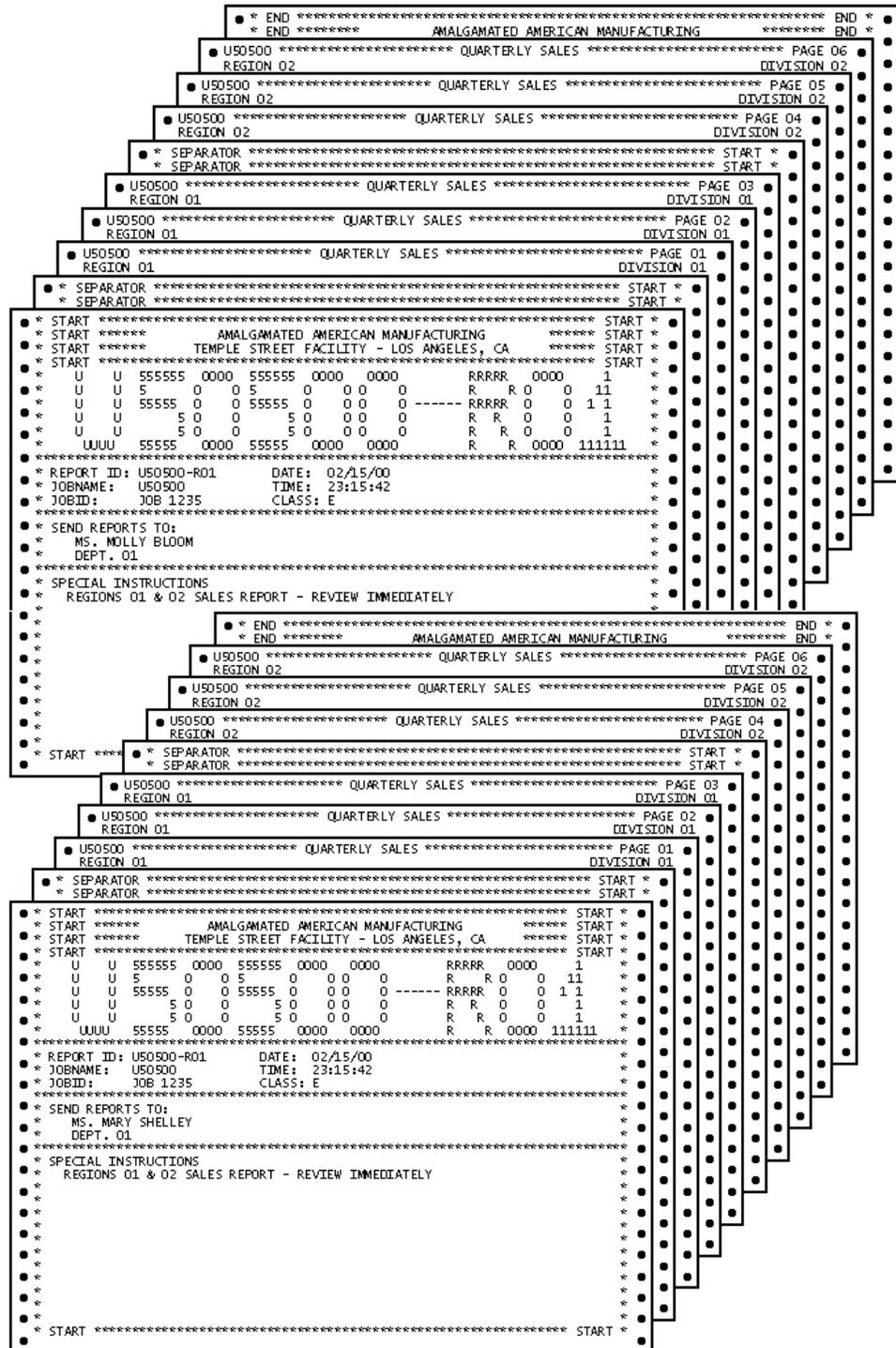
User Field Identification:
      Line  Col  Length      Field 2:
Field 1:  2   1    9          Field 4:
Field 3:                                Field 6:
Field 5:                                Field 8:
Field 7:
Field 9:
    
```

The defaults for the Normalized field (YES) and Separator field (SEPARATE) will be 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 will be saved in the CA-Deliver database.

The following illustration shows the reports processed by CA-Deliver:



Step 4: Close Panels and Finish Your Work

This section describes how to return to 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 added to the CA-Deliver database and the Reports for Job panel is displayed for the job.

```

CA-Deliver ----- Reports for Job: U50500 ----- U50500-R01 saved
Command ==>                                         Scroll ==> PAGE

Desc  ==> QUARTERLY SALES
Prevrn ==>

Sel Stepname Procstep DDname  Report Id  Type  Prevrn
   QSALESTP      QREPORT  U50500-R01  CNTL
                                     *ADDED*

***** 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 CA-Deliver database.

You are now ready to submit the job.

Creating a Bundle of Reports

This chapter provides instructions for creating a bundle of reports, and includes the following:

- How to define a bundle identifier, a bundle distribution identifier, and a bundle of reports
- How to identify a continuation bundle, the parts of a bundle, bundle banner pages, and distribution banner pages
- Determining how and when initial and continuation bundles are produced based on information you provide on the Bundle Definition Attributes panel
- How to specify bundle definition attributes, bundle distribution specifications, and bundle special instructions
- How to identify reports to be included in a bundle for CA-Deliver
- How to list and redisplay bundles
- How to define and describe an external writer name

What Is a Bundle Identifier?

A *bundle identifier* is a unique string of characters from 1–10 characters long that identifies a bundle in CA-Deliver.

Example

An example of a bundle identifier is SABUNDL2.

Rules for Defining Bundle Identifiers

Follow these rules when defining bundle identifiers:

- The bundle identifier can be from 1 to 10 characters long.
- The characters of the identifier name can be a letter, number, period, national character (\$, #, @), percent sign (%), cent sign (¢), explanation mark (!), slash (/), underscore (_), or dash (hyphen).
- You **cannot** use a blank or other special characters in the identifier.

We recommend that you establish and adhere to a convention for naming bundle identifiers to avoid inconsistency in the CA-Deliver database and confusion among users.

Note: You can define a bundle identifier through the CA-Deliver online facility, as described later in this chapter, or through batch by using the CA-Deliver utility RMODBB. The RMODBB utility is described in the *CA-Deliver Reference Guide*.

What Is a Bundle Distribution Identifier?

A *bundle distribution identifier*, or *BDIST*, is a unique string of 1 to 8 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, which is a mail stop location you will use in this chapter. You can also use building numbers and mail addresses as bundle distribution identifiers.

Rules for Defining Bundle Distribution Identifiers

Following are rules to keep in mind when defining bundle distribution identifiers:

- You must use a name that is 1 to 8 characters long.
- The characters of the identifier name can be a letter, number, period, national character (\$, #, @), percent sign (%), cent sign (¢), explanation mark (!), slash (/), underscore (_), or dash (hyphen).
- You cannot use a blank or other special characters 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 and adhere to a convention for naming bundle distribution identifiers to avoid inconsistency in the CA-Deliver database and confusion among users.

What Is a Bundle of Reports?

A *bundle of reports* is a “package” of previously-defined CA-Deliver reports generated by one or more jobs at the same or different times in a cycle and grouped together by CA-Deliver.

You can specify that a bundle of reports will 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 available when an interval of time you specify 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. CA-Deliver prints continuation bundles until all reports that you specify for inclusion in the bundle are 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

CA-Deliver prints three kinds of banner pages in a bundle of reports:

- Report banner pages
- Distribution banner pages
- Bundle banner pages

The following illustration shows bundle SABUNDL2 (including the three kinds of banner pages), which you will create in this chapter.

Parts of a Bundle Banner Page

The fields on the bundle banner page are described in the following table.

Field	Description
BUNDLE ID	Bundle identifier for reports (SABUNDL2 in the previous example) which identifies a bundle
BUNDLE NO	Number of the bundle which 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
DATE	Date (08/16/00 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 your site's requirements. Modifying model banner pages is described in the *CA-Deliver Reference Guide*.

Parts of a Distribution Banner Page

The fields on the distribution banner page are described in the following table.

Note: You can modify banner pages to suit the unique requirements of your site. Modifying model banner pages is described in the *CA-Deliver Reference Guide*.

Field	Description
DISTID	Distribution identifier for the reports (D01VPRES in the previous example) which indicates the person to whom or location to which a report is to be distributed
CLASS	SYSOUT class (X in the previous example) to which the reports that are to be distributed to the DIST ID are written
DATE	Date (08/16/00 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
DISTRIBUTE REPORTS TO	Location to which or person to whom the reports are to be delivered, in words
CONTENTS BY REPORT	Report (U50500-R01 in the previous example) that will be distributed to the Distid

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 (introduced later in this chapter) interact with each other. This interaction determines how and when a bundle is produced as shown in the following 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 produced or in NPROD status INTERVAL expires (from time first report created).	INTERVAL expires (from time last bundle created)
None	>00:00	N	Y	All active reports produced or in NPROD status INTERVAL expires (from time first report created)	INTERVAL expires (from time last bundle created)
None	>00:00	Y	N	INTERVAL expires (from time first report created)	INTERVAL expires (from time last bundle created)
None	>00:00	Y	Y	INTERVAL expires (from time first report created)	INTERVAL expires (from time last bundle created)
Specified	>00:00	N	N	All active reports are produced or LATE time is reached WARNING! <i>If LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle will be produced when any reports are ready!</i>	INTERVAL expires (from time last bundle created)
Specified	>00:00	N	Y	LATE time is reached WARNING! <i>If LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle will be produced when any reports are ready!</i>	INTERVAL expires (from time last bundle created)
Specified	>00:00	Y	N	INTERVAL expires or LATE time is reached WARNING! <i>If LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle will be produced when any reports are ready!</i>	INTERVAL expires (from time last bundle created)

LATE	INTERVAL	WAIT Int.	WAIT for Late	Initial Bundle is Produced When	Continuation Bundle is Produced When
Specified	>00:00	Y	Y	LATE time is reached <i>WARNING! If LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle will be produced when any reports are ready!</i>	INTERVAL expires (from time last bundle created)
None	00:00	N	N	All active reports produced or in NPROD status	User issues PRINT request Note: A PRINT request overrides all other criteria.
None	00:00	N	Y	All active reports produced or in NPROD status	User issues PRINT request Note: A PRINT request overrides all other criteria.
None	00:00	Y	N	User issues PRINT request Note: A PRINT request overrides all other criteria.	User issues PRINT request Note: A PRINT request overrides all other criteria.
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 <i>WARNING! If LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle will be produced when any reports are ready!</i>	User issues PRINT request Note: A PRINT request overrides all other criteria.
Specified	00:00	N	Y	LATE time is reached <i>WARNING! If LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle will be produced when any reports are ready!</i>	User issues 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
Specified	00:00	Y	N	LATE time is reached <i>WARNING! If LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle will be produced when any reports are ready!</i>	User issues PRINT request Note: A PRINT request overrides all other criteria.
Specified	00:00	Y	Y	LATE time is reached <i>WARNING! If LATE time is later than BEGINDAY, and the current time is earlier than BEGINDAY, the bundle will be produced when any reports are ready!</i>	User issues PRINT request Note: A PRINT request overrides all other criteria.

For example, if you do not specify a late time, but specify 00:30 for 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 CA-Deliver database to follow this procedure so that you do not inadvertently change or lose data in your production database.

CA-Deliver 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?

CA-Deliver monitors the creation of bundles once you define them in the CA-Deliver online facility. CA-Deliver automatically scans the CA-Deliver 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 CA-Deliver 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 President, Mary Shelley	D01VPRES (for online view only) 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 hard copy 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 ==>

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-Deliver ----- Bundle Definition Attributes -----  
Command ==>  
  
  ID   ---> APBUNDL1  
  Desc ==>  
  
Attributes:  
Banner ==> (           ,           )  
BDist  ==>  
Late   ==>  
Interval ==>           Bundle Confirm? ==>  
                               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.

Field	Description
Desc	Identifies a 1-24 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.

Field	Description
Bundle Confirm?	Indicates bundle printing confirmation as follows:
	Y The bundle is not to be printed until you enter the P tabular command on the Active Bundle List panel
	N The P tabular command need not be entered to print the bundle
	Blank Use the BNDLCONF initialization parameter setting
Late	Specifies the time of day (24-hour <i>hh:mm</i> 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 <i>hh:mm</i> format when continuation bundles are to be created
	Blank Use the default bundling interval specified by the BNDLINT initialization parameter.
	00:00 Suppress the creation of continuation bundles
Wait (Int)	Specifies the following:
	Y The bundle will not print until its bundling interval has expired
	N 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:
	Y The bundle will 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	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

3. Enter **ACCOUNTS PAYABLE REPORTS** in the Desc field.

```

CA-Deliver ----- Bundle Definition Attributes -----
Command ==>

ID   ---> APBUNDL1
Desc ==> ACCOUNTS PAYABLE REPORTS

Attributes:
Banner ==> (           ,           )
BDist ==>
Late  ==>
Interval ==>
Bundle Confirm? ==>
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.
    
```

4. 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  ==>
Interval ==>
Bundle Confirm? ==>
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 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, CA-Deliver, by default, uses the report distribution identifier for the first distribution point in the bundle as the BDIST.

6. 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.
    
```

7. 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), CA-Deliver prints a continuation bundle every 30 minutes, starting from the time when the first report was created.

8. Enter **N** in the Bundle Confirm? field.
9. 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.

10. Enter the job control statement shown in the following illustration on the first row of the Job Statement Information field, and press Enter to display 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: Follow the standards for your site when creating job control statements.

Tip: Create a skeleton job card for your site that you can use for bundles so that you do not need to constantly reenter job control statements every time you create a bundle.

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  Distid          Address Line 1

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

2. Enter the distribution identifier for the Accounts Payable Department, **D29AP** under Distid, and press Enter.

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

      ID      ---> APBUNDL1

Distribution Specifications:
Sel  Distid          Address Line 1
     D29AP

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

3. 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 *****
```

- 3. 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 *****
```

2. Enter **END** on the command line, and press Enter to display the Bundle Definition Attributes panel.
3. Enter **END** on the command line, and press Enter to save the data you entered for bundle 1 in the CA-Deliver database and return to the Primary Selection Menu.

You are now ready to define bundle SABUNDL2.

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 CA-Deliver at your site can permanently assign REDISP to the Enter key by setting an initialization parameter when initializing CA-Deliver.

Use the following table to determine how you want to assign the REDISP to the Enter key.

Type of Assignment	Description
Temporarily assign REDISP to the Enter key	<p>Refreshes the display with new items activated since you last displayed the list</p> <p>Enter REDISP ON on the command line of one the following panels, and press Enter:</p> <ul style="list-style-type: none"> ■ Active Bundle List (primary) panel ■ Active Report List (primary) panel ■ Active Report List for Bundle panel
Permanently assign REDISP to the Enter key	<p>See the person responsible for installing CA-Deliver at your site to set the initialization parameter REDISP=YES.</p>
Temporarily turn off the assignment of REDISP to the Enter key	<p>During the current session, you must enter REDISP on the command line or use a PF key, if set, to refresh a selection list.</p> <p>Enter REDISP OFF on the command line of one the following panels, and press Enter:</p> <ul style="list-style-type: none"> ■ Active Bundle List (primary) panel ■ Active Report List (primary) 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 will save you time since you will not need to 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  
  
PF13 ==> HELP  
PF14 ==>  
PF15 ==> END  
PF16 ==> RETURN  
PF17 ==> RFIND  
PF18 ==>  
PF19 ==> UP  
PF20 ==> DOWN  
PF21 ==> SWAP  
PF22 ==> LEFT  
PF23 ==> RIGHT  
PF24 ==> CURSOR  
  
Press ENTER key to display alternate keys. Enter END command to exit.
```

2. Enter **REDISP** in the PF14 field.

```
CA-Deliver - PF Key Definitions - Primary Keys -----  
Command ==>  
  
Number of PF Keys ==> 24  
  
PF13 ==> HELP  
PF14 ==> REDISP  
PF15 ==> END  
PF16 ==> RETURN  
PF17 ==> RFIND  
PF18 ==>  
PF19 ==> UP  
PF20 ==> DOWN  
PF21 ==> SWAP  
PF22 ==> LEFT  
PF23 ==> RIGHT  
PF24 ==> CURSOR  
  
Press ENTER key to display alternate keys. Enter END command to exit.
```

- Press Enter to display PF keys 1 through 12 and enter **REDISP** in the PF2 field.

```

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

NOTE: The definitions below apply only to terminals with 24 PF keys.

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 ==> RETRIEVE

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

- 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

- 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 -----
Command ==>
                                           Scroll ==> PAGE

Sel Bundle Id      -- Last Changed -- User      Description
==> *              *          *          *
  APBUNDL1         08/31/1994 09:00:04 GJONES   ACCOUNTS PAYABLE REPORTS
  D902344          08/26/1994 13:55:52 N27USR   DELIVERABLES - NORTH SIT
  D902354          08/31/1994 13:55:52 N27USR   DELIVERABLES - SOUTH SIT
  D902457          11/10/1993 09:44:57 N27USR   DELIVERABLES - IN HOUSE
  D903125          08/26/1994 14:50:05 GJONES   CASH - WEST SITE
  D90415           12/03/1993 12:25:54 HFINN    CASH - IN HOUSE
  D904564          01/03/1994 11:56:49 N27USR   DELIVERABLES - WEST SITE
  D90514           01/03/1994 12:32:38 HFINN    CASH - NORTH SITE
  D90543           12/15/1993 09:46:09 N27USR   CASH - SOUTH SITE
  D905465          08/31/1994 13:31:20 HFINN    CUSTOMERS - IN HOUSE
  D90563           12/15/1993 16:16:05 HFINN    CASH - EAST SITE
  D90675           12/15/1993 13:56:47 N27USR   CASH - WAREHOUSE
  D907869          01/03/1994 14:13:48 N27USR   DELIVERABLES - EAST SITE
  FINBNDL01        11/15/1993 10:18:15 GJONES   FINANCIAL DATA
  FINBNDL02        12/03/1993 10:05:23 HFINN    FINANCIAL SUMMARIES
  GJONESBNDL       01/03/1994 16:06:18 TEST     TESTING DESCRIPTION
  XBNDL004         12/15/1993 16:46:29 HFINN    CHECKING - IN HOUSE
  XBNDL005         12/15/1993 16:16:18 HFINN    CHECKING - NORTH SITE
  XBNDL006         05/05/1994 16:46:38 HFINN    CHECKING - SOUTH SITE
    
```

- 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.

- Press PF4 or PF16 to display the Primary Selection Menu panel.
- On the command line, enter **A**, space, **B**, and press Enter to display the Primary Active Bundle List panel.

```

CA-Deliver - Active Bundle List (Primary) -----
Command ==>                                     Scroll ==> PAGE

Sel Bundle Id      Locked  Submit  Remaining  Wait  Status  Excpt
==> *              Sysid   *       Intvl Time *      *      *
APBUNDL1           CPUA   YES     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
FINBNDL01          *      *      00:00      QUEUED  INCMP
FINBNDL02          *      *      00:00      BNDLWAIT
GJONESBNDL        *      *      00:00
XBNDL004           *      *      00:00      QUEUED
XBNDL005           *      *      00:00      QUEUED  INCMP
XBNDL006           *      *      00:00      PRT REQ
    
```

Note: Only bundles that contain reports that are pre-activated with the RMORAP utility, activated dynamically, or activated with a line command are listed; RMORAP is described in the *CA-Deliver Reference Guide*.

- Press Enter (the key to which you previously set REDISP) to display the bundles activated since you last displayed the list.
- 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 ==>

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. 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.

2. Enter the following distribution identifiers under Distid, 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  Distid      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 *****
    
```

3. 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
 - U90526-R05

```

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 *****
    
```

3. Enter **END** on the command line, and press Enter to display the Bundle Definition Attributes panel.
4. Enter **END** on the command line, and press Enter to save the data for bundle 2 in the CA-Deliver database and return to the Primary Selection Menu.

You are now finished defining bundles.

External Writer Name

An *external writer* is an MVS routine that directs SYSOUT (system output) to magnetic tape devices and data sets as well as 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

RMxnnnnn

The syntax elements of an external writer name are as follows:

Element	Description
RM	A standard prefix that identifies the external writer name as part of the CA-Deliver product
<i>x</i>	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 CA-Deliver users who are using only one CPU.
<i>nnnnn</i>	A five-digit sequential number from 1 to 99999 that is maintained by CA-Deliver

Note: CA-Deliver 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 of CA-Deliver 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 primary Active Bundle List panel, or use 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 *CA-Deliver Reference Guide*.

Rules for Specifying Distribution and Report Identifiers

Rules to keep in mind when specifying distribution and report identifiers in bundle definitions are as follows:

- 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.

You define distribution identifiers on the report Distribution Specifications subpanel; you 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 distribution and report identifiers you specify are defined as a corresponding pair of identifiers (on the report Distribution Specifications subpanel and Reports for Job panel).

- Be sure to list distribution identifiers on the bundle Distribution Specifications subpanel.

If the bundle Distribution Specifications subpanel is empty, the bundle is **not** output.

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 the following:

- How to understand the daily production cycle
- How to know the difference between an initial run, a rerun, and a complete cycle
- How to become familiar with the primary and alternate Active Report List panels
- How to become familiar with the primary and alternate Active Bundle List panels
- How to use CA-Deliver to manually delete bad reports and rerun jobs that end abnormally

There are two ways you can use the information in this chapter:

- If you do **not** have CA-Runtrac or CA-11 and an interface between CA-Rerun or CA-11 and CA-Deliver is set up at your site, we recommend that you read and try out each procedure presented in this chapter.
- If you have CA-Runtrac or CA-11 and an interface between CA-Rerun or CA-11 and CA-Deliver is set up at your site, you will only need this chapter as a reference, since bad reports are deleted automatically and jobs that end abnormally are automatically rerun at your site.

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 a job ends abnormally, a report is lost, bad input is encountered, or after another 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. You may, for example, 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.

What Happens When a Cycle Starts?

When a new daily cycle starts, CA-Deliver does the following:

- Moves active report status entries from the current cycle to the prior cycle
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, 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 CA-Deliver online facility.
- Execute the RMORAP utility, which is described in the *CA-Deliver Reference Guide*.
- Use both the online facility and the RMORAP utility.

A bundle is automatically activated by CA-Deliver whenever any report defined for it is activated. Likewise, a bundle is automatically inactivated when all reports defined for it are inactivated.

Active Report List Panels

There are two Active Report List panels:

- Active Report List (Primary)
- Active Report List (Alternate)

These two panels accommodate the extensive amount of information about active reports.

You use the primary and alternate 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

Do the following 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:

Command	Description
A R	Displays the complete list of active reports
A R PREV	Displays only a list of reports generated during the previous cycle
A R X	Displays only a list of reports for which there are exceptions

2. Press Enter to display the report list on the Primary Active Report List panel.
3. 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 Primary and Alternate Active Report List panels.

Sample Primary Active Report List Panel

```

CA-Deliver - Active Report List (Primary) -----
Command ==>                                     Scroll ==> PAGE

Sel Report Id      Job Def   Exec      Exec
==> *              Name     Jobname   Jobid    Bundle Id  Status    Excpt
                *          *         *        *          *         *

```

Fields

The fields on the Primary Active Report List panel are described in the following table.

Field	Description
Report Id	Identifies the report for use by CA-Deliver
Job Def Name	Indicates the name of the job that created the report
Exec Jobname	Indicates the name of the job that created the report
Exec Jobid	Indicates the identifier JES number for the job that created (or is creating) the report Note: This field remains blank until the report is selected for creation.
Bundle Id	Identifies the bundle in CA-Deliver
Status	Indicates the status of a report as follows: <ul style="list-style-type: none"> 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

Field	Description
Excpt	Indicates whether an exception has occurred for a report The following exception information can be displayed in this field:
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, that is, that the job that was to produce the report completed without actually creating the report

Sample Alternate Active Report List Panel

```

CA-Deliver - Active Report List (Alternate) -----
Command ==>                                     Scroll ==> PAGE

Sel Report Id   Job   Create   Late   Bndl   View   View
==> *          Seq   Sysid   Time  Bundle Id  Xwtr   Gen   Seq
  
```

Fields

The fields on the Alternate Active Report List panel are described in the following table.

Field	Description
Report Id	Identifies the report for use by CA-Deliver
Job Seq	Specifies the internal sequence number assigned to the job that created the report
Create Sysid	Specifies the identifier for the system that created the job
Late Time	Identifies the time in a 24-hour clock <i>hh:mm</i> format when the report is to be marked late if it is not queued for printing For example, 23:35

Field	Description
Bundle Id	Identifies the CA-Deliver bundle
Bndl Xwtr	Identifies the external writer number of the bundle holding copy
View Gen	Identifies the CA-View generation number
View Seq	Identifies the CA-View SYSOUT sequence number

Active Bundle List Panels

There are two Active Bundle List panels:

- Active Bundle List (Primary)
- Active Bundle List (Alternate)

You use the primary and alternate Active Bundle 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 Bundle List Panels

Do the following 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 report information you want to display:

Command	Description
A R	Displays the complete list of active bundles
A R PREV	Displays only a list of bundles generated during the previous cycle
A R X	Displays only a list of bundles for which there are exceptions

2. Press Enter to display the report list on the Primary Bundle Report List panel.
3. 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 Primary and Alternate Active Bundle List panels.

Sample Primary Active Bundle List Panel

```

CA-Deliver - Active Bundle List (Primary) -----
Command ==>>                                     Scroll ==>> PAGE

Sel Bundle Id      Locked   Submit  Remaining  Wait  Status  Excpt
==> *              *       *       Intvl Time *       *       *
    
```

Fields

The fields on the Primary Active Bundle List panel are described in the following table.

Field	Description
Bundle Id	Identifies the bundle for use by CA-Deliver
Ld Sysid	Identifies the operating system on which the report is being processed and to which the bundle is locked 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
Remaining Intvl Time	Indicates 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

Field	Description
Status	Indicates the status of the bundle as follows: 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 as follows: Blank No exceptions exist for the bundle ABEND The job that created the bundle ended abnormally INCOMP 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 Note: READY is displayed only when bundle confirmation is on.

Sample Alternate Active Bundle List Panel

```

CA-Deliver - Active Bundle List (Alternate) -----
Command ==>>                                     Scroll ==>> PAGE

Sel Bundle Id      Late   Wait   Act  Pnd  Rdy  Bdl
==> *              *     *     Cnt  Cnt  Cnt  Cnt
  
```

Fields The fields on the Alternate Active Bundle List panel are described in the following table.

Field	Description
Bundle Id	Identifies the bundle for use by CA-Deliver
Late	Indicates the time in a 24-hour <i>hh:mm</i> 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	Indicates the number of hours and/or minutes to elapse before subsequent continuation bundles are to be created
Act Cnt	Indicates the count of active reports in the bundle
Pnd Cnt	Indicates the count of reports for which activation is pending
Rdy Cnt	Indicates the count of reports ready to be bundled
Bdl Cnt	Indicates the count of reports that have been bundled

Deleting Bad Reports

Whether the bad reports you want to delete are bundled determines how you delete them. This section presents an overview of the methods you use to delete non-bundled and 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 through an MVS system console or a compatible spool product that enables you to issue operator commands (such as CA-Sysview/E-Command (formerly Sysview/E) 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 until CA-Deliver encounters a type 5 or type 30 System Management Facilities (SMF) record for which a zero return code is generated. 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:

- Enter the JES command by JOB or OUTGROUP through an MVS system console or a compatible spool product that enables you to issue operator commands (such as CA-Sysview/E-Command or IBM's System Display and Search Facility product).
- 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 composed the abnormally ended job to determine if the data is good or bad; make a list of the job and report identifiers of the reports that contain bad data.

Note: You can use CA-Sysview/E-Command (formerly Sysview/E) or IBM's System Display and Search Facility product, or a similar display product to check the data.

2. On the command line of the Primary Selection Menu panel, enter **A**, a space, and **B**, and press Enter to display the primary Active Bundle List panel.

CA-Deliver - Active Bundle List (Primary) -----							
Command ==>			Scroll ==> PAGE				
Sel	Bundle Id	Locked Sysid	Submit	Remaining Intvl Time	Wait	Status	Excpt
==> *		*	*	*	*	*	*
	APBUNDL1	CPUA	YES	00:00			
	APBUNDL2			00:00		QUEUED	

3. Move the cursor down the Sel column 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 APBUNDL1 (Primary) -----
Command ==>                               Scroll ==> PAGE

Sel Report Id      Job Def  Exec    Exec
==> *              Name     Jobname Jobid   Bundle Id  Status  Excpt
                   *          *      *      APBUNDL1  *      *
TRJOB02-R01        TRJOB02 TRJOB02 JOB05496 APBUNDL1  BNDLWAIT
TRJOB02-R02        TRJOB02 TRJOB02 JOB05765 APBUNDL1  BNDLWAIT
TRJOB02-R03        TRJOB02 TRJOB02 JOB05555 APBUNDL1  BNDLWAIT
    
```

5. Move the cursor down the Sel column to the report that contains bad data, enter **D**, and press Enter.

The text ***CHANGED** is displayed after the report identifier for the report (under Report Id). The text **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 a job or job step that produced a bundle, you must issue the **P** command (FORCE PRINT tabular command) to print and clear the bundle.

Obtaining Historical Data

This chapter describes how CA-Deliver's historical data and detail historical data features verify and track the recipients of reports and bundles, including the following:

- How to activate historical data and detailed historical data for reports and bundles of reports
- How to define the maximum number of generations of historical data and detail historical data to display
- How to display historical data and detailed historical data for reports and bundles of reports

Activating the Historical Data Feature

To activate detail historical data, you must do the following:

1. Set the initialization parameter HDETAIL to Yes.
2. Install either the RMOJS2UX or RMOFSSUX user exit.

Note: The HDETAIL initialization parameter and RMOJS2UX and RMOFSSUX user exits are described in the *CA-Deliver Reference Guide*.

Defining the Maximum Number of Generations of Historical Data

Use the MAXHIST initialization parameter to define the maximum number of generations of a report or bundles of reports for which historical data is maintained for a printed SYSOUT.

For more information about the MAXHIST initialization parameter, see the *CA-Deliver 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 created and queued for printing
- The date and time when the report was queued for printing

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, do the following:

1. Enter **J**, a space, and the job name on the command line of the Primary Selection Menu panel.

For example, you specify the job name TRJOB01 in the JCL for the job as follows:

```

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.
    
```

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

```

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

Desc ==>
Prevrn ==>

Sel Stepname Procstep DName Report Id Type Prevrn
EDITSTEP      EDITLIST TRJOB01-R01

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

3. Enter **H** in the Sel column next to the first entry.

```

CA-Deliver - Report Historical Data for TRJOB01-R01-- Row 00001 of 00005
Command ==>                                         Scroll ==> PAGE

Sel Gen Jobname Jobid Lines Pages -- Print Queued -- Prevrn
+0 TRJOB01 JOB07400 1564 300 11/16/1999 07:34:30
-1 TRJOB01 JOB02379 1562 300 11/10/1999 08:46:48
-2 TRJOB01 JOB05263 1495 298 11/09/1999 09:32:07
-2 TRJOB01 JOB05261 1461 297 11/09/1999 09:31:12
-2 TRJOB01 JOB05219 1430 296 11/09/1999 09:07:43
***** BOTTOM OF DATA *****
    
```

4. Press Enter to display the Report Historical Data panel for the selected job.

Fields The fields on the Report Historical Data panel are described in the following table.

Field	Description
Sel	Specifies tabular command
Gen	Shows generation (24-hour period starting at TIME initialization parameter) in which the report was executed and number of times in generation report was created +0 is the current generation. Note that in generation -2, the report ran 3 times.
Jobname	Specifies the job name associated with the report
Jobid	Specifies the JES job number associated with the report
Lines/Pages	Specifies the number of print lines and pages queued for the report
Print Queued	Specifies the date and time when the report was queued to print
Prevrn	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 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 tracking number assigned by CA-Deliver
- 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

To display the Report Detail Historical Data panel, do the following:

1. Enter **H** in the Sel column of the Reports for Job panel, Report Selection List panel, or Active Report List panel.

- 2. Enter **S** in the Sel column of the Report Detail Historical Data panel, next to the first entry, and press Enter.

```

CA-Deliver ---- Report Detail Historical Data --- Row 00001 of 00010
Command ==>                                     Scroll ==> PAGE

Report Id ---> TRJOB01-R01  Job ---> TRJOB01    Jobid ---> JOB07400
Generation ---> +0

                                User Data
Sel Hdn      Distid Bid  Bsn G Station Date Time (Lines Pages)
0000002513 D27MGR D902B1 013 R05.PR2 11/16/1999 08:35 1564 300
                                B&D 11/16/1999 09:46 CHERYL
                                COURIER 11/16/1999 10:14 JIM
                                DROPOFF 11/16/1999 09:47 EVELYN
                                SHREDDER 11/17/1999 10:48 BILL
0000002876 D27DIR                                PRINTR5 11/16/1999 07:37 1564 300
                                B&D 11/16/1999 08:36 TOM
                                COURIER 11/16/1999 09:46 MARY
                                DROPOFF 11/16/1999 10:47 JANE
                                SHREDDER 11/17/1999 09:48 RALPH
***** BOTTOM OF DATA *****

```

Fields

The fields on the Report Detail Historical Data panel are described in the following table.

Field	Description
Sel	Specifies a tabular command
Hdn	Indicates 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.
Distid	Indicates the recipient of the report
Bid	Indicates the bundle and bundle identifier
Bsn	Indicates sequential tagging and tracking number assigned by CA-Deliver that allows you to determine if the report belongs to more than one bundle
G	Indicates whether the report is grouped by a distribution identifier

Field	Description
Station	<p>Indicates tracking station names to which reports or bundles are posted</p> <p>Names are defined by the STNAMEn initialization parameter.</p> <p>The first entry is the printer identifier returned from JES.</p> <p>An asterisk indicates that the report is to be printed.</p>
Date	Indicates the date when the report is posted at the station
Time	Indicates the time when the report is posted at the station
User Data (Lines/Pages)	Indicates number of lines and pages 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 created and queued for printing
- The date and time when the bundle was queued for printing

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, do the following:

1. Enter **B** on the command line of 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.
    
```

2. Press Enter to display the Bundle Selection List panel, which contains a complete list of bundle identifiers.

```

CA-Deliver ----- Bundle Selection List -----
Command ==>                                     Scroll ==> PAGE

Sel Bundle Id      -- Last Changed -- User      Description
==> *              *                *          *
  APBUNDL1         08/31/1999 09:00:04 GJONES   ACCOUNTS PAYABLE REPORTS
  SABUNDL2         06/09/1999 09:42:23 GJONES   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 for APBUNDL1 ---- Row 00001 of 00002
Command ==>                                     Scroll ==> PAGE

Sel Gen Jobname Jobid      Lines  Pages -- Print Queued --
+0 APBUNDL1 JOB07200      523    15 01/13/2000 15:34:30
-1 APBUNDL1 JOB02339      562    16 01/12/2000 09:46:48
*****          ***** BOTTOM OF DATA *****
    
```

Fields

The fields on the Bundle Historical Data panel are described in the following table.

Field	Description
Sel	Specifies tabular command
Gen	Shows generation (24-hour period starting at TIME initialization parameter) in which the bundle was executed and number that represents 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/Pages	Specifies the number of print lines and pages queued for the bundle
Print Queued	Specifies the date and time when 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 tracking number assigned by CA-Deliver
- The group distribution identifier
- The station to which the bundle is posted
- The date and time when the bundle was queued for printing
- The number of lines and pages printed at the station

To display detail historical data for a bundle, enter the Select tabular command **S** next to the first entry in the Sel column on the Bundle Historical Data panel, and press Enter.

```

CA-Deliver ----- Bundle Detail Historical Data --- 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  Distid  Report Id  G Station Date      Time      User Data
          0000002513 D27MGR  RM027A51-X1A  PRINTER1 01/15/2000 07:42 1564 300
          B&D      01/15/2000 09:46
          COURIER 01/15/2000 10:14 JIM
          DROPOFF 01/15/2000 09:47 EVELYN
          SHREDDER 01/16/2000 10:48 BILL
          0000002515 D27DIR  RMOD27A51-X1A  PRINTER1 01/15/2000 07:42 1564 300
          B&D      01/15/2000 08:36 TOM
          COURIER 01/15/2000 09:46 MARY
          DROPOFF 01/15/2000 10:47 JANE
          SHREDDER 01/16/2000 09:48 RALPH
***** BOTTOM OF DATA *****
    
```

Fields

The fields on the Bundle Detail Historical Data panel are described in the following table.

Field	Description
Sel	Specifies a tabular command
Hdn	Indicates 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.
Distid	Indicates the recipient of the bundle
Bid	Indicates the bundle and bundle identifier
Bsn	Indicates sequential tagging and tracking number assigned by CA-Deliver that allows you to determine if the report belongs to more than one bundle
G	Indicates whether the bundle is grouped by a distribution identifier

Field	Description
Station	Indicates the name of the tracking station to which reports or bundles are posted Names are defined by the STNAME n initialization parameter. The first entry is the printer identifier returned from JES. An asterisk indicates that the report is to be printed.
Date	Indicates the date when the bundle is posted at the station
Time	Indicates the time when the bundle is posted at the station
User Data (Lines/Pages)	Indicates number of lines and pages printed at the station

Archiving and Reprinting CA-Deliver Reports With CA-View

This chapter explains how to archive CA-Deliver reports to CA-View.

You can 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 other SYSOUT archived in CA-View. After reading this chapter, you will be able to archive and reprint CA-Deliver reports with CA-View.

For more information about archiving CA-Deliver reports to CA-View, see the *CA-View System Reference Guide* and the *CA-View Online User's Guide*. Details about reprinting CA-Deliver reports in CA-View are presented in the *CA-View Online User's Guide*.

Important! We recommend that you archive your CA-Deliver reports to ensure that they are available when needed.

Archiving Reports to CA-View

You can use CA-Deliver to archive reports to the CA-View database in either of the following 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 to 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 (in conjunction with initialization parameter ARCH*n*)

Note: ARCH*n* is used by default if you do not specify a value in the Arch field on the Report Definition Attributes panel.

The Arch field is described in the section [Using the Report Definition Attributes Panel](#) in the chapter “Defining Basic Reports.” The ARCH and ARCH*n* initialization parameters are described in the *CA-View System Reference Guide*.

Getting ACIF Data to CA-View

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:

- Assign a distribution identifier (for example, ACIF) to the report by entering an asterisk in the Banner field on the Report Definition Attributes panel to specify that start/end banner pages will **not** be added to the ACIF report, class (for example, CLASS=2), destination (for example, DEST=FSS1), and other relevant attributes for the report to be subsequently coordinated and used by the SARFSS started task.
- 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. (In this case, you cannot browse this report, since it is never indexed by SARFSS.)
- Use the archive copy destined for the SARFSS started task rather than 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.

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 CA-Deliver database.

You must delete five job names, ten distribution identifiers, and two bundle identifiers from your test CA-Deliver database. The following sections specify the items you must delete and explain the steps required to delete them.

Note: You may need to delete more or less items, depending on how you used your test database for the tutorials presented in this guide.

Deleting Job Names From Your Test Database

You must delete the following job names from the test database:

- TRJOB01
- TRJOB02
- U90526
- RECJOB01
- U50500

To delete these job names, do the following:

1. On the command line of the Primary Selection Menu panel, enter **J**, and press Enter to display the Job Selection List panel, which contains a complete list of job names.

- Enter **D** in the Sel column next to each job name you want to delete, as shown in the following illustration:

```

CA-Deliver ----- Job Selection List -----
Command ==>                                     Scroll ==> PAGE

Sel Jobname      -- Last Changed -- User      Description
==> *            *          *          *
D  RECJOB01      03/07/1994 08:59:33 GJONES  SALES RESULTS 1994
D  TRJOB01       03/16/1994 13:21:17 GJONES  EDIT OF ACCOUNTING DATA
D  TRJOB02       04/22/1994 12:19:19 GJONES  UPDATE ACCOUNTS PAYABL
D  U50500        03/17/1994 16:59:28 GJONES  QUARTERLY SALES
D  U90526        06/20/1994 17:50:13 GJONES  QUARTERLY SALES
***** BOTTOM OF DATA *****
    
```

Note: When you delete job names, all associated report information you entered is also deleted.

- Press Enter to display the Confirm Delete panel for the first job.

```

CA-Deliver ----- Confirm Delete -----
Command ==>

Job Name: RECJOB01

Instructions:

  Press ENTER key to confirm delete request.

  Enter END command to cancel delete request.
    
```

- Press Enter to delete the first name from your test CA-Deliver database and display the Confirm Delete panel for the next name you marked.
- 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 ----- Job deleted
Command ==>                                     Scroll ==> PAGE

Sel Jobname      -- Last Changed -- User      Description
==> *            *          *          *
***** BOTTOM OF DATA *****
    
```

- Press PF4 or PF16 to display the Primary Selection Menu panel.

Deleting Distribution Identifiers From Your Test Database

You must delete the following distribution identifiers from the test database:

- D27SYSP4
- D27PROD
- D29ACCT
- D29AP
- D30SMG01
- D30SMG02
- D30SMG03
- D01VPRES
- D01PRES
- D10MRKT

To delete these distribution identifiers, do the following:

1. On the command line of the Primary Selection Menu panel, enter **D**, and press Enter to display the Distribution Selection List panel, which contains a complete list of distribution identifiers.
2. Enter **D** in the Sel column next to each distribution identifier you want to delete, as shown in the following illustration, and press Enter.

```

CA-Deliver ----- Distribution Selection List -----
Command ==>                                     Scroll ==> PAGE

Sel Distid      -- Last Changed -- User      Line 1      List
==> *           *                *          *          *
D   D01PRES     01/04/1993 09:17:45 N27USR   DEPT 01 - PRESIDENT
D   D01VPRES    01/04/1993 09:33:29 N27USR   DEPT 01 - VICE PRESIDENT
D   D10MRKT     07/14/1994 06:39:38 GJONES   DEPT 10 - MARKETING
D   D27PROD     12/14/1993 12:32:38 HFINN    DEPT 27 - PRODUCTION SUP
D   D27SYSP4    05/05/1994 14:50:05 GJONES   DEPT 27 - SYS PROG (GEOR
D   D29ACCT     12/03/1993 11:56:49 N27USR   DEPT 29 - ACCOUNTANT
D   D29AP       08/31/1993 13:31:20 HFINN    DEPT 29 - ACCOUNTS PAYAB
D   D30SMG01    07/15/1994 06:59:59 GJONES   DEPT 30 - SALES MANAGER
D   D30SMG02    07/15/1994 07:15:29 GJONES   DEPT 30 - SALES MANAGER
D   D30SMG03    07/15/1994 07:24:19 GJONES   DEPT 30 - SALES MANAGER
***** BOTTOM OF DATA *****

```

The Confirm Delete panel for the first Distid is displayed, as shown in the following illustration:

```
CA-Deliver ----- Confirm Delete -----  
Command ==>  
  
Distribution Identifier: D01PRES  
  
Instructions:  
    Press ENTER key to confirm delete request.  
    Enter END command to cancel delete request.
```

3. Press Enter to delete the first Distid from your test CA-Deliver database and to display the Confirm Delete panel for the next Distid you marked.
4. Repeat Step 3 until all Distids are deleted.

```
CA-Deliver ----- Distribution Selection List -- Distribution id deleted  
Command ==>                                     Scroll ==> PAGE  
  
Sel Distid          -- Last Changed -- User   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

You must delete the following bundle identifiers from the test database:

- APBUNDL1
- SABUNDL2

To delete these bundle identifiers, do the following:

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.
2. Enter **D** in the Sel column next to each bundle identifier you want to delete, as shown in the following illustration, and press Enter.

```

CA-Deliver ----- Bundle Selection List -----
Command ==>                                     Scroll ==> PAGE

Sel Bundle Id      -- Last Changed --  User      Description
==> *              *                *         *
  D APBUNDL1        06/09/1994 09:00:04 GJONES    ACCOUNTS PAYABLE REPORTS
  D SABUNDL2        06/09/1994 09:42:23 GJONES    SALES DATA REPORTS
*****          ***** BOTTOM OF DATA *****

```

The Confirm Delete panel for the first bundle identifier is displayed, as shown in the following illustration:

```

CA-Deliver ----- Confirm Delete -----
Command ==>

Bundle Identifier: APBUNDL1

Instructions:

  Press ENTER key to confirm delete request.

  Enter END command to cancel delete request.

```

3. Press Enter to delete the first bundle identifier from your test CA-Deliver database and display the Confirm Delete panel for the next bundle identifier you marked.
4. Repeat Step 3 until all bundle identifiers are deleted.

```
CA-Deliver ----- Bundle Selection List ----- Bundle id deleted
Command ==>                                     Scroll ==> PAGE

Sel Bundle Id          -- Last Changed -- User      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.

Displaying and Deleting Elements in the CA-Deliver Database

This chapter describes the Display commands and the Browse commands, and explains how to use these commands to locate, display, and delete elements in the CA-Deliver database, including the following:

- How to use the Display commands on the Display Selection panel
- How to use the Browse commands on the Browse panel
- How to use browse labels to mark records you reference often
- How to display, browse, and delete banner pages in the database
- How to display, browse, and delete printer setup members in the database
- How to display, browse, and delete online panels in the database

Display Command

The Display command is used to display and delete (but not change) banner pages, printer setup members, and online panels in the CA-Deliver database.

You enter the Display command on the Primary Selection Menu panel, however, the Display command is **not** shown in the list of commands you can use in this menu.

Display Selection Panel

The Display Selection panel displays a list of banner pages, printer setup members, or online panels that are located in the CA-Deliver database.

```

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
    
```

You can enter the following commands on the Display Selection panel:

Display Command	Description
BANNERS	Displays a list of banner page members that you can browse or delete in the CA-Deliver database Valid entries are B, BAN, and BANNER.
PRSETS	Displays a list of printer setup members that you can browse or delete in the CA-Deliver database Valid entries are P, PR, and PRSET.
PANELS	Displays a list of online panel members that you can browse or delete in the CA-Deliver database Valid entries are O, PAN, PANEL.
END	Saves changes you have made on the panel, terminates the CA-Deliver operation you are currently performing, and returns you to the previous panel

Command Stacking

You can stack the DISPLAY command on the command line of the Primary Selection Menu panel with other commands shown on the Display Selection panel.

Example

```
DISPLAY PR
```

Displays a complete list of printer setup members in you CA-Deliver database

When you enter this command stack on the command line of the Primary Selection Menu panel, a complete list of printer setup members in your CA-Deliver database is displayed.

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 moveable tab that marks a specific record in a member you have displayed and are browsing. You 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 of the following:

- A label must be preceded by a period.
- A label can have from 1–7 characters.
- You can specify more than one label per record.
- You can override a label by creating a new 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 you can use to move around in a member are described later in this chapter.

Browse Commands

The Browse panel displays when you enter the BANNERS, PRSETS, or PANELS command on the command line of the Display Selection panel. The following table describes the commands you can enter on the command line of the Browse panel.

Browse Command	Description
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 by the scroll field
FIND	Finds and displays the next instance of a character string in a member When a string is found, it is highlighted and the cursor is placed at the first character.

Browse Command	Description
HEX	<p>Displays data in a member in hexadecimal format underneath standard EBCDIC format</p> <p>Hexadecimal data is shown vertically; insert a dash separator to improve legibility.</p> <p>HEX Turns on hexadecimal format</p> <p>HEX OFF Turns off hexadecimal format</p> <p>Example of hexadecimal data:</p> <pre> ----- ABCDEF - 0123456EBCDIC CCCCCC464FFFFFFFCCCCC 1234560000123456523493 ----- </pre> <p>The first record of hexadecimal data contains the left digits of the two-digit hexadecimal representation of the EBCDIC characters.</p> <p>The second record contains the right digits.</p>
LEFT	Scrolls left a distance defined by the scroll field
LOCATE	<p>Goes to and displays a specific record or page in a member</p> <p>Valid entries are LOCATE, LOC, and L.</p> <p>Syntax: LOCATE <i>parameter</i></p> <p>Where <i>parameter</i> is one of the following:</p> <ul style="list-style-type: none"> ■ 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 <p>Examples:</p> <p>LOC 450 Goes directly to record 450</p> <p>LOC +20 Goes down 20 records</p> <p>LOC .ERR Goes to a record labeled .ERR</p>
RESET	<p>Turns off the display of column numbers</p> <p>Valid entries are RESET and RES.</p>

Browse Command	Description
RFIND	Searches for the same text string you specified when you last issued the FIND command
RIGHT	Scrolls right the distance specified by the scroll field
UP	Scrolls up the distance specified by the scroll field

FIND Browse Command

Use the FIND browse command to find and display an instance of a character string in a member you are browsing.

Syntax

`FIND parameter-string col-delimiter indicator limit-parameter`

Where *parameter-string* represents one of the parameters described in the following table.

Parameter	Description
Asterisk (*)	Searches for the same string used when you last issued the FIND command Example: <code>FIND *</code> 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 for which you want to search in either single or double quotation marks. Example: <code>FIND "go to"</code> The example, <code>FIND '*'</code> , finds an asterisk.
Hexadecimal string	Searches for a string of hexadecimal characters enclosed in single or double quotation marks Example: <code>FIND X'00'</code> You must specify only hexadecimal characters (0-9 and A-F), and you must specify an even number of characters. You can specify the hexadecimal identifier X before or after the hexadecimal string of characters (enclosed in quotation marks). Example: <code>FIND "FFFF"X</code>

Browse Command	Description																																	
Picture string	<p>Searches for a character or string represented by one or more of the following placeholders:</p> <table> <tr> <td>=</td> <td>equal sign</td> <td>any single character</td> </tr> <tr> <td>@</td> <td>at sign</td> <td>alphabetic characters</td> </tr> <tr> <td>#</td> <td>pound sign</td> <td>numeric characters</td> </tr> <tr> <td>\$</td> <td>dollar sign</td> <td>special characters</td> </tr> <tr> <td>¬</td> <td>logical not</td> <td>non-blank characters</td> </tr> <tr> <td>.</td> <td>period</td> <td>invalid display characters</td> </tr> <tr> <td>-</td> <td>minus sign</td> <td>non-numeric characters</td> </tr> <tr> <td><</td> <td>less than</td> <td>lowercase alphabetic characters</td> </tr> <tr> <td>></td> <td>greater than</td> <td>uppercase alphabetic characters</td> </tr> </table> <p>You can specify the picture string identifier P before or after the picture string of characters (enclosed in quotation marks).</p> <p>Examples:</p> <table> <tr> <td>FIND P'. '</td> <td>Finds any invalid display character</td> </tr> <tr> <td>FIND P'###'</td> <td>Finds 123 as well as other 3-digit numbers, but not A23</td> </tr> <tr> <td>FIND '@1'P</td> <td>Finds A1, B1, but not A2, B3, and so on</td> </tr> </table>	=	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	FIND P'. '	Finds any invalid display character	FIND P'###'	Finds 123 as well as other 3-digit numbers, but not A23	FIND '@1'P	Finds A1, B1, but not A2, B3, and so on
=	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																																
FIND P'. '	Finds any invalid display character																																	
FIND P'###'	Finds 123 as well as other 3-digit numbers, but not A23																																	
FIND '@1'P	Finds A1, B1, but not A2, B3, and so on																																	
Text string	<p>Represents a text string that is not case-sensitive</p> <p>You can specify the text string identifier T before or after the text string of characters (enclosed in quotation marks).</p> <p>Example:</p> <table> <tr> <td>FIND T'Total'</td> <td>Finds the text strings TOTAL, Total, and total, as well as TOTALS, Totals, and totals</td> </tr> </table> <p>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.)</p> <p>This version of FIND performs a caseless search, that is, it ignores differences in case, treating 'This', 'THIS', and 'this' the same.</p>	FIND T'Total'	Finds the text strings TOTAL, Total, and total, as well as TOTALS, Totals, and totals																															
FIND T'Total'	Finds the text strings TOTAL, Total, and total, as well as TOTALS, Totals, and totals																																	

Browse Command	Description
Character string	<p>A case-sensitive text string</p> <p>You can specify the text string identifier C before or after the text string of characters (enclosed in quotation marks).</p> <p>This version of FIND performs a case sensitive search, that is, it recognizes differences in case, treating 'This', 'THIS', and 'this' as three different text strings.</p> <p>Example:</p> <pre>FIND C'Total'</pre> <p>Finds only the text strings Total and Totals, but not TOTAL, total, TOTALS, totals</p>

Where *col-delimiter* 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.

Action	Description
Do not specify column numbers	<p>Searches every complete record in the member</p> <p>Example:</p> <pre>FIND DATE</pre> <p>Finds all instances of 'DATE' in all records</p>
Specify a single column number	<p>Searches only that single column in the member</p> <p>Example:</p> <pre>FIND P'=@1' 1</pre> <p>Finds labels .A1, .B1, .C1, and so on, in the first column of every record</p>
Specify a couple of column numbers, separated by a space	<p>Searches only those columns in the member between those you specified (inclusive)</p> <p>Example:</p> <pre>FIND '.'P 73 80</pre> <p>Finds invalid characters only in columns 73-80</p>

Where *indicator* 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, as summarized in the following table.

Parameter	Description
NEXT	<p>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)</p> <p>Example: FIND A365 NEXT</p> <p>You do not need to specify NEXT, as text is searched in this direction by default.</p>
PREV	<p>Finds the previous instance of the text string you specify, either from the current cursor position (if the cursor is shown in the contents of a member) or from the top of the member (if the cursor is not shown in the contents of a member)</p> <p>Example: FIND 2365 PREV</p>
FIRST	<p>Finds the first instance of the text string you specify, from the first record in a member until the text string is found, or until the last record in the member is reached</p> <p>Example:</p> <p>FIND 'P' 73 80 FIRST Finds the first instance of an invalid display character between columns 73 and 80</p>
LAST	<p>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</p> <p>Example:</p> <p>FIND 'P' LAST Finds the last instance of an invalid display character anywhere</p>
ALL	<p>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</p> <p>Example:</p> <p>FIND 'P' ALL Finds all instances of an invalid display character in all columns</p> <p>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.</p>

Where *limit-parameter* represents an optional parameter that allows you to restrict a search to only specific characters at the beginning or end of a word, any characters within a word, or only a complete word, as summarized in the following table.

Parameter	Description
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 the following when using the FIND browse command:

- You can specify FIND command parameters (parameter strings, column delimiters, indicators, and limit parameters, which are described in this chapter) in any order.
- You can separate FIND command parameters by either spaces or commas.
- You can enclose text strings that you want to find in single quotation marks or double quotation marks.
- Always enclose text strings that contain special characters, such as an asterisk or a blank, in quotation marks.

Examples

In the following examples (which are all functionally equivalent), the user wants to find the suffix TION between columns 20 and 40 (inclusive):

```
F TION PREV SUFFIX 20 40
FIND PREV SUFFIX "TION" 20 40
F 'TION' 20,40 SUFFIX PREV
FIND 20,40,PREV,SUFFIX,TION
F PREV 20 40 'TION' SUFFIX
```

RFIND Browse Command

You can use the RFIND browse command to search for the same text string you specified when you last issued the FIND browse command.

Syntax

RFIND

Displaying and Deleting 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 ==>

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 00013  
Command ==>                               Scroll ==> PAGE  
  
Sel  Name      ----- Last Modified -----  
BDFLTB 07/17/1999 19:58:36 RMOBLOAD  
BDFLTD 07/17/1999 19:58:36 RMOBLOAD  
BDFLTR 07/17/1999 19:58:36 RMOBLOAD  
BNDLMAN1 07/17/1995 19:58:36 RMOBLOAD  
CNTLREC1 07/17/1999 19:58:36 RMOBLOAD  
CNTLREC2 07/17/1999 19:58:36 RMOBLOAD  
DEFAULT 07/17/1999 19:58:36 RMOBLOAD  
DEFAULT1 07/17/1999 19:58:36 RMOBLOAD  
SEPARATE 07/17/1999 19:58:36 RMOBLOAD  
TSTBNDL 07/25/1999 13:17:52 TSTBLOAD  
TSTDIST 07/25/1999 19:17:52 TSTBLOAD  
TSTRPT 07/25/1999 19:17:52 TSTBLOAD  
***** BOTTOM OF DATA *****
```

- 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 00013
Command ==>                                         Scroll ==> PAGE

Sel  Name      ----- Last Modified -----
S    BDFLTB    07/17/1999 19:58:36 RMOBLOAD
     BDFLTD    07/17/1999 19:58:36 RMOBLOAD
     BDFLTR    07/17/1999 19:58:36 RMOBLOAD
     BNDLMAN1  07/17/1995 19:58:36 RMOBLOAD
     CNTLREC1  07/17/1999 19:58:36 RMOBLOAD
     CNTLREC2  07/17/1999 19:58:36 RMOBLOAD
     DEFAULT   07/17/1999 19:58:36 RMOBLOAD
     DEFAULT1  07/17/1999 19:58:36 RMOBLOAD
     SEPARATE  07/17/1999 19:58:36 RMOBLOAD
     TSTBNDL   07/25/1999 13:17:52 TSTBLOAD
     TSTDIST   07/25/1999 19:17:52 TSTBLOAD
     TSTRPT    07/25/1999 19:17:52 TSTBLOAD
***** BOTTOM OF DATA *****
    
```

- Press Enter to display the contents of banner page BDFLTB.
Now you can browse the contents of BDFLTB with any browse command you choose.
- When you are finished browsing, enter **END** on the command line, and press Enter to refresh the Banner Page Selection List panel.
- 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 00013
Command ==>                                         Scroll ==> PAGE

Sel  Name      ----- Last Modified -----
D    BDFLTB    07/17/1999 19:58:36 RMOBLOAD
     BDFLTD    07/17/1999 19:58:36 RMOBLOAD
     BDFLTR    07/17/1999 19:58:36 RMOBLOAD
     BNDLMAN1  07/17/1995 19:58:36 RMOBLOAD
     CNTLREC1  07/17/1999 19:58:36 RMOBLOAD
     CNTLREC2  07/17/1999 19:58:36 RMOBLOAD
     DEFAULT   07/17/1999 19:58:36 RMOBLOAD
     DEFAULT1  07/17/1999 19:58:36 RMOBLOAD
     SEPARATE  07/17/1999 19:58:36 RMOBLOAD
     TSTBNDL   07/25/1999 13:17:52 TSTBLOAD
     TSTDIST   07/25/1999 19:17:52 TSTBLOAD
     TSTRPT    07/25/1999 19:17:52 TSTBLOAD
***** BOTTOM OF DATA *****
    
```

9. Press Enter to display the Confirm Delete panel.

```
CA-Deliver ----- Confirm Delete -----  
Command ==>  
  
BANNER PAGE: BDFLTB  
  
Instructions:  
  
    Press ENTER key to confirm delete request.  
  
    Enter END command to cancel delete request.
```

10. Press Enter to delete the banner page member BDFLTB from the CA-Deliver 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.

Displaying and Deleting 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 ==>  
  
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      07/17/1999 19:42:50 RMOPLOAD
HEX5A     07/17/1999 19:42:50 RMOPLOAD
PME       07/17/1999 19:42:50 RMOPLOAD
PRNTSETP  07/17/1999 19:42:50 RMOPLOAD
XEROX     07/17/1999 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       07/17/1999 19:42:50 RMOPLoad
   HEX5A      07/17/1999 19:42:50 RMOPLoad
   PME        07/17/1999 19:42:50 RMOPLoad
   PRNTSETP   07/17/1999 19:42:50 RMOPLoad
   XEROX      07/17/1999 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 refresh 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          07/17/1999 19:42:50 RMOPLoad
HEX5A         07/17/1999 19:42:50 RMOPLoad
D  PME        07/17/1999 19:42:50 RMOPLoad
   PRNTSETP   07/17/1999 19:42:50 RMOPLoad
   XEROX      07/17/1999 19:42:50 RMOPLoad
***** BOTTOM OF DATA *****
```

9. Press Enter to display the Confirm Delete panel.

```

CA-Deliver ----- Confirm Delete -----
Command ==>

PRSET MEMBER: PME

INSTRUCTIONS:

    Press ENTER key to confirm delete request.

    Enter END command to cancel delete request.
    
```

10. Press Enter to delete the printer setup member PME from the CA-Deliver 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.

Displaying and Deleting 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 ==>

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 Online Panel Selection List panel.

```

CA-Deliver ----- Online Panel Selection List --- Row 00001 of 00363
Command ==>                                         Scroll ==> PAGE

Sel Name      ----- Last Modified -----
RMOJCLB 06/12/2000 18:10:55 RMOOLOAD
RMOJCLO 06/12/2000 18:10:55 RMOOLOAD
RMOPTISDB 05/24/2000 15:19:44 RMOOLOAD
RMOPTISV2 05/24/2000 15:19:44 RMOOLOAD
RMOPTB 05/24/2000 15:19:44 RMOOLOAD
RMOPTBA1 05/24/2000 15:19:44 RMOOLOAD
RMOPTBA2 05/24/2000 15:19:44 RMOOLOAD
RMOPTBB1 05/24/2000 15:19:44 RMOOLOAD
RMOPTBC1 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDA 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDB 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDC 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDD 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDE 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDF 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDG 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDH 05/24/2000 15:19:44 RMOOLOAD
    
```

- 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 00363
Command ==>                                         Scroll ==> PAGE

Sel Name      ----- Last Modified -----
S RMOJCLB 06/12/2000 18:10:55 RMOOLOAD
RMOJCLO 06/12/2000 18:10:55 RMOOLOAD
RMOPTISDB 05/24/2000 15:19:44 RMOOLOAD
RMOPTISV2 05/24/2000 15:19:44 RMOOLOAD
RMOPTB 05/24/2000 15:19:44 RMOOLOAD
RMOPTBA1 05/24/2000 15:19:44 RMOOLOAD
RMOPTBA2 05/24/2000 15:19:44 RMOOLOAD
RMOPTBB1 05/24/2000 15:19:44 RMOOLOAD
RMOPTBC1 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDA 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDB 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDC 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDD 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDE 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDF 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDG 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDH 05/24/2000 15:19:44 RMOOLOAD
    
```

- 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.
- When you are finished browsing, enter **END** on the command line, and press Enter to display the Online Panel Selection List panel.

- 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 00363
Command ==>                                           Scroll ==> PAGE

Sel Name      ----- Last Modified -----
RMOJCLB 06/12/2000 18:10:55 RMOOLOAD
D RMOJCLO 06/12/2000 18:10:55 RMOOLOAD
RMOPTISDB 05/24/2000 15:19:44 RMOOLOAD
RMOPTISV2 05/24/2000 15:19:44 RMOOLOAD
RMOPTB 05/24/2000 15:19:44 RMOOLOAD
RMOPTBA1 05/24/2000 15:19:44 RMOOLOAD
RMOPTBA2 05/24/2000 15:19:44 RMOOLOAD
RMOPTBB1 05/24/2000 15:19:44 RMOOLOAD
RMOPTBC1 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDA 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDB 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDC 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDD 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDE 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDF 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDG 05/24/2000 15:19:44 RMOOLOAD
RMOPTBDH 05/24/2000 15:19:44 RMOOLOAD
    
```

- Press Enter to display the Confirm Delete panel.

```

CA-Deliver ----- Confirm Delete -----
Command ==>

PANEL: RMOJCLO

INSTRUCTIONS:

    Press ENTER key to confirm delete request.
    Enter END command to cancel delete request.
    
```

- Press Enter to delete the online panel member RMOJCLO from the CA-Deliver database and display the Online Panel Selection List panel.
- Enter **RETURN** on the command line, and press Enter to display the Primary Selection Menu panel.

Defining a Distribution List

This chapter describes how to define and use a distribution list with CA-Deliver, including the following:

- How to define a distribution list
- How to assign a distribution list to a report
- How to specify overrides for distribution list
- How to display reports for a distribution identifier
- How to display distribution identifiers associated distribution list
- Recommendations for using distribution lists

What Is a Distribution List?

In CA-Deliver, a *distribution list* contains a list of recipients, known as distribution identifiers, who may receive distributed 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 and/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 will automatically change the distribution and viewing requirements of the associated reports.

The name of a distribution list is similar to a distribution identifier but is specifically 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 should establish and adhere to a convention for naming distribution lists and distribution identifiers to avoid inconsistency and confusion among users.

Example

The following is an example of a distribution list:

```

CA-Deliver -- Distribution List for D29LIST ----- Row 00001 of 00007
Command ==>                                     Scroll ==> PAGE

  Desc  ==> DEPT 29 LIST

Distribution Specifications:
Sel Grp  Distid  Copies  Dest          Writer  Out  Rview  Reprt  Del
D29ACCT  1          1          1          Y      Y      Y      Y      N
D29MGR   1          1          1          Y      Y      Y      Y      N
D29AP    1          1          1          Y      Y      Y      Y      N
D29SMG01 1          1          1          N      Y      Y      Y      N
D29SMG02 1          1          1          N      Y      Y      Y      N
D29SMG03 1          1          1          N      Y      Y      Y      N
D29PRES  1          1          1          N      N      Y      Y      N
***** BOTTOM OF DATA *****
    
```

The following table describes the fields on the Distribution List panel:

Fields	Description
Desc	Used to enter the 1- to 24-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 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.
Distid	Identifies the report recipient
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.

Fields	Description
Dest	Specifies a destination where the report is to be printed Blank Accepts the value specified in the JCL Blank is the default.
Writer	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
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)
Rview	Specifies whether the recipient has restricted viewing privileges for the report within CA-View which provides viewing through nonsecured 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 report from archive or alter the archive status within CA-View Valid values are as follows: Y Permits recipients to delete the report from archive or alter the archive status N Prevents recipients from deleting the report or altering the archive status

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 may 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 will be distributed to the contents of the distribution list.

Example

The example below references distribution list, D29LIST, in a report:

```

CA-Deliver ----- Report Definition Attributes ----- Row 00001 of 00002
Command ==>                                           Scroll ==> PAGE

  ID   ---> U90586-R01   Job     ---> U90586       Type  ---> STACK
  Step ---> SALESTEP    Procstep --->                               DD   ---> SALESRPT

  Distribution Specifications:
  Sel Grp  Distid  Copies  Dest      Writer  Out  Rview  Reprt  Del
          FICHE   1      LOCAL    FICHE   Y   Y      Y      Y
          D29LIST 1                               Y   N      Y      Y
***** BOTTOM OF DATA *****
    
```

Overriding Distribution List Specifications

You can override distribution list specifications in two ways:

- A distribution identifier in the report distribution specifications will override the same distribution identifier in a distribution list.
- The destination, writer, output indicator, view restriction indicator, reprint indicator, and delete indicator specified in the report distribution specifications may override corresponding specifications in the distribution list.

Example

To illustrate these overrides, assume that we have a report, U90586-R05, which has the same recipients as several other U90586 reports except the distribution requirements are slightly different. The recipients are contained in a distribution list named D29LIST. The U90586-R05 report should only be printed 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 could redefine the hold list of recipients to the report and avoid using the distribution list, but two simple overrides would 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 report distribution specifications would appear as follows:

```

CA-Deliver ----- Report Definition Attributes ----- Row 00001 of 00002
Command ==>>> Scroll ==>> PAGE

  ID    ---> U90586-R05   Job      ---> U90586   Type   ---> STACK
  Step  --->              Procstep --->              DD     --->

Distribution Specifications:
Sel Grp  Distid  Copies  Dest          Writer  Out  Rview  Reprt  Del
        FICHE   1      LOCAL        FICHE   Y    Y      Y      Y
        D29LIST 1          LOCAL        N    N      Y      Y
        D29PRES 1      LOCAL        Y    N      Y      N
***** BOTTOM OF DATA *****
    
```

The following table identifies the overrides that occur when destination, writer, output indicator, view restriction indicator, reprint indicator, and delete indicator 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
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 output is not tracked
Out=N	Out=T	No printed output is produced and output is not tracked
Out=N	Out=Y	No printed output is produced and output is not tracked
Out=T	Out=N	No printed output is produced and 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

Report Distribution Specification	Distribution List Specification	Resulting Specification
Out=Y	Out=N	No printed output is produced and 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
Rview=N	Rview=N	User can access the report in CA-View with any logical view
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

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 delete indicator of Y to use the specification in the distribution list.

Defining and Using a Distribution List

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

The following list summarizes the steps you follow to define a distribution list in CA-Deliver. From the Primary Selection Menu panel you do the following:

- [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](#)

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 reports will be sent to the same personnel.

Your manager asks you to add a job to CA-Deliver 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 will ensure that the reports are reviewed
 - Accounts payable
 - The accountant
 - 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-DocView.

Note: For simplicity, a distribution list will be 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 will assign) followed by **L**.

```

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.
    
```

2. Press Enter to display the Distribution List panel for your new distribution list.

```

CA-Deliver -- Distribution List for D55LIST ----- Row 00001 of 00010
Command ==>                                     Scroll ==> PAGE

Desc ==>

Distribution Specifications:
Sel Grp  Distid  Copies  Dest                Writer  Out Rview Reprt Del

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

- 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 for D55LIST ----- Row 00001 of 00010
Command ==>                               Scroll ==> PAGE

  Desc  ==> DEPARTMENT 55 LIST

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer  Out Rview Reprt Del
      FICHE                               FICHE   Y
      D55PROD                               Y
      D55AP                                 Y
      D55ACCT                               Y
      D55VPRES                              N

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

```

- 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.

Step 2: Define a Job

The second step is to define the job that will create the CA-Deliver reports. The name of the job is **U90955**.

- On the command line of the Primary Selection Menu panel, enter **J**, a space, then the job name **U90955**.

```

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.

```

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

```

CA-Deliver ----- Reports for Job: U90955 ----- Row 00001 of 00010
Command ==>                                     Scroll ==> PAGE

Desc ==>
Prevrn ==>

Sel Stepname Procstep DDname  Report Id  Type  Prevrn

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

Note: Both PREVRUN fields shown on the Reports for Job panel work only when CA-Rerun or 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 Stepnames 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 **SALES QUARTERLY REPORTS**.
2. Enter **SALESTP1** under Stepname.
3. Enter **SALESRPT** under DDname.
4. Enter **U90955-R01** under Report Id.

- Enter the remaining two reports in the same fashion 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
  Prevrn ==>

Sel Stepname Procstep DDname  Report Id  Type  Prevrn
  SALESTP1      SALESRPT U90955-R01
  SALESTP2      SALESRPT U90955-R02
  SALESTP3      SALESRPT U90955-R03

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

- 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  Type  --->
  Step  ---> SALESTP1   Procstep --->          DD    ---> SALESRPT

  Desc  ==>

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

Any lowercase characters you entered on the panel are automatically converted to uppercase.

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   Type  ---->
Step ----> SALESTP1   Procstep ---->                               DD   ----> SALESRPT

Desc ==> SALES QUARTERLY REPORT 1

Attributes:
ARCH ==> 1           BANNER ==>           BURST ==>
CC   ==>           CLASS ==>           COPIES ==>
FCB  ==>           FORM  ==>           FLASH ==> ( , )
LATE ==> 08:00      OPTCDJ ==>          UCS   ==>
FORMDF ==>         PAGEDF ==>          PRMODE ==>
PRSET ==>         PRTY  ==>
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.
    
```

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

```

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

  ID   ---> U90955-R01  Job    ---> U90955   Type  --->
  Step ---> SALESTP1   Procstep --->                DD    ---> SALESRPT

  Distribution Specifications:
  Sel Grp  Distid  Copies  Dest                Writer  Out Rview Reprt Del

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

- Enter the distribution list, **D55LIST**, in the Distid field, and press Enter.

```

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

  ID   ---> U90955-R01  Job    ---> U90955   Type  --->
  Step ---> SALESTP1   Procstep --->                DD    ---> SALESRPT

  Distribution Specifications:
  Sel Grp  Distid  Copies  Dest                Writer  Out Rview Reprt Del
           D55LIST

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

Leave the remaining fields on the subpanel blank to specify the default settings as follows:

Field	Default Setting
GRP	Keeps this report separate from the previous report
COPIES	Prints only one copy of the report per distribution identifier
DEST	Uses the report destination specified in the JCL
OUT	Creates printed output for the recipient and tracks the report
RVIEW	Allows others to select any view of this report and to use the view command
REPR	Allows others to reprint this report
DEL	Allows others to delete this report

- 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 will appear on the banner pages that encapsulate the report.

- 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, will be displayed. Again, follow Steps 1-7 to add the archival specification, late time, and distribution specification for reports U90955-R02 and U90955-R03.

- 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 CA-Deliver database.

- 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 CA-Deliver database. You have completed your definitions to the CA-Deliver database.

Step 5: Change a Distribution List

Somehow, the Sales President was overlooked and needs to view the reports through CA-DocView just like the Vice President. To allow the Sales President, D55PRES, to view the reports, do the following:

1. On the command line of the Primary Selection Menu panel, enter **D**, a space, then **D55LIST** (which is the distribution list you assigned).

Note: The L operand on the D command is only needed when creating a new distribution list and may be omitted when displaying an existing distribution list.

```
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.
```

2. Press Enter to display the Distribution List panel for your distribution list.

```
CA-Deliver -- Distribution List for D55LIST ----- Row 00001 of 00005
Command ==>                                     Scroll ==> PAGE

Desc ==> DEPARTMENT 55 LIST

Distribution Specifications:
Sel Grp  Distid  Copies  Dest      Writer  Out  Rview  Reprt  Del
        FICHE          Y      N      Y      Y
        D55PROD        Y      N      Y      Y
        D55AP          Y      N      Y      Y
        D55ACCT        Y      N      Y      Y
        D55VPRES       N      N      Y      Y
***** BOTTOM OF DATA *****
```

- Enter the **R** tabular command next to **D55VPRES** under Sel, and press Enter to repeat the line.

```

CA-Deliver -- Distribution List for D55LIST ----- Row 00001 of 00005
Command ==>                                     Scroll ==> PAGE

  Desc  ==> DEPARTMENT 55 LIST

Distribution Specifications:
Sel Grp Distid Copies Dest          Writer Out Rview Reprt Del
      FICHE                               FICHE  Y   N   Y   Y
      D55PROD                             Y   N   Y   Y
      D55AP                                Y   N   Y   Y
      D55ACCT                              Y   N   Y   Y
R      D55VPRES                             N   N   Y   Y
***** BOTTOM OF DATA *****
    
```

- The Distribution List panel now displays two D55VPRES entries. Change the second distribution identifier **D55VPRES** to **D55PRES**.

```

CA-Deliver -- Distribution List for D55LIST ----- Row 00001 of 00006
Command ==>                                     Scroll ==> PAGE

  Desc  ==> DEPARTMENT 55 LIST

Distribution Specifications:
Sel Grp Distid Copies Dest          Writer Out Rview Reprt Del
      FICHE                               FICHE  Y   N   Y   Y
      D55PROD                             Y   N   Y   Y
      D55AP                                Y   N   Y   Y
      D55ACCT                              Y   N   Y   Y
      D55VPRES                             N   N   Y   Y
      D55PRES                             N   N   Y   Y
***** BOTTOM OF DATA *****
    
```

- Enter **END** on the command line, and press Enter.

- On the Distribution Data for Distid panel, enter the Destination information (for example, a printer class), then enter distribution to delivery information, such as a floor and office number.

```

CA-Deliver - Distribution Data for Distid: D55PRES5 -----
Command ==>

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

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

```

- Enter **END** on the command line to save the distribution information.

The message DISTRIBUTION LIST SAVED displays in the short message of the Distribution List panel.

By changing the distribution list, the sales president will have 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 techniques you can use to review the setup of your CA-Deliver reports.

Displaying Distribution XREF for a Report

- 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.

- Enter **X** in the Sel column to the left of the report identifiers you want 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 *****
    
```

- Press Enter to display the Distribution Xref for Report panel.

```

CA-Deliver - Distribution Xref for Report: U90955-R01-- Row 00001 of 00006
Command ==>                                     Scroll ==> PAGE

Sel G Distid  Bundle Id  C Copies  Dest      Writer  Out  Rview  Reprt  Del
==> *         *          *         *         *         *     *   *     *     *
      D55ACCT          Y          N          Y      Y      Y
      D55AP            Y          N          Y      Y      Y
      D55PRES          N          N          Y      Y      Y
      D55PROD          Y          N          Y      Y      Y
      D55VPRES         N          N          Y      Y      Y
      FICHE            FICHE     Y          N          Y      Y
***** BOTTOM OF DATA *****
    
```

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, then **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.
    
```

2. Press Enter to display the Distribution Selection List panel for distribution identifiers and distribution lists starting with D55, then 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 -----
Command ==>                               Scroll ==> PAGE

Sel Distid  -- Last Changed -- User   Line 1          List
==> D55*    *          *          *          *
D55ACCT    12/03/1999 11:56:49 N27USR  DEPT 55 - ACCOUNTANT
D55AP      12/15/1999 12:25:54 HFINN   DEPT 55 - ACCOUNT PAYABL
D55FILE    08/31/1999 13:19:23 HFINN   DEPT 55 - FILE ROOM
SR D55LIST  04/30/2000 18:25:15 HFINN   DEPT 55 - DIST GROUP    YES
D55PRES    01/03/2000 09:17:45 N27USR  DEPT 55 - PRESIDENT
D55PROD    12/15/1999 12:32:38 HFINN   DEPT 55 - PRODUCTION SUP
D55SYSP1   01/03/2000 09:46:09 N27USR  DEPT 55 - SYS PROG (BRIA
D55SYSP2   12/03/1999 13:56:47 N27USR  DEPT 55 - SYS PROG (MARY
D55SYSP3   11/10/1999 16:16:05 HFINN   DEPT 55 - SYS PROG (BILL
D55SYSP4   03/05/2000 14:50:05 GJONES  DEPT 5 - SYS PROG (GEOR
D55VPRES   01/03/2000 09:33:29 N27USR  DEPT 55 - VICE PRESIDENT
*****          BOTTOM OF DATA *****
    
```

3. Press Enter to display the Reports for Distid panel.

```
CA-Deliver -- Reports for Distid: D55LIST ----- Row 00001 of 00003
Command ==>                                     Scroll ==> PAGE

Sel Report Id  Copies Dest           Writer  Out  Rview Reprt Del
U90955-R01    1
U90955-R02    1
U90955-R03    1
***** BOTTOM OF DATA *****
```

The distribution specifications for the displayed reports can now be modified by overtyping the desired fields. Also, a distribution identifier or distribution list can be removed from a report by deleting the desired entry, or added to a new report by merely inserting a new line and entering the report identifier and distribution specifications. When you press Enter, the changes are saved in the CA-Deliver 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, then **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.
    
```

2. Press Enter to display the Distribution Selection List panel for distribution identifiers and distribution lists starting with D55, then enter **SL** under Sel to the left of distribution identifier D55ACCT.

```

CA-Deliver ----- Distribution Selection List -----
Command ==>                                     Scroll ==> PAGE

Sel Distid      -- Last Changed -- User      Line 1          List
==> D55*        *          *          *          *
SL D55ACCT      12/03/1999 11:56:49 N27USR    DEPT 55 - ACCOUNTANT
D55AP           12/15/1999 12:25:54 HFINN    DEPT 55 - ACCOUNT PAYABL
D55FILE         08/31/1999 13:19:23 HFINN    DEPT 55 - FILE ROOM
D55LIST         04/30/2000 18:25:15 HFINN    DEPT 55 - DIST GROUP      YES
D55PRES         01/03/2000 09:17:45 N27USR    DEPT 55 - PRESIDENT
D55PROD         12/15/1999 12:32:38 HFINN    DEPT 55 - PRODUCTION SUP
D55SYSP1        01/03/2000 09:46:09 N27USR    DEPT 55 - SYS PROG (BRIA
D55SYSP2        12/03/1999 13:56:47 N27USR    DEPT 55 - SYS PROG (MARY
D55SYSP3        11/10/1999 16:16:05 HFINN    DEPT 55 - SYS PROG (BILL
D55SYSP4        03/05/2000 14:50:05 GJONES    DEPT 5 - SYS PROG (GEOR
D55VPRES        01/03/2000 09:33:29 N27USR    DEPT 55 - VICE PRESIDENT
***** BOTTOM OF DATA *****
    
```

3. Press Enter to display the Distribution Lists with Distid panel.

```
CA-Deliver - Distribution Lists with Distid: D55ACCT - Row 00001 of 00001
Command ==>                               Scroll ==> PAGE

      Distid
Sel List Copies Dest           Writer Out Rview Reprt Del
D55LIST 1
***** BOTTOM OF DATA *****
```

The distribution specifications for the distribution lists can now be modified by overtyping the values in the desired fields. Also, a distribution identifier can be removed from a distribution list by deleting the desired entry, or added to another distribution list by insert a new line and entering the distribution list and distribution specifications. When you press Enter, the changes are saved in the CA-Deliver database.

From this panel, you can also display the reports that the distribution list is defined to by entering the **SR** tabular command under Sel.

CA-Deliver Panels and Subpanels

This appendix describes CA-Deliver panels and subpanels and includes the following information:

- A description of each CA-Deliver panel or subpanel
- How to access each panel or subpanel
- A description of the fields on each panel or subpanel

Primary Selection Menu Panel

The Primary Selection Menu panel is the first panel that displays when you enter the system's online facility. You start most of the CA-Deliver 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.
```

Command	Description
B	<p>Accesses the Bundle Selection List or the Bundle Definition Attributes panel directly</p> <p>The syntax of the B command is as follows:</p> <p><i>B id</i></p> <p>Optionally, you can specify a specific or generic identifier on the B command.</p> <p>If a specific identifier is entered, the Bundle Definition Attributes panel is accessed directly.</p> <p>If the operand is omitted or a generic identifier is entered, the Bundle Selection List panel displays.</p> <p>The generic identifier is used to refine the list of display data.</p>
D	<p>Used to access the Distribution Selection List or the Distribution Data directly</p> <p>The syntax of the D command is as follows:</p> <p><i>D id [LIST / L]</i></p> <p>Optionally, you can specify a specific or generic identifier on the D command.</p> <p>If a specific identifier is entered, the Distribution Data or Distribution List panel is accessed directly.</p> <p>If the operand is omitted or a generic identifier is entered, the Distribution Selection List panel displays.</p> <p>The generic identifier is used to refine the list of display data.</p> <p>Enter the LIST or L operand to create a new distribution list. This operand can be omitted if an existing distribution list is being accessed.</p>

Command	Description
DISPLAY	<p>Provides access to banner page data, PRSET data, and online panels</p> <p>The syntax of the DISPLAY command is as follows:</p> <p>DISPLAY [<i>B/O/P</i>]</p> <p>Where:</p> <p><i>B</i> Displays a list of banner page members</p> <p><i>O</i> Displays a list of online panel members</p> <p><i>P</i> Displays a list of PRSET members</p> <p>If omitted, a selection menu is presented to the user with these choices.</p> <p>Valid entries are DI, DISP, and DISPLAY.</p>
J	<p>Used to access the Job Selection List or the Reports for Job panel directly</p> <p>The syntax of the J command is as follows:</p> <p>J <i>id</i></p> <p>Optionally, you can specify a specific or generic identifier on the J command.</p> <p>If a specific identifier is entered, the Reports for Job panel is accessed directly.</p> <p>If the operand is omitted or a generic identifier is entered, the Job Selection List panel displays.</p> <p>The generic identifier is used to refine the list of display data.</p>
R	<p>Used to access the Report Selection List or the Report Definition Attributes panel directly</p> <p>The syntax of the R command is as follows:</p> <p>R <i>id</i></p> <p>Optionally, you can specify a specific or generic identifier on the R command.</p> <p>If a specific identifier is entered, the Report Definition Attributes panel is accessed directly.</p> <p>If the operand is omitted or a generic identifier is entered, the Report Selection List panel displays.</p> <p>The generic identifier is used to refine the list of display data.</p>

Command	Description
X	Exits the CA-Deliver online facility You can enter the X command as well as 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 -----
Command ==>                                     Scroll ==> PAGE

Sel Distid      -- Last Changed --  User   Line 1  List
==> *           *           *           *           *
D01PRES         01/03/1994 09:17:45 N27USR  DEPT 01 - PRESIDENT
D01VPRES        01/03/1994 09:33:29 N27USR  DEPT 01 - VICE PRESIDENT
D25FILE         08/31/1994 13:19:23 HFINN   DEPT 25 - FILE ROOM
D25LIB          08/26/1994 16:46:29 HFINN   DEPT 25 - FILE ROOM
D25MGR          11/10/1993 16:16:18 HFINN   DEPT 25 - MANAGER
D25PER1         12/02/1993 16:06:18 TEST    DEPT 25 - CLERK LEVEL 1
D25PER2         08/26/1994 16:46:38 HFINN   DEPT 25 - CLERK LEVEL 2
D27FILE         12/15/1993 12:33:13 HFINN   DEPT 27 - FILE ROOM
D27LIST         11/30/1999 18:25:15 HFINN   DEPT 27 - DIST GROUP YES
D27MGR          12/15/1993 12:25:54 HFINN   DEPT 27 - MANAGER
D27PROD         12/15/1993 12:32:38 HFINN   DEPT 27 - PRODUCTION SUP
D27SYSP1        01/03/1994 09:46:09 N27USR  DEPT 27 - SYS PROG (BRIA
D27SYSP2        12/03/1993 13:56:47 N27USR  DEPT 27 - SYS PROG (MARY
D27SYSP3        11/10/1993 16:16:05 HFINN   DEPT 27 - SYS PROG (BILL
D27SYSP4        05/05/1994 14:50:05 GJONES  DEPT 27 - SYS PROG (GEOR
D28FILE         01/03/1994 09:44:57 N27USR  DEPT 28 - FILE ROOM
D28LIB          12/15/1993 13:55:52 N27USR  DEPT 28 - LIBRARIAN
D28MGR          12/15/1993 13:55:52 N27USR  DEPT 28 - MANAGER
D29ACCT         12/03/1993 11:56:49 N27USR  DEPT 29 - ACCOUNTANT

```

Fields

The following table describes the fields on the Distribution Selection List panel:

Field	Description
Sel	Used to enter tabular commands in this column
Distid	Displays the distribution identifier
Last Changed	Displays the date and time when the distribution identifier was last modified, and the user or job that last modified the distribution identifier

Field	Description
Line 1	Displays the first address line of a distribution identifier or the description field of a distribution list
List	Indicates whether the distribution identifier has an associated list of distribution specifications

Input Commands

The following table describes the input commands available on the Distribution Selection List panel:

Command	Description
LOCATE	<p>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</p> <p>For sorted lists, the LOCATE command traverses the list based on the first or only sort field.</p> <p>Valid entries are L, LOC, or LOCATE.</p>
REDISP	<p>Redisplays (or refreshes) a selection list with current information</p> <p>Since definition and active data can be concurrently updated and added by the CA-Deliver start task, batch jobs, and online users, data displayed on a selection list may become outdated. Recent changes and newly added data are obtained when the REDISP command is entered.</p> <p>The syntax of the REDISP command is as follows: REDISP [ON / OFF]</p> <p>Where:</p> <p>ON Indicates that the display is to be refreshed automatically when the Enter key is pressed</p> <p>OFF Indicates that the REDISP command must be specifically entered to refresh the display</p> <p>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.</p> <p>For sorted lists, you must specifically enter the REDISP command to refresh the display. Valid entries are RED, REDISP, REF, and REFRESH.</p>

Command	Description															
SELECT	<p>Selects the distribution identifier or distribution list you specify as the operand of the command for display</p> <p>The syntax of the SELECT command is as follows:</p> <p><i>SELECT id [LIST / L]</i></p> <p>If the specified distribution identifier or distribution list does not exist, an entry will be created for it.</p> <p>To create a new distribution list, you must specify the LIST or L operand.</p> <p>Valid entries are S, SEL, and SELECT.</p>															
SORT	<p>Sorts the selection list display by distribution identifier, date/time entry was last changed, the user who last changed entry, or address line</p> <p>Up to two fields can be sorted.</p> <p>The syntax of the SORT command is as follows:</p> <p><i>SORT field1 field2</i></p> <p>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.</p> <table border="1"> <thead> <tr> <th>Field Name</th> <th>Sort Sequence</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DISTID</td> <td>Ascending</td> <td>Sorts by distribution identifier You can enter DISTID as DID or D.</td> </tr> <tr> <td>CHANGED</td> <td>Descending</td> <td>Sorts by date/time last changed You can enter CHANGED as CHA or C.</td> </tr> <tr> <td>USER</td> <td>Ascending</td> <td>Sorts by user/job that last changed entry You can enter USER as U.</td> </tr> <tr> <td>LINE</td> <td>Ascending</td> <td>Sorts by address line You can also specify LINE as DESC.</td> </tr> </tbody> </table>	Field Name	Sort Sequence	Description	DISTID	Ascending	Sorts by distribution identifier You can enter DISTID as DID or D.	CHANGED	Descending	Sorts by date/time last changed You can enter CHANGED as CHA or C.	USER	Ascending	Sorts by user/job that last changed entry You can enter USER as U.	LINE	Ascending	Sorts by address line You can also specify LINE as DESC.
Field Name	Sort Sequence	Description														
DISTID	Ascending	Sorts by distribution identifier You can enter DISTID as DID or D.														
CHANGED	Descending	Sorts by date/time last changed You can enter CHANGED as CHA or C.														
USER	Ascending	Sorts by user/job that last changed entry You can enter USER as U.														
LINE	Ascending	Sorts by address line You can also specify LINE as DESC.														

Command	Description
SORT (Continued)	<p>To sort the selection list by address line, enter the command: Command ==> sort line</p> <p>To sort the selection list by user who last changed entry and date/time entry was last changed, enter the command: Command ==> sort user cha</p> <p>Once 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.</p> <p>If the SORT command is entered by itself without a field, the standard dynamic list, which is sequenced by distribution identifier, displays.</p>

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.

Code	Description
D	Deletes the distribution identifier and all references to it
R	<p>Renames the distribution identifier and change all references to it to the new name</p> <p>The new name must be entered immediately to the right of the distribution identifier.</p>
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 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 will be set to asterisk (*) except for distribution identifier which will be filled with the identifier from the D primary command (if specified). When the filtering fields are changed, the selection list redisplay with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria will be 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:
 - Create a new distribution identifier or select an existing distribution identifier via 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   ==>
Writer ==>
Class  ==>
CA-Connect Node ==> NO ( YES or NO )

Distribute to:
==> PRODUCTION SUPERVISOR
==> DEPARTMAENT 27
==>
==>
==>
==>
==>
==>

```

Fields

The following table describes the fields on the Distribution Data panel:

Field	Description
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 external writer can be overridden by the Report Distribution Specifications or distribution list distribution specifications. If an external writer is not specified on the Distribution Data panel or in the respective distribution specifications, the report will be 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
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 table describes the input commands available on the Description Data panel:

Command	Description
CANCEL	Terminates the current display and displays the previous panel; changed data will not be 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 will be distributed based on the distribution specifications in the distribution list.

- To display the Distribution List panel, do **one** of the following:
 - Create a new 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 for D27LIST ----- Row 00001 of 00007
Command ==>                                         Scroll ==> PAGE

Desc ==>

Distribution Specifications:
Sel Grp Distid Copies Dest           Writer Out Rview Reprt Del
D27MGR  1                               Y   Y   Y   N
D27FILE 1                               Y   Y   Y   N
D27PROD 1                               Y   Y   Y   N
D27SYSP1 1                             N   Y   Y   Y
D27SYSP2 1                             N   Y   Y   Y
D27SYSP3 1                             N   Y   Y   Y
D27SYSP4 1                             N   Y   Y   Y
***** BOTTOM OF DATA *****
    
```

Fields

The following table describes the fields on the Distribution List panel:

Field	Description
Desc	Used to enter the 1- to 24-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
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.
Distid	Identifies the report recipient
Copies	Specifies the number of printed copies of the report to be sent to the recipient * Accepts the value specified in the JCL
Dest	Specifies a destination where the report is to be printed Blank Accepts the value specified in the JCL Blank is the default.

Field	Description
Writer	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
Out	Specifies whether output is to be printed, tracked, or untracked for view only Values are as follows: T Creates tracked, view only output Y Creates printed output N Creates view only output (not printed or tracked)
Rview	Specifies whether the recipient has restricted viewing privileges for the report within CA-View which provides viewing through nonsecured 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 report from archive or alter the archive status within CA-View Values are as follows: Y Permits recipients to delete the report from archive or alter the archive status N Prevents recipients from deleting the report or altering the archive status

Input Commands The following table describes the input commands available on the Report Distribution Specifications subpanel:

Command	Description
CANCEL	<p>Terminates the current display and displays the previous panel; changed data will not be saved</p> <p>Valid entries are CAN and CANCEL.</p>
COPY	<p>Copies the distribution specifications from another distribution identifier or report identifier</p> <p>The syntax of the command is as follows:</p> <p><i>COPY id [REPORT]</i></p> <p>Where:</p> <p><i>id</i> Specifies the distribution list or report identifier from which the specifications are to be copied</p> <p><i>REPORT</i> Indicates that the distribution specifications are being copied from a report definition</p> <p>You can enter REPORT as RID or R.</p> <p>If omitted, the distribution specifications will be copied from a distribution list.</p> <p>You must also specify the A or B selection code to identify the destination of the copy.</p>
FIND	<p>Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel</p> <p>The syntax of the FIND command is as follows:</p> <p><i>FIND string column [FIRST NEXT LAST PREV] NOT</i></p> <p>You can enter the FIND command as F.</p> <p>The string specification identifies the search data.</p> <p>The string will be matched against data starting in the first character of the search column.</p> <p>The FIND command will not locate data that is embedded within the column.</p>

Command	Description																														
FIND (Continued)	<p>If the string contains special characters, enclose the string within quotation marks.</p> <p>The column name specification identifies the field that is to be searched. If omitted, the distribution identifier (DISTID) column will be searched.</p> <p>The following columns can be searched:</p> <table border="1"> <thead> <tr> <th>Column</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DISTID</td> <td>Distribution Identifier If a column name is not specified, DISTID is assumed. You can enter DISTID as DID or D.</td> </tr> <tr> <td>GROUP</td> <td>Group indicator You can enter GROUP as GRP.</td> </tr> <tr> <td>COPIES</td> <td>Output copies</td> </tr> <tr> <td>DEST</td> <td>Report destination</td> </tr> <tr> <td>WRITER</td> <td>External writer You can enter WRITER as WTR.</td> </tr> <tr> <td>OUT</td> <td>Output indicator</td> </tr> <tr> <td>RVIEW</td> <td>CA-View logical view restriction indicator</td> </tr> <tr> <td>REPRT</td> <td>CA-View reprint restriction</td> </tr> <tr> <td>DEL</td> <td>CA-View delete restriction</td> </tr> </tbody> </table> <p>The location specification identifies the origin and direction of the search. If omitted, the search will begin with the row at the top of the current display. The location specifications are as follows:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FIRST</td> <td>Starts the search at the beginning of the table and proceeds forward to the end of the table</td> </tr> <tr> <td>NEXT</td> <td>Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table</td> </tr> <tr> <td>LAST</td> <td>Starts the search at the end of the table and proceeds backward to the beginning of the table</td> </tr> <tr> <td>PREV</td> <td>Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table</td> </tr> </tbody> </table>	Column	Description	DISTID	Distribution Identifier If a column name is not specified, DISTID is assumed. You can enter DISTID as DID or D.	GROUP	Group indicator You can enter GROUP as GRP.	COPIES	Output copies	DEST	Report destination	WRITER	External writer You can enter WRITER as WTR.	OUT	Output indicator	RVIEW	CA-View logical view restriction indicator	REPRT	CA-View reprint restriction	DEL	CA-View delete restriction	Location	Description	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
Column	Description																														
DISTID	Distribution Identifier If a column name is not specified, DISTID is assumed. You can enter DISTID as DID or D.																														
GROUP	Group indicator You can enter GROUP as GRP.																														
COPIES	Output copies																														
DEST	Report destination																														
WRITER	External writer You can enter WRITER as WTR.																														
OUT	Output indicator																														
RVIEW	CA-View logical view restriction indicator																														
REPRT	CA-View reprint restriction																														
DEL	CA-View delete restriction																														
Location	Description																														
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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																														

Command	Description
FIND (Continued)	<p>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.</p> <p>For more information about the FIND command, see Input Commands in the chapter “CA-Deliver Basics.”</p>
RFIND	<p>Locates the next occurrence of a previously issued FIND command</p> <p>If another occurrence is not found, a not found message displays. Normally, PF5 and PF17 are defined as the RFIND key.</p>
SORT	<p>Sorts the distribution specifications by distribution identifier</p> <p>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.</p> <p>Note: The list of distribution specifications will be saved in the new sequence after sorting. If this sequence is not what you want, enter the CANCEL command to ignore the changes.</p>

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 will not occur.

The Distribution List 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 “CA-Deliver Basics.”

Code	Description
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: D01PRES ----- Row 00001 of 00004
Command ==>                                         Scroll ==> PAGE

Sel Report Id      Distid  C Copies  Dest      Writer   Out Rview Reprt Del
==> *              *        *         *         *        *   *     *     *
    U59868-R01     D01LIST    1         *         *        N   N     Y     Y
    U90526-R03                1         *         *        N   N     Y     Y
    U90526-R04                1         *         *        N   N     Y     Y
    U90725-R01                A 1         *         *        Y   N     Y     Y
***** BOTTOM OF DATA *****

```

- The Report Xref for Distid panel provides a secondary display that shows additional report information. The Report Xref for Distid panel will toggle between the primary and secondary displays when the **RIGHT** or **LEFT** input command is entered or **PF** key is pressed.

```

CA-Deliver - Report Xref for Distid: D01PRES ----- Row 00001 of 00004
Command ==>                                         Scroll ==> PAGE

Sel Report Id      Jobname  Stepname  Procstep  DDname
==> *              *         *         *         *
    U59868-R01     U59868   STEP1     OUTPUT    REPORTS
    U90526-R03     U90526   SALESTEP  REPORTS
    U90526-R04     U90526   SALESTEP  REPORTS
    U59868-R01     U59868   FINASTEP  REPORTF
***** BOTTOM OF DATA *****

```

Fields

The following table describes the fields on the Report Xref for Distid panel:

Field	Description
Sel	Used to enter tabular commands in this column
Report Id	Displays the report identifier
Distid List	Identifies the distribution list name that the distribution identifier is defined to
C	Identifies the distribution SYSOUT class used for printing the report If SYSOUT class is blank, the report will be 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.
Dest	Identifies the distribution destination where the report is to be printed If blank, the report will be routed to the destination in the JCL used to create the report.
Writer	Identifies the distribution external writer to process the report If blank, the report will be processed by the external writer referenced in the JCL used to create the report.
Out	Indicates whether output is to be printed, tracked, or untracked for view only Values are as follows: T Creates tracked, view only output Y Creates printed output N Creates view only output (not printed or tracked)

Field	Description
Rview	<p>Indicates whether the recipient has restricted viewing privileges for the report within CA-View which provides viewing through nonsecured logical views and prevents the use of the VIEW command</p> <p>Values are as follows:</p> <p>Y Recipient can only access the report with an nonsecured logical view and is prohibited from using the VIEW command</p> <p>N Recipient can access the report through any logical view and can use the VIEW command to create or change the logical view</p>
Reprt	<p>Indicates whether the recipient can reprint the report within CA-View</p> <p>Values are as follows:</p> <p>Y Recipient can reprint the report</p> <p>N Recipient is not allowed to reprint the report</p>
Del	<p>Indicates whether the recipients can delete the report from archive or alter the archive status within CA-View</p> <p>Values are as follows:</p> <p>Y Permits recipients to delete the report from archive or alter the archive status</p> <p>N Prevents recipients from deleting the report or altering the archive status</p>
Out	
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

Input Commands The following table describes the input commands available on the Report Xref for Distid panel:

Command	Description									
LEFT	Toggles the display between the primary and secondary display of the Report Xref for Distid panel									
LOCATE	<p>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</p> <p>For sorted lists, the LOCATE command traverses the list based on the first or only sort field.</p> <p>Valid entries are L, LOC, and LOCATE.</p>									
RIGHT	Toggles the display between the primary and secondary display of the Report Xref for Distid panel									
SELECT	<p>Selects the report identifier you specify as the operand of the command for display</p> <p>If the specified report identifier does not exist, an error message displays.</p> <p>Valid entries are S, SEL, and SELECT.</p>									
SORT	<p>Sorts the selection list display by report identifier or jobname</p> <p>The syntax of the SORT command is as follows:</p> <p>SORT field</p> <p>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.</p> <table border="1"> <thead> <tr> <th>Field Name</th> <th>Sort Sequence</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>REPORT</td> <td>Ascending</td> <td>Sorts by report identifier You can enter REPORT as RID or R.</td> </tr> <tr> <td>JOBNAME</td> <td>Ascending</td> <td>Sorts by job name You can enter JOBNAME as JOB or J.</td> </tr> </tbody> </table>	Field Name	Sort Sequence	Description	REPORT	Ascending	Sorts by report identifier You can enter REPORT as RID or R.	JOBNAME	Ascending	Sorts by job name You can enter JOBNAME as JOB or J.
Field Name	Sort Sequence	Description								
REPORT	Ascending	Sorts by report identifier You can enter REPORT as RID or R.								
JOBNAME	Ascending	Sorts by job name You can enter JOBNAME as JOB or J.								

Command	Description
SORT (Continued)	To sort the selection list by job name, enter the command: Command ==> sort job Once 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 will not occur.

Code	Description
S	Displays and/or 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 will be set to asterisk (*). When the filtering fields are changed, the selection list redisplay with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria will be 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 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: D01PRES ----- Row 00001 of 00003
Command ==>                                     Scroll ==> PAGE

Sel Report Id  Copies Dest           Writer  Out  Rview Reprt Del
U90526-R03    1
U90526-R04    1
U90725-R01    1
***** BOTTOM OF DATA *****
    
```

Fields

The following table describes the fields on the Reports for Distid panel:

Field	Description
Sel	Used to enter tabular commands in this column
Report Id	Identifies the report identifier
Copies	Specifies the number of copies to be sent to the recipient Enter an asterisk to accept the value in the JCL.
Dest	Specifies a destination where the report is to be printed Blank Accepts the value specified in the JCL Blank is the default.
Writer	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

Field	Description
Out	<p>Specifies whether output is to be printed, tracked, or untracked for view only</p> <p>Values are as follows:</p> <p>T Creates tracked, view only output</p> <p>Y Creates printed output</p> <p>N Creates view only output (not printed or tracked)</p>
Rview	<p>Specifies whether the recipient has restricted viewing privileges for the report within CA-View which provides viewing through nonsecured logical views and prevents the use of the VIEW command</p> <p>Valid values are Y, N, and Blank.</p>
Reprt	<p>Specifies whether recipients can reprint the report within CA-View</p> <p>Valid values are Y, N, and Blank.</p>
Del	<p>Specifies whether recipients can delete the report from archive or alter the archive status within CA-View</p> <p>Values are as follows:</p> <p>Y Permits recipients to delete the report from archive or alter the archive status</p> <p>N Prevents recipients from deleting the report or altering the archive status</p>

Input Commands The following table describes the input commands available on the Reports for Distid panel:

Command	Description																		
CANCEL	<p>Terminates the current display and displays the previous panel; input data will not be saved</p> <p>Valid entries are CAN and CANCEL.</p>																		
FIND	<p>Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel</p> <p>The syntax of the FIND command is as follows:</p> <p><code>FIND <i>string column</i> [FIRST NEXT LAST PREV] NOT</code></p> <p>You can enter the FIND command as F.</p> <p>The string specification identifies the search data. The string will be matched against data starting in the first character of the search column.</p> <p>The FIND command will not locate data that is embedded within the column.</p> <p>If the string contains special characters, enclose the string within quotation marks.</p> <p>The column name specification identifies the field that is to be searched. If omitted, the report identifier (REPORT) field will be searched. The following columns can be searched:</p> <table border="1"> <thead> <tr> <th>Column</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>REPORT</td> <td>Report identifier You can enter REPORT as RID or R. If a column name is not specified, REPORT is assumed.</td> </tr> <tr> <td>COPIES</td> <td>Output copies</td> </tr> <tr> <td>DEST</td> <td>Report destination</td> </tr> <tr> <td>WRITER</td> <td>External writer You can enter WRITER as WTR.</td> </tr> <tr> <td>OUT</td> <td>Output indicator</td> </tr> <tr> <td>RVIEW</td> <td>CA-View logical view restriction indicator</td> </tr> <tr> <td>REPR</td> <td>CA-View reprint restriction</td> </tr> <tr> <td>DEL</td> <td>CA-View delete restriction</td> </tr> </tbody> </table>	Column	Description	REPORT	Report identifier You can enter REPORT as RID or R. If a column name is not specified, REPORT is assumed.	COPIES	Output copies	DEST	Report destination	WRITER	External writer You can enter WRITER as WTR.	OUT	Output indicator	RVIEW	CA-View logical view restriction indicator	REPR	CA-View reprint restriction	DEL	CA-View delete restriction
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REPR	CA-View reprint restriction																		
DEL	CA-View delete restriction																		

Command	Description										
FIND <i>(Continued)</i>	<p>The location specification identifies the origin and direction of the search. If omitted, the search will begin with the row at the top of the current display. The location specifications are as follows:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FIRST</td> <td>Starts the search at the beginning of the table and proceeds forward to the end of the table</td> </tr> <tr> <td>NEXT</td> <td>Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table</td> </tr> <tr> <td>LAST</td> <td>Starts the search at the end of the table and proceeds backward to the beginning of the table</td> </tr> <tr> <td>PREV</td> <td>Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table</td> </tr> </tbody> </table> <p>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.</p> <p>For more information about the FIND command, see Input Commands in the chapter "CA-Deliver Basics."</p>	Location	Description	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
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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										
RFIND	<p>Locates the next occurrence of a previously issued FIND command</p> <p>If another occurrence is not found, a NOT FOUND message displays. Normally, PF5 and PF17 are defined as the RFIND key.</p>										
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 will not occur.

The Reports for Distid 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 “CA-Deliver Basics.”

Code	Description
S	Displays the distribution data for the distribution identifier

Distribution Lists with Distid Panel

The Distribution Lists with Distid panel is used to add or update the distribution requirements for a distribution identifier within a distribution list.

- To display the Distribution Lists with Distid panel, enter the **SL** tabular command in the selection code column of the Distribution Selection List panel, and press Enter.

```

CA-Deliver - Distribution Lists with Distid: D01PRES - Row 00001 of 00002
Command ==>                               Scroll ==> PAGE

      Distid
Sel List  Copies Dest           Writer  Out Rview Reprt Del
D01LIST  1                               N    N    Y    Y
PRESLIST 1                               N    N    Y    Y
***** BOTTOM OF DATA *****
    
```

Fields

The following table describes the fields on the Distribution Lists with Distid panel:

Field	Description
Sel	Used to enter tabular commands in this column
Distid List	Identifies the distribution list that the distribution identifier is defined to
Copies	Specifies the number of copies to be sent to the recipient Enter an asterisk to accept the value in the JCL.
Dest	Specifies a destination where the report is to be printed Blank Accepts the value specified in the JCL Blank is the default.
Writer	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
Out	Specifies whether output is to be printed, tracked, or untracked for view only Values are as follows: T Creates tracked, view only output Y Creates printed output N Creates view only output (not printed or tracked)
Rview	Specifies whether the recipient has restricted viewing privileges for the report within CA-View which provides viewing through nonsecured 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.

Field	Description
Del	<p>Specifies whether recipients can delete the report from archive or alter the archive status within CA-View</p> <p>Values are as follows:</p> <p>Y Permits recipients to delete the report from archive or alter the archive status</p> <p>N Prevents recipients from deleting the report or altering the archive status</p>

Input Commands

The following table describes the input commands available on the Distribution Lists with Distid panel:

Command	Description
CANCEL	<p>Terminates the current display and displays the previous panel; input data will not be saved</p> <p>Valid entries are CAN and CANCEL.</p>
FIND	<p>Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel</p> <p>The syntax of the FIND command is as follows:</p> <p><i>FIND string column [FIRST NEXT LAST PREV] NOT</i></p> <p>You can enter the FIND command as F.</p> <p>The string specification identifies the search data. The string will be matched against data starting in the first character of the search column.</p> <p>The FIND command will not locate data that is embedded within the column.</p> <p>If the string contains special characters, enclose the string within quotation marks.</p>

Command	Description																												
FIND (Continued)	<p>The column name specification identifies the field that is to be searched. If omitted, the distribution list (DISTID) column will be searched. The following columns can be searched:</p> <table border="1"> <thead> <tr> <th>Column</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DISTID</td> <td>Report identifier You can enter DISTID as DID or D. If a column name is not specified, DISTID is assumed.</td> </tr> <tr> <td>COPIES</td> <td>Output copies</td> </tr> <tr> <td>DEST</td> <td>Report destination</td> </tr> <tr> <td>WRITER</td> <td>External writer You can enter WRITER as WTR.</td> </tr> <tr> <td>OUT</td> <td>Output indicator</td> </tr> <tr> <td>RVIEW</td> <td>CA-View logical view restriction indicator</td> </tr> <tr> <td>REPRT</td> <td>CA-View reprint restriction</td> </tr> <tr> <td>DEL</td> <td>CA-View delete restriction</td> </tr> </tbody> </table> <p>The location specification identifies the origin and direction of the search. If omitted, the search will begin with the row at the top of the current display. The location specifications are as follows:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FIRST</td> <td>Starts the search at the beginning of the table and proceeds forward to the end of the table</td> </tr> <tr> <td>NEXT</td> <td>Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table</td> </tr> <tr> <td>LAST</td> <td>Starts the search at the end of the table and proceeds backward to the beginning of the table</td> </tr> <tr> <td>PREV</td> <td>Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table</td> </tr> </tbody> </table>	Column	Description	DISTID	Report identifier You can enter DISTID as DID or D. If a column name is not specified, DISTID is assumed.	COPIES	Output copies	DEST	Report destination	WRITER	External writer You can enter WRITER as WTR.	OUT	Output indicator	RVIEW	CA-View logical view restriction indicator	REPRT	CA-View reprint restriction	DEL	CA-View delete restriction	Location	Description	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
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Command	Description
FIND <i>(Continued)</i>	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. For more information about the FIND command, see Input Commands in the chapter "CA-Deliver Basics."
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.
SORT	Sorts the display by the name of the distribution list, in ascending order

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 will not occur.

The Distribution Lists with Distid 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 "CA-Deliver Basics."

Code	Description
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 -----
Command ==>                                     Scroll ==> PAGE

Sel Jobname      -- Last Changed -- User      Description
==> *            *          *          *
TRESQ001         09/29/1994 11:23:40 GROBER1   TRE QUARTERLY REPORTS
TRESR001         01/08/1992 11:19:54 GROBER1   TRE ON-REQUEST PRINT
TRESR002         01/08/1992 11:21:29 GROBER1   TRE ON-REQUEST PRINT
TRESR003         09/26/1994 11:13:45 GROBER1   SPECIAL RUN OF TRE6066
TRESR004         01/05/1993 08:21:52 GROBER1   TRE ON-REQUEST PRINT
TRESR005         01/25/1995 11:06:18 GROBER1   TRE ON-REQUEST PRINT
TRESSA01         01/25/1994 09:23:11 GROBER1   RENT/TRE COMPARISON
TRESW001         10/13/1994 10:18:58 GROBER1   TRE WEEKLY PRINT
TRESW003         10/10/1994 12:50:03 GROBER1   TRE WEEKLY PRINT
TRESW004         09/26/1994 10:55:25 GROBER1   TRE WEEKLY PRINT
TRESW005         06/16/1994 09:39:10 GROBER1   TRE WEEKLY PRINT
TRESW040         02/21/1994 10:56:52 GROBER1   TRE REGIONAL TRACKING
TRESY001         01/25/1994 09:03:46 GROBER1   YEARLY SALE HISTORY LOAD
TRESY003         01/18/1995 10:24:47 GROBER1   YEARLY SUMMARY REPORT
TRESY010         09/29/1994 11:23:21 GROBER1   TRE YEARLY REPORTS
TRJOB02         12/17/1996 17:22:27 DSTECK1   TELECOMM MTHEND REPORTS
TTAXCA01         03/01/1995 15:32:03 GROBER1   CALIFORNIA TAX RUNS
TTAXLD01         02/20/1992 10:27:52 GROBER1   EOM PROCESSING
TTAXM020         04/10/1995 15:28:27 CAYERS1   MTHLY SALES TAX RETURNS

```

Field

The following table describes the fields on the Distribution Selection List panel:

Field	Description
Sel	Used to enter tabular commands in this column
Jobname	Displays the job name
Last Changed	Displays the date and time when the distribution identifier was last modified, and the user or job that last modified the distribution identifier
Description	Displays the description defined to the job

Input Commands The following table describes the input commands available on the Job Selection List panel:

Command	Description
LOCATE	<p>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</p> <p>For sorted lists, the LOCATE command traverses the list based on the first or only sort field.</p> <p>Valid entries are L, LOC, and LOCATE.</p>
REDISP	<p>Redisplays, or refreshes, a selection list with current information</p> <p>Since definition and active data may be concurrently updated and added by the CA-Deliver start 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.</p> <p>The syntax of the REDISP command is as follows: REDISP [<i>ON/OFF</i>]</p> <p>Where:</p> <p><i>ON</i> Indicates that the display is to be refreshed automatically when the Enter key is pressed</p> <p><i>OFF</i> Indicates that the REDISP command must be specifically entered to refresh the display</p> <p>The <i>ON</i> and <i>OFF</i> parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.</p> <p>If the <i>ON/OFF</i> parameter is omitted, the display is refreshed without altering the current <i>ON/OFF</i> state.</p> <p>For sorted lists, you must specifically enter the REDISP command to refresh the display.</p> <p>Valid entries are RED, REDISP, REF, and REFRESH.</p>
SELECT	<p>Selects the job name you specify as the operand of the command for display</p> <p>If the specified job name does not exist, an entry will be created for it.</p> <p>Valid entries are S, SEL, and SELECT.</p>

Command	Description															
SORT	<p>Sorts the selection list display by job name, date/time entry was last changed, user who last changed entry, or description</p> <p>Up to two fields can be sorted.</p> <p>The syntax of the SORT command is as follows:</p> <p><i>SORT field1 field2</i></p> <p>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.</p> <table border="1"> <thead> <tr> <th>Field Name</th> <th>Sort Sequence</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Jobname</td> <td>Ascending</td> <td>Sorts by job name You can enter JOBNAME as JOB or J.</td> </tr> <tr> <td>Changed</td> <td>Descending</td> <td>Sorts by date/time last changed You can enter CHANGED as CHA or C.</td> </tr> <tr> <td>User</td> <td>Ascending</td> <td>Sorts by user/job that last changed entry You can enter USER as U.</td> </tr> <tr> <td>Desc</td> <td>Ascending</td> <td>Sorts by description</td> </tr> </tbody> </table> <p>To sort the selection list by description, enter the command: Command ==> sort desc</p> <p>To sort the selection list by user who last changed entry and date/time entry was last changed, enter the command: Command ==> sort user cha</p> <p>Once 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 line, LOCATE PROD scrolls the list to the entry or closest entry whose description is PROD.</p> <p>When entered by itself, without a field, SORT displays the standard dynamic list, which is sequenced by job name.</p>	Field Name	Sort Sequence	Description	Jobname	Ascending	Sorts by job name You can enter JOBNAME as JOB or J.	Changed	Descending	Sorts by date/time last changed You can enter CHANGED as CHA or C.	User	Ascending	Sorts by user/job that last changed entry You can enter USER as U.	Desc	Ascending	Sorts by description
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User	Ascending	Sorts by user/job that last changed entry You can enter USER as U.														
Desc	Ascending	Sorts by description														

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 will not occur.

Code	Description
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 the belong to specified steps
R	Renames the job name and its references within report definitions The new name must be entered 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 <i>WARNING! Use UF only as a last resort to clean up entries in a database since some entries may be left on the spool volumes.</i>

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 will be set to asterisk (*) except for job name which will be filled with the identifier from the J primary command (if specified). When the filtering fields are changed, the selection list redisplay with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria will be 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 00010
Command ==>                                         Scroll ==> PAGE

Desc   ==>
Prevrn ==>

Sel Stepname Procstep DDname  Report Id   Type   Prevrn

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

Fields

The following table describes the fields on the Reports for Job panel:

Field	Description
Desc	Used to enter the 1- to 24-character description of the job This field is optional.
Prevrn	Specifies one of the following: 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 PRVERUN initialization parameter Note: FLAG and DEL work only when the report is in CA-View or a bundle holding spool.
Sel	Used to enter tabular commands in this column

Field	Description
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
Report Id	Specifies the 1- to 12-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 Blank A basic report
Prevrn	Specifies one of the following: 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 will default to what was selected under Prevrn

Input Commands

The following table describes the input commands available on the Reports for Job panel:

Command	Description
CANCEL	Terminates the current display and displays the previous panel; changed data will not be saved Valid entries are CAN and CANCEL.

Command	Description
COPY	<p>Copies definition specifications from another job definition</p> <p>The syntax of the COPY command is as follows:</p> <p><i>COPY jobname from-string to-string</i></p> <p>Where:</p> <p><i>jobname</i> Identifies the job name from which the report specifications are to be copied</p> <p><i>from-string</i> Identifies a series of characters that is matched against the report identifier names being copied</p> <p>If the <i>from-string</i> characters are found in the report identifier name, the characters are replaced with the <i>to-string</i> characters to form a new report identifier name. The report definition data from the original report identifier name will be automatically copied to the new report identifier name excluding its bundle references.</p> <p>If the <i>from-string</i> characters are not found in the report identifier name or if the resulting report identifier name already exists, the report identifier is not changed and must be manually changed on the Reports for Job panel.</p> <p>The default for <i>from-string</i> is the name of the job being copied; the default for <i>to-string</i> is the name of the current job being displayed.</p> <p>If reports are being added into existing job data, you must specify the A or B selection code to identify the destination of the copy.</p>
FIND	<p>Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel</p> <p>The syntax of the FIND command is as follows:</p> <p><i>FIND string column [FIRST NEXT LAST PREV] NOT</i></p> <p>You can enter the FIND command as F.</p> <p>The string specification identifies the search data. The string will be matched against data starting in the first character of the search column.</p> <p>The FIND command will not locate data that is embedded within the column. If the string contains special characters, enclose the string within quotation marks. The string specification may be omitted when searching the Stepname, procstep name, and DDname fields.</p>

Command	Description																								
FIND <i>(Continued)</i>	<p>The column name specification identifies the field that is to be searched</p> <p>If omitted, the report identifier (REPORT) field will be searched. The following columns can be searched:</p> <table border="1"> <thead> <tr> <th>Column</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Stepname</td> <td>Step name You can enter Stepname as STEP.</td> </tr> <tr> <td>Procstep</td> <td>Procedure step name You can enter PROCSTEP as PROC.</td> </tr> <tr> <td>DDname</td> <td>Data definition name You can enter DDname as DD.</td> </tr> <tr> <td>Report</td> <td>Report identifier You can enter REPORT as RID or R. If a column name is not specified, REPORT is the default.</td> </tr> <tr> <td>Type</td> <td>Report type</td> </tr> <tr> <td>Prevrn</td> <td>Actions for previously run report</td> </tr> </tbody> </table> <p>The location specification identifies the origin and direction of the search. If omitted, the search will begin with the row at the top of the current display. The location specifications are as follows:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FIRST</td> <td>Starts the search at the beginning of the table and proceeds forward to the end of the table</td> </tr> <tr> <td>NEXT</td> <td>Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table.</td> </tr> <tr> <td>LAST</td> <td>Starts the search at the end of the table and proceeds backward to the beginning of the table</td> </tr> <tr> <td>PREV</td> <td>Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table</td> </tr> </tbody> </table> <p>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</p> <p>For more information about the FIND command, see Input Commands in the chapter "CA-Deliver Basics."</p>	Column	Description	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	Prevrn	Actions for previously run report	Location	Description	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
Column	Description																								
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																								
Prevrn	Actions for previously run report																								
Location	Description																								
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																								

Command	Description
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.

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 will 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 “CA-Deliver Basics.”

Code	Description
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 <i>WARNING! Use UF only as a last resort to clean up entries in a database since some entries may be left on the spool volumes.</i>
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 -----
Command ==>                                         Scroll ==> PAGE

Sel Report Id      -- Last Changed --  User      Description
==> *              *              *          *
TTAXQ001-R01      04/10/1995 10:02:05 GROBER1   QUARTERLY TAX
TTAXQ001-R05      04/10/1995 10:01:42 GROBER1   QUARTERLY TAX
TTAXQ001-R10      04/10/1995 10:01:42 GROBER1   QUARTERLY TAX
TTAXQ001-R15      04/10/1995 10:01:43 GROBER1   QUARTERLY TAX
TTAXQ001-R20      04/10/1995 10:01:43 GROBER1   QUARTERLY TAX
TTAXQ001-R25      04/10/1995 10:01:59 GROBER1   QUARTERLY TAX
TTAXQ001-R30      04/10/1995 10:01:59 GROBER1   QUARTERLY TAX
TTAXQ001-R35      04/10/1995 10:01:59 GROBER1   QUARTERLY TAX
TTCDLY01-R06      09/24/1992 11:08:09 DSTECK1   CREATE SMDR DAILY
TTCDLY01-R10      09/24/1992 11:08:09 DSTECK1   CREATE SMDR DAILY
TTCDLY02-R01      02/15/1995 10:00:01 JHASHA1   SIXTY MINUTE REPORT
TTCMTH02-R01      09/25/1992 09:41:07 DSTECK1   SDN LNGDST CHARGE SUMMAR
TTCMTH02-R02      09/25/1992 09:41:50 DSTECK1   PRE STORE LONG DIST BILL
TTCMTH02-R03      09/24/1992 17:20:57 DSTECK1   PRE STORE LONG DIST ZERO
TTCMTH02-R04      09/24/1992 17:21:28 DSTECK1   PRE STORE LONG DIST JNLS
TTCMTH02-R05      09/25/1992 09:42:11 DSTECK1   PRE CCARD LONG DIST BILL
TTCMTH02-R06      09/24/1992 17:19:57 DSTECK1   PRE CCARD LONG DIST ZERO
TTCMTH02-R07      09/24/1992 17:20:02 DSTECK1   PRE CCARD LONG DIST JNLS
TTCMTH02-R08      09/24/1992 11:20:54 DSTECK1   SWB DIRECT DIAL SUMMARY
    
```

Fields

The following table describes the fields on the Report Selection List panel:

Field	Description
Sel	Used to enter tabular commands in this column
Report Id	Displays the report identifier
Last Changed	Displays the date and time when the report identifier was last modified, and the user or job that last modified the report identifier
Description	Displays the description defined to the report

Input Commands

The following table describes the input commands available on the Report Selection List panel:

Command	Description
LOCATE	<p>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</p> <p>For sorted lists, the LOCATE command traverses the list based on the first or only sort field.</p> <p>Valid entries are L, LOC, and LOCATE.</p>
REDISP	<p>Redisplays (or refreshes) a selection list with current information</p> <p>Since definition and active data may be concurrently updated and added by the CA-Deliver start task, batch jobs, and online users, data displayed on a selection list may become outdated. Recent changes and newly added data are obtained when the REDISP command is entered.</p> <p>The syntax of the REDISP command is as follows: REDISP [ON / OFF]</p> <p>Where:</p> <p>ON Indicates that the display is to be refreshed automatically when the Enter key is pressed</p> <p>OFF Indicates that the REDISP command must be specifically entered to refresh the display</p> <p>The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.</p> <p>If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.</p> <p>For sorted lists, you must specifically enter the REDISP command to refresh the display.</p> <p>Valid entries are RED, REDISP, REF, and REFRESH.</p>
SELECT	<p>Selects the report identifier you specify as the operand of the command for display</p> <p>If the specified report identifier does not exist, an error message displays.</p> <p>Valid entries are S, SEL, and SELECT.</p>

Command	Description															
SORT	<p>Sorts the selection list display by report identifier, date/time entry was last changed, user who last changed entry, or description</p> <p>Up to two fields can be sorted.</p> <p>The syntax of the SORT command is as follows:</p> <p>SORT field1 field2</p> <p>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.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Field Name</th> <th style="text-align: left;">Sort Sequence</th> <th style="text-align: left;">Description</th> </tr> </thead> <tbody> <tr> <td>Report</td> <td>Ascending</td> <td>Sorts by report identifier You can enter REPORT as RID or R.</td> </tr> <tr> <td>Changed</td> <td>Descending</td> <td>Sorts by date/time last changed You can enter CHANGED as CHA or C.</td> </tr> <tr> <td>User</td> <td>Ascending</td> <td>Sorts by user/job that last changed entry You can enter USER as U.</td> </tr> <tr> <td>Desc</td> <td>Ascending</td> <td>Sorts by description</td> </tr> </tbody> </table> <p>To sort the selection list by description, enter the command:</p> <p>Command ==> sort desc</p> <p>To sort the selection list by user who last changed entry and date/time entry was last changed, enter the command:</p> <p>Command ==> sort user cha</p> <p>Once 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.</p> <p>If the SORT command is entered by itself without a field, the standard dynamic list, which is sequenced by report identifier, displays.</p>	Field Name	Sort Sequence	Description	Report	Ascending	Sorts by report identifier You can enter REPORT as RID or R.	Changed	Descending	Sorts by date/time last changed You can enter CHANGED as CHA or C.	User	Ascending	Sorts by user/job that last changed entry You can enter USER as U.	Desc	Ascending	Sorts by description
Field Name	Sort Sequence	Description														
Report	Ascending	Sorts by report identifier You can enter REPORT as RID or R.														
Changed	Descending	Sorts by date/time last changed You can enter CHANGED as CHA or C.														
User	Ascending	Sorts by user/job that last changed entry You can enter USER as U.														
Desc	Ascending	Sorts by description														
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 will not occur.

Code	Description
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 <i>WARNING! Use UF only as a last resort to clean up entries in a database since some entries may be left on the spool volumes.</i>

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 will be set to asterisk (*) except for report identifier which will be filled with the identifier from the R primary command (if specified). When the filtering fields are changed, the selection list redisplay with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria will be displayed.

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

Report Definition Attributes Panel

The Report Definition Attributes panel is used to specify report attributes, which will override 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 attributes specified in the JCL are used by CA-Deliver for reports. There is generally no need to specify overrides to the attributes in report definitions. You may, 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   Type  ---->
  Step ----> EDITSTEP   Procstep ---->          DD   ----> EDITLIST

  Desc ==>

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

Field	Description
ARCH	<p>Identifies 1 to 9 sets of criteria for archiving reports</p> <p>Each set of criteria (which you define by an initialization parameter) specifies the following:</p> <ul style="list-style-type: none"> ■ The direct-to-View database and/or the archive medium (disk or tape) that CA-View will use to archive a report ■ The SYSOUT class, destination, and forms name CA-Deliver will use to create a copy of a report for transmission to CA-View <p>Values are as follows:</p> <p>1 to 9 Selects the archiving criteria for your site</p> <p>0 Suppresses the archiving of a report</p> <p>Blank Uses the default value defined by the initialization parameter ARCH</p> <p>For more information about the ARCH parameter, see the <i>CA-Deliver Reference Guide</i>.</p>
BANNER	<p>Specifies the name of the model banner page to print at the beginning and end of a report</p> <p>Values are as follows:</p> <p>* Suppresses banner page printing</p> <p>Blank Prints the default model banner page defined by the initialization parameter BANNER</p> <p>For more information about the BANNER initialization parameter, see the <i>CA-Deliver Reference Guide</i>.</p>
BURST	<p>Indicates whether a report is to be burst into separate sheets when printed on an IBM 3800 printer</p> <p>Values are as follows:</p> <p>Y Indicates to burst the report</p> <p>N Keeps the report intact</p> <p>Blank Indicates to use the value specified in the JCL for the job that creates the report</p> <p>Blank is the default.</p>

Field	Description
CC	<p>Indicates the type of carriage control characters used in the report</p> <p>Values are as follows:</p> <p>M Uses machine control characters</p> <p>A Uses ASA control characters</p> <p>A single-character identifier</p> <p> Uses the user-defined set of control characters</p> <p>Blank Uses the carriage control specification from the DCB/ACB for the report</p> <p> Blank is the default.</p>
CLASS	<p>Specifies the SYSOUT class for the report</p> <p>Values are as follows:</p> <p>A single alphanumeric character</p> <p> Uses the SYSOUT class character you define</p> <p>Blank Uses the SYSOUT class specified in the JCL for the job that creates the report</p> <p> Blank is the default.</p>
COPIES	<p>Indicates whether to print the report on single- or multi-part paper</p> <p>Valid values are:</p> <p>Y or Blank Uses the copies DD parameter (that specifies the number of grouped distribution identifiers) to write the report to spool</p> <p>N Assumes COPIES=1</p> <p>For more information about the copies DD parameter, see the <i>CA-Deliver Reference Guide</i>.</p>
FCB	<p>Specifies the name of the forms control image used to print a report</p> <p>Blank Uses the forms control image specified in the JCL for the job that creates the report</p>

Field	Description
FORM	<p>Specifies the name of the special form used to print the report</p> <p>Blank Uses the forms control image specified in the JCL for the job that creates the report</p> <p>Note: If OUTPUT JCL statements are not available for CA-Deliver 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.</p>
FLASH	<p>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</p> <p>Blank Uses the form overlay name and count specified in the JCL for the job that creates the report</p>
LATE	<p>Specifies the time in a 24-hour <i>hh:mm</i> format when a report is to be marked late if it is not queued for printing</p> <p>Example: 09:35 represents 9:35 A.M. and 15:45 represents 3:45 P.M.</p> <p>Note: When you specify the late time, enter 00:01 (not 00:00) and 23:59 (not 24:00).</p> <p>Blank Suppresses the late check</p>
OPTCDJ	<p>Specifies whether a report contains IBM 3800 printer table reference characters</p> <p>Y Specifies that the report contains IBM 3800 printer table reference characters</p> <p>N or Blank Specifies that the report does not contain IBM 3800 printer table reference characters</p>
UCS	<p>Specifies the name of the special character set used to print a report</p> <p>Blank Uses the character set name specified in the JCL for the job that creates the report</p>

Field	Description
FORMDF	<p>Specifies the name of the form definition used to print a report on an IBM 3800 printing subsystem</p> <p>Blank Uses the form definition name specified in the JCL for the job that creates the report</p> <p>Blank is the default.</p> <p>Note: If OUTPUT JCL statements are not available for CA-Deliver 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.</p>
PAGEDF	<p>Specifies the name of the page definition used to print a report on an IBM 3800 printing subsystem</p> <p>Blank Uses the page definition name specified in the JCL for the job that creates the report</p> <p>Blank is the default.</p> <p>Note: If OUTPUT JCL statements are not available for CA-Deliver 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.</p>
PRMODE	<p>Specifies the process mode required to print a SYSOUT data set</p> <p>Values are as follows:</p> <p>LINE Sends the data set to a line mode printer</p> <p>PAGE Sends the data set to a page mode printer</p> <p>Specific 1- to 8-character mode name</p> <p> Sends the data set to a mode printer defined for your site</p>

Field	Description
PRSET	<p>Specifies the name of the printer set up member in the CA-Deliver database used for a report</p> <p>You can use this member to enter XEROX DJDE parameters or any other information you want to precede the report data.</p> <p>If specified, the printer set up records are appended to the report immediately after the report banner page but before the first record in the report.</p> <p>Blank Suppresses the appending of the printer set up records to the report</p> <p> Blank is the default.</p> <p>Note: To add PRSET members to the CA-Deliver database, use the RMODBASE utility PLOAD control statement, which is described in the <i>CA-Deliver Reference Guide</i>.</p>
PRTY	<p>Specifies the priority for a SYSOUT data set to enter the output queue</p> <p>You can specify a decimal value between 0 (lowest priority) and 255 (highest priority).</p> <p>A data set with a higher priority prints sooner.</p>
CHARS	<p>Specifies the names of character arrangement tables used when a report prints on an IBM 3800 printer</p> <p>You can specify 1 to 4 names in this field.</p> <p>Blank Uses the character arrangement table names specified in the JCL for the job that creates the report</p>
MODIFY	<p>Specifies the name of the copy modification module and table reference character used when a report prints on an IBM 3800 printer</p> <p>Blank Uses the copy modification module name and table reference character specified in the JCL for the job that creates the report</p>
COPYG	<p>Specifies the number of copies of each page that are grouped together when a report prints on an IBM 3800 printer</p> <p>Blank Uses the IBM 3800 copy groups specified in the JCL for the job that creates the report</p>

Input Commands The following table describes the input commands available on the Report Definition Attributes panel:

Command	Description
B	Displays the bundle specifications for the report
CANCEL	Terminates the current display and displays the previous panel; changed data will not be saved Valid entries are CAN and CANCEL.
COPY	Copies definition specifications from another report identifier The syntax of the command is as follows: <i>COPY id [ALL]</i> Where: <i>id</i> Specifies the report identifier from which the specifications are to be copied <i>ALL</i> 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 <i>ALL</i> 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   Type  ---->
  Step ----> EDITSTEP   Procstep ---->          DD    ----> EDITLIST

Bundle Specifications:
Sel  Bundle Id          Description

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

Fields

The following table describes the fields on the Report Bundle Specifications subpanel:

Field	Description
Sel	Used to enter 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 will be bundled. To bundle the report, a corresponding distribution identifier must be defined 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 table describes the input commands available on the Report Bundle Specifications subpanel:

Command	Description						
CANCEL	<p>Terminates the current display and displays the previous panel; changed data will not be saved</p> <p>Valid entries are CAN and CANCEL.</p>						
COPY	<p>Copies definition specifications from another report identifier</p> <p>The syntax of the command is as follows:</p> <p><i>COPY id</i></p> <p>Where:</p> <p><i>id</i> Specifies the report identifier from which the specifications are to be copied</p> <p>You must also specify the A or B selection code to identify the destination of the copy.</p>						
D	Displays the distribution specifications for the report						
FIND	<p>Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel</p> <p>The syntax of the FIND command is as follows:</p> <p><i>FIND string column [FIRST NEXT LAST PREV] NOT</i></p> <p>Valid entries are F and FIND.</p> <p>The string specification identifies the search data. The string will be matched against data starting in the first character of the search column.</p> <p>The FIND command will not locate data that is embedded within the column. If the string contains special characters, enclose the string within quotation marks.</p> <p>The column name specification identifies the field that is to be searched. If omitted, the bundle identifier (BUNDLE) field will be searched.</p> <p>The following columns can be searched:</p> <table border="1"> <thead> <tr> <th>Column</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>BUNDLE</td> <td> <p>Bundle identifier</p> <p>You can enter BUNDLE as BID or B. If a column name is not specified, BID is assumed.</p> </td> </tr> <tr> <td>DESC</td> <td>Bundle description</td> </tr> </tbody> </table>	Column	Description	BUNDLE	<p>Bundle identifier</p> <p>You can enter BUNDLE as BID or B. If a column name is not specified, BID is assumed.</p>	DESC	Bundle description
Column	Description						
BUNDLE	<p>Bundle identifier</p> <p>You can enter BUNDLE as BID or B. If a column name is not specified, BID is assumed.</p>						
DESC	Bundle description						

Command	Description										
FIND (Continued)	<p>The location specification identifies the origin and direction of the search. If omitted, the search will begin with the row at the top of the current display. The location specifications are as follows:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FIRST</td> <td>Starts the search at the beginning of the table and proceeds forward to the end of the table</td> </tr> <tr> <td>NEXT</td> <td>Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table</td> </tr> <tr> <td>LAST</td> <td>Starts the search at the end of the table and proceeds backward to the beginning of the table</td> </tr> <tr> <td>PREV</td> <td>Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table</td> </tr> </tbody> </table> <p>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.</p> <p>For more information about the FIND command, see Input Commands in the chapter “CA-Deliver Basics.”</p>	Location	Description	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
Location	Description										
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										
I	Displays the special instructions for the report										
RFIND	<p>Locates the next occurrence of a previously issued FIND command</p> <p>If another occurrence is not found, a not found message displays. Normally, PF5 and PF17 are defined as the RFIND key.</p>										
SORT	<p>Sorts the report bundle specifications by bundle identifier</p> <p>The bundle identifiers are sorted in ascending sequence. If bundle identifiers are grouped, the group will be sorted first and then merged into the list based on the first bundle identifier in the group.</p> <p>Note: The list of bundle specifications will be saved in the new sequence after sorting. If this sequence is not what you want, enter the CANCEL command to ignore the changes.</p>										
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 will 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 “CA-Deliver Basics.”

Code	Description
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 ---- Row 00001 of 00003
Command ==>                                         Scroll ==> PAGE

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

Distribution Specifications:
Sel Grp  Distid  Copies  Dest          Writer  Out  Rview  Reprt  Del
      D27PROD   1
      D29ACCT   1
      D27SYSP4  1
***** BOTTOM OF DATA *****
    
```

Fields

The following table describes the fields on the Report Distribution Specifications subpanel:

Field	Description
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 or leave this field blank to indicate that the distribution identifier is not to be grouped.
Distid	Identifies the report recipient
Copies	Specifies the number of copies to be sent to the recipient Enter an asterisk to accept the value in the JCL.
Dest	Specifies a destination where the report is to be printed Blank Accepts the value specified in the JCL Blank is the default.
Writer	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
Out	Specifies whether output is to be printed, tracked, or untracked for view only Values are as follows: T Creates tracked, view only output Y Creates printed output N Creates view only output (not printed or tracked)
Rview	Specifies whether the recipient has restricted viewing privileges for the report within CA-View which provides viewing through nonsecured logical views and prevents the use of the VIEW command Valid values are Y, N, and Blank.

Field	Description
Reprt	<p>Specifies whether recipients can reprint the report within CA-View</p> <p>Values are as follows:</p> <p>Valid values are Y, N, and Blank.</p>
Del	<p>Specifies whether recipients can delete the report from archive or alter the archive status within CA-View</p> <p>Values are as follows:</p> <p>Y Permits recipients to delete the report from archive or alter the archive status</p> <p>N Prevents recipients from deleting the report or altering the archive status</p>

Input Commands

The following table describes the input commands available on the Report Distribution Specifications subpanel:

Command	Description
B	Displays the bundle specifications for the report
CANCEL	<p>Terminates the current display and displays the previous panel; changed data will not be saved</p> <p>Valid entries are CAN and CANCEL.</p>
COPY	<p>Copies definition specifications from another report identifier</p> <p>The syntax of the command is as follows:</p> <p><i>COPY id</i></p> <p>Where:</p> <p><i>id</i> Specifies the report identifier from which the specifications are to be copied</p> <p>You must also specify the A or B selection code to identify the destination of the copy.</p>

Command	Description																				
FIND	<p>Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel</p> <p>The syntax of the FIND command is as follows:</p> <p>FIND <i>string column</i> [<i>FIRST</i> <i>NEXT</i> <i>LAST</i> <i>PREV</i>] NOT</p> <p>You can enter the FIND command as F.</p> <p><i>String</i> identifies the search data. The string will be matched against data starting in the first character of the search column.</p> <p>The FIND command will not locate data that is embedded within the column.</p> <p>If the string contains special characters, enclose the string within quotation marks.</p> <p><i>Column</i> identifies the field that is to be searched. If omitted, the distribution identifier (DISTID) column will be searched.</p> <p>The following columns can be searched:</p> <table border="1"> <thead> <tr> <th>Column</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DISTID</td> <td>Distribution Identifier You can enter DISTID as DID or D. If a column name is not specified, DISTID is assumed.</td> </tr> <tr> <td>GROUP</td> <td>Group indicator You can enter GROUP as GRP.</td> </tr> <tr> <td>COPIES</td> <td>Output copies</td> </tr> <tr> <td>DEST</td> <td>Report destination</td> </tr> <tr> <td>WRITER</td> <td>External writer You can enter WRITER as WTR.</td> </tr> <tr> <td>OUT</td> <td>Output indicator</td> </tr> <tr> <td>RVIEW</td> <td>CA-View logical view restriction indicator</td> </tr> <tr> <td>REPRT</td> <td>CA-View reprint restriction</td> </tr> <tr> <td>DEL</td> <td>CA-View delete restriction</td> </tr> </tbody> </table>	Column	Description	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.	COPIES	Output copies	DEST	Report destination	WRITER	External writer You can enter WRITER as WTR.	OUT	Output indicator	RVIEW	CA-View logical view restriction indicator	REPRT	CA-View reprint restriction	DEL	CA-View delete restriction
Column	Description																				
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.																				
COPIES	Output copies																				
DEST	Report destination																				
WRITER	External writer You can enter WRITER as WTR.																				
OUT	Output indicator																				
RVIEW	CA-View logical view restriction indicator																				
REPRT	CA-View reprint restriction																				
DEL	CA-View delete restriction																				

Command	Description										
FIND <i>(Continued)</i>	<p>The location specification identifies the origin and direction of the search. If omitted, the search will begin with the row at the top of the current display. The location specifications are as follows:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FIRST</td> <td>Starts the search at the beginning of the table and proceeds forward to the end of the table</td> </tr> <tr> <td>NEXT</td> <td>Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table</td> </tr> <tr> <td>LAST</td> <td>Starts the search at the end of the table and proceeds backward to the beginning of the table</td> </tr> <tr> <td>PREV</td> <td>Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table</td> </tr> </tbody> </table> <p>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.</p> <p>For more information about the FIND command, see Input Commands in the chapter “CA-Deliver Basics.”</p>	Location	Description	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
Location	Description										
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										
I	Displays the special instructions for the report										
RFIND	<p>Locates the next occurrence of a previously issued FIND command</p> <p>If another occurrence is not found, a not found message displays. Normally, PF5 and PF17 are defined as the RFIND key.</p>										
SORT	<p>Sorts the report distribution specifications by distribution identifier</p> <p>The distribution identifiers are sorted in ascending sequence. If distribution identifiers are grouped, the group will be sorted first and then merged into the list based on the first distribution identifier in the group.</p> <p>Note: The list of distribution specifications will be saved in the new sequence after sorting. If this sequence is not what you want, enter the CANCEL command to ignore the changes.</p>										
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 will 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 “CA-Deliver Basics.”

Code	Description
S	Displays the distribution data for the distribution identifier

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 which 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   Type  --->
  Step ---> EDITSTEP   Procstep --->          DD     ---> EDITLIST

Special Instructions:
Sel Instruction

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

```

Fields The following table describes the fields on the Report Special Instructions subpanel:

Field	Description
Sel	Used to enter tabular commands in this column
Instruction	Specifies 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 table describes the input commands available on the Report Special Instructions subpanel:

Command	Description
B	Displays the bundle specifications for the report
CANCEL	Terminates the current display and displays the previous panel; changed data will not be saved Valid entries are CAN and CANCEL.
COPY	Copies definition specifications from another report identifier The syntax of the command is as follows: COPY <i>id</i> Where: <i>id</i> Specifies the report identifier from which the specifications are to be copied You must also 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. For more information, see the section [Tabular Commands](#) in the chapter “CA-Deliver 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    ---> TRJOB02-R01  Job    ---> TRJOB02  Type  ---> STACK
  Step  ---> UPDTSTEP    Procsetp --->          DD    ---> REPTS

Report Identification Text:
Sel Type Reus Op Line Col  Text

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

```

Fields

The following table describes the fields on the Report Identification Text subpanel:

Field	Description
Sel	Used to enter tabular commands in this column
Type	Specifies the type of text string to be used to select the segment Values are as follows: <ul style="list-style-type: none"> 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.

Field	Description
Reus	<p>Specifies a reusability indicator</p> <p>Values are as follows:</p> <p>Y Indicates the text string (X, P, or B in Type field) can be used to select another segment</p> <p>N Indicates the text string cannot be reused</p> <p>Note: If E, A, or O is entered under Type, the Reus field is ignored.</p>
Op	<p>Specifies text string value</p> <p>Values are as follows:</p> <p>EQ, =, or blank = equal to</p> <p>NE or ^= not equal to</p> <p>LT or < less than</p> <p>GT or > greater than</p> <p>LE or <= less than or equal to</p> <p>GE or >= greater than or equal to the text string specified under Text</p>
Line	<p>Specifies the line number (1 to 255) where the text string search begins</p> <p>* Searches all lines up to a maximum of 255 lines per page</p>
Col	<p>Specifies the column (1-255) where the text string search begins</p> <p>* Searches all columns</p>
Text	<p>Specifies the text string used in the comparison</p> <p>Use single quotation marks only if they are to be included in the search.</p>

Input Commands The following table describes the input commands available on the Report Identification Text subpanel:

Command	Description
B	Displays the bundle specifications for the report
CANCEL	Terminates the current display and displays the previous panel; changed data will not be saved Valid entries are CAN and CANCEL.
COPY	Copies definition specifications from another report identifier The syntax of the command is as follows: COPY <i>id</i> Where: <i>id</i> Specifies the report identifier from which the specifications are to be copied You must also specify the A or B selection code to identify the destination of the copy.
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. For more information, see the section [Tabular Commands](#) in the chapter “CA-Deliver 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 ==>                                         Scroll ==> PAGE

  ID   ---> U50500-R01  Job   ---> U50500      Type  ---> CNTL
  Step ---> QSALESTP   Prcstp --->                          DD   ---> QREPORT

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 table describes the fields on the Control Break Identification subpanel:

Field	Description
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

Field	Description
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 table describes the input commands available on the Control Break Identification subpanel:

Command	Description
B	Displays the bundle specifications for the report
CANCEL	Terminates the current display and displays the previous panel; changed data will not be saved Valid entries are CAN and CANCEL.
COPY	Copies definition specifications from another report identifier The syntax of the command is as follows: COPY <i>id</i> Where: <i>id</i> 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

For more information, 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 for TRJOB01-R01 ---- Row 00001 of 00005
Command ==>                                     Scroll ==> PAGE

Sel Gen Jobname  Jobid                Lines  Pages -- Print Queued --  Prevrn
+0 TRJOB01  JOB07400             523   15  12/13/1901 15:34:30
-1 TRJOB01  JOB02379             562   16  12/10/1901 09:46:48
-2 TRJOB01  JOB05263             495   14  12/09/1901 10:32:07
-2 TRJOB01  JOB05261              61    2  12/09/1901 10:31:12
-2 TRJOB01  JOB05219             130    3  12/09/1901 10:07:43
***** BOTTOM OF DATA *****
    
```

Fields

The following table describes the fields on the Report Historical Data panel:

Field	Description
Sel	Used to enter 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
Prevrn	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 in the following table. Enter the selection code to the left of, and on the same line as, the report identifier to be selected.

Code	Description
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 tracking number assigned by CA-Deliver
- 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

For more information, 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 ----- Row 00001 of 00010
Command ==>                                         Scroll ==> PAGE

Report Id ---> TRJOB01-R01 Job ---> TRJOB          Jobid ---> JOB07400
Generation ---> +0

Sel Hdn      Distid  Bid      Bsn G Station Date      Time (Lines Pages)
0000002513 D27MGR D902B1  013 R05.PR2 11/16/2001 08:35 1564 300
              B&D    11/15/2001 09:46 CHERYL
              COURIER 11/15/2001 10:14 JIM
              DROPOFF 11/15/2001 09:47 EVELYN
              SHREDDER 11/16/2001 10:48 BILL
0000002876 D27DIR PRINTR5 11/15/2001 07:37 1564 300
              B&D    11/15/2001 08:36 TOM
              COURIER 11/15/2001 09:46 MARY
              DROPOFF 11/15/2001 10:47 JANE
              SHREDDER 11/17/2001 09:48 RALPH
***** BOTTOM OF DATA *****
    
```

Fields

The following table describes the fields on the Report Detail Historical Data panel:

Field	Description
Sel	Used to enter tabular commands in this column
Hdn	Specifies the history detail number
Distid	Specifies the distribution identifier of the recipient of the report
Bid	Specifies the bundle identifier
Bsn	Specifies the sequential system-assigned tagging and tracking number
G	Indicates whether the report is grouped by a distribution identifier
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
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 table describes the input commands available on the Report Detail Historical Data panel:

Command	Description
Tn	<p>Manually updates the date, time, and user field for a station of a report</p> <p>Enter the Tn command as follows:</p> <p><i>Tn hdn date time data</i></p> <p>Where:</p> <p><i>n</i> Identifies the station by number from 1 to 5 If omitted, the first station will be assumed.</p> <p><i>hdn</i> Identifies the history detail number Leading zeros are not required.</p> <p><i>date</i> 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.</p> <p><i>time</i> 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.</p> <p><i>data</i> Identifies information associated with the posting of the station If omitted, the logon user ID will be used. If data contains special Id characters or blanks, enclose them quotes.</p>

Selection Codes

You can post one or more stations 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 station to be posted. The first station for each Hdn is always the printer station and cannot be posted or deleted.

Code	Description
T	<p>Posts the station with the date, time, and user data</p> <p>You can enter the date and time to identify a unique date and time.</p> <p>Blank uses the current date and time.</p> <p>You can also enter data in the user field. If no data is entered in the user field, the logon user ID will be inserted.</p>
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: U90927-R01 ----- Row 00001 of 00003
Command ==>                                         Scroll ==> PAGE

Sel Distid  Bundle Id  C Copies Dest          Writer  Out Rview Reprt Del
==> *      *      *      *      *      *      *      *      *
D27PRES                    1                    N      N      Y      Y
D27PROD  D27BNDL  A  1      LOCAL          Y      Y      Y      Y
D27SYSP                    1                    Y      Y      Y      Y
D27VPRES                    1                    N      N      Y      N
***** BOTTOM OF DATA *****
    
```

Fields

The following table describes the fields on the Distribution Xref for Report panel:

Field	Description
Sel	Used to enter tabular commands in this column
G	Indicates that the distribution identifier is to be grouped with the previous identifier
Distid	Identifies the report recipient
Bundle Id	Identifies the bundle that the report will be included in
C	Identifies the distribution SYSOUT class to be used for printing the report If SYSOUT class is blank, the report will be 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.
Dest	Identifies the distribution destination where the report is to be printed If blank, the report will be routed to the destination in the JCL used to create the report.
Writer	Identifies the distribution external writer that is to process the report If blank, the report will be processed by the external writer referenced in the JCL used to create the report.
Out	Indicates whether output is to be printed, tracked, or untracked for view only Values are as follows: T Creates tracked, view only output Y Creates printed output N Creates view only output (not printed or tracked)

Field	Description
Rview	<p>Indicates whether the recipient has restricted viewing privileges for the report within CA-View which provides viewing through nonsecured logical views and prevents the use of the VIEW command</p> <p>Values are as follows:</p> <p>Y Recipient can only access the report with an nonsecured logical view and is prohibited from using the VIEW command</p> <p>N Recipient can access the report through any logical view and can use the VIEW command to create or change the logical view</p>
Reprt	<p>Indicates whether the recipient can reprint the report within CA-View</p> <p>Values are as follows:</p> <p>Y Recipient can reprint the report</p> <p>N Recipient is not allowed to reprint the report</p>
Del	<p>Indicates whether the recipients can delete the report from archive or alter the archive status within CA-View</p> <p>Values are as follows:</p> <p>Y Permits recipients to delete the report from archive or alter the archive status</p> <p>N Prevents recipients from deleting the report or altering the archive status</p>

Input Commands The following table describes the input commands available on the Distribution Xref for Report panel:

Command	Description												
LOCATE	<p>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</p> <p>For sorted lists, the LOCATE command traverses the list based on the first or only sort field.</p> <p>Valid entries are L, LOC, and LOCATE.</p>												
SELECT	<p>Selects the distribution identifier you specify as the operand of the command for display</p> <p>If the specified report identifier does not exist, an error message displays.</p> <p>Valid entries are S, SEL, and SELECT.</p>												
SORT	<p>Sorts the selection list display by distribution identifier, bundle identifier, or output indicator</p> <p>The syntax of the SORT command is as follows:</p> <p>SORT <i>field</i></p> <p>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.</p> <table border="1"> <thead> <tr> <th>Field Name</th> <th>Sort Sequence</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DISTID</td> <td>Ascending</td> <td>Sorts by distribution identifier You can enter DISTID as DID or D.</td> </tr> <tr> <td>BUNDLE</td> <td>Ascending</td> <td>Sorts by bundle identifier You can enter BUNDLE as BID or B.</td> </tr> <tr> <td>OUT</td> <td>Ascending</td> <td>Sorts by output indicator</td> </tr> </tbody> </table> <p>To sort the selection list by distribution identifier, enter the command:</p> <p>Command ==> sort distid</p> <p>Once 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.</p>	Field Name	Sort Sequence	Description	DISTID	Ascending	Sorts by distribution identifier You can enter DISTID as DID or D.	BUNDLE	Ascending	Sorts by bundle identifier You can enter BUNDLE as BID or B.	OUT	Ascending	Sorts by output indicator
Field Name	Sort Sequence	Description											
DISTID	Ascending	Sorts by distribution identifier You can enter DISTID as DID or D.											
BUNDLE	Ascending	Sorts by bundle identifier You can enter BUNDLE as BID or B.											
OUT	Ascending	Sorts by output indicator											

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 will not occur.

Code	Description
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 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 will be set to asterisk (*). When the filtering fields are changed, the selection list redisplay with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria will be 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 -----
Command ==>                                         Scroll ==> PAGE

Sel Bundle Id      -- Last Changed -- User      Description
==> *              *              *              *
APBUNDL1           08/31/1994 09:00:04 GJONES  ACCOUNTS PAYABLE REPORTS
CKECKIN            12/15/1993 16:46:29 HFINN   CHECKI-G - IN HOUSE
CHECKNS            12/15/1993 16:16:18 HFINN   CHECKI-G - NORTH SITE
CHECKSS            05/05/1994 16:46:38 HFINN   CHECKI-G - SOUTH SITE
CHECKWH            11/10/1993 12:33:13 HFINN   CHECKI-G - WAREHOUSE
D902344            08/26/1994 13:55:52 N27USR  DELIVERABL-S - NORTH SIT
D902354            08/31/1994 13:55:52 N27USR  DELIVERABL-S - SOUTH SIT
D902457            11/10/1993 09:44:57 N27USR  DELIVERABL-S - IN HOUSE
D903125            12/02/1993 14:50:05 GJONES  CA-H - WEST SITE
D90415             12/03/1993 12:25:54 HFINN   CA-H - IN HOUSE
D904564            01/03/1994 11:56:49 N27USR  DELIVERABL-S - WEST SITE
D90514             01/03/1994 12:32:38 HFINN   CA-H - NORTH SITE
D90543             12/15/1993 09:46:09 N27USR  CA-H - SOUTH SITE
D90563             08/26/1994 16:16:05 HFINN   CA-H - EAST SITE
D90675             12/15/1993 13:56:47 N27USR  CA-H - WAREHOUSE
D907869            01/03/1994 14:13:48 N27USR  DELIVERABL-S - EAST SITE
FINBNDL01          11/15/1993 10:18:15 GJONES  FINANCIAL DATA
FINBNDL02          12/03/1993 10:05:23 HFINN   FINANCIAL SUMMARIES
GJONESBNDL         01/03/1994 16:06:18 TEST    TESTING DESCRIPTION
    
```

Fields

The following table describes the fields on the Bundle Selection List panel:

Field	Description
Sel	Used to enter tabular commands in this column
Bundle	Displays the bundle identifier
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
Description	Displays the description defined to the bundle

Input Commands

The following table describes the input commands available on the Bundle Selection List panel:

Command	Description
LOCATE	<p>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</p> <p>For sorted lists, the LOCATE command traverses the list based on the first or only sort field.</p> <p>Valid entries are L, LOC, and LOCATE.</p>
REDISP	<p>Redisplays (or refreshes) a selection list with current information</p> <p>Since definition and active data can be concurrently updated and added by the CA-Deliver start task, batch jobs, and online users, data displayed on a selection list may become outdated. Recent changes and newly added data are obtained when the REDISP command is entered.</p> <p>The syntax of the REDISP command is as follows:</p> <p>REDISP [ON / OFF]</p> <p>Where:</p> <p>ON Indicates that the display is to be refreshed automatically when the Enter key is pressed</p> <p>OFF Indicates that the REDISP command must be specifically entered to refresh the display</p> <p>The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.</p> <p>If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.</p> <p>For sorted lists, you must specifically enter the REDISP command to refresh the display.</p> <p>Valid entries are RED, REDISP, REF, and REFRESH.</p>
SELECT	<p>Selects the bundle identifier you specify as the operand of the command for display</p> <p>If the specified bundle identifier does not exist, an entry will be created for it.</p> <p>Valid entries are S, SEL, and SELECT.</p>

Command	Description															
SORT	<p>Sorts the selection list display by bundle identifier, date/time entry was last changed, user who last changed entry, or description</p> <p>Up to two fields can be sorted.</p> <p>The syntax of the SORT command is as follows:</p> <p><i>SORT field1 field2</i></p> <p>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.</p> <table border="1"> <thead> <tr> <th>Field Name</th> <th>Sort Sequence</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>BUNDLE</td> <td>Ascending</td> <td>Sorts by bundle identifier You can enter BUNDLE as BID or B.</td> </tr> <tr> <td>CHANGED</td> <td>Descending</td> <td>Sorts by date/time last changed You can enter CHANGED as CHA or C.</td> </tr> <tr> <td>USER</td> <td>Ascending</td> <td>Sorts by user/job that last changed entry You can enter USER as U.</td> </tr> <tr> <td>DESC</td> <td>Ascending</td> <td>Sorts by description</td> </tr> </tbody> </table> <p>To sort the selection list by description, enter the command: Command ==> sort desc</p> <p>To sort the selection list by user who last changed entry and date/time entry was last changed, enter the command: Command ==> sort user cha</p> <p>Once 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.</p> <p>If the SORT command is entered by itself without a field, the standard dynamic list, which is sequenced by bundle identifier, displays.</p>	Field Name	Sort Sequence	Description	BUNDLE	Ascending	Sorts by bundle identifier You can enter BUNDLE as BID or B.	CHANGED	Descending	Sorts by date/time last changed You can enter CHANGED as CHA or C.	USER	Ascending	Sorts by user/job that last changed entry You can enter USER as U.	DESC	Ascending	Sorts by description
Field Name	Sort Sequence	Description														
BUNDLE	Ascending	Sorts by bundle identifier You can enter BUNDLE as BID or B.														
CHANGED	Descending	Sorts by date/time last changed You can enter CHANGED as CHA or C.														
USER	Ascending	Sorts by user/job that last changed entry You can enter USER as U.														
DESC	Ascending	Sorts by description														

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 will not occur.

Code	Description
D	Deletes the bundle identifier and all references to it
H	Display the historical data for the bundle
R	Renames the bundle identifier and changes all references to it to the new name The new name must be entered immediately to the right of the bundle identifier.
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 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 will be set to asterisk (*) except for bundle identifier which will be filled with the identifier from the B primary command (if specified). When the filtering fields are changed, the selection list redisplay with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria will be 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 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    ---> APBUNDL1
Desc  ==>

Attributes:
Banner ==> (           ,           )
BDist  ==>
Late   ==>
Interval ==>
Bundle Confirm? ==>
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 table describes the fields on the Bundle Definition Attributes panel:

Field	Description
Desc	Specifies the 1- to 24-character description of the bundle which is displayed on the Bundle Selection List panel in the Desc field
Banner	<p>Specifies the name of the model banner page that is to print at the beginning and end of a report</p> <p>Values are as follows:</p> <p>The name of the model bundle, distribution, and/or report banner page (in this order between the commas).</p> <p>Blank Accepts the default banner page</p> <p>* Suppresses the printing of the banner page</p>
BDist	<p>Specifies the bundle distribution identifier for the recipients of the reports to be used on the bundle banner page</p> <p>Address information is printed on the bundle banner page.</p> <p>Leave this field blank to use the distribution identifier for the first distribution point in the bundle.</p>
Late	<p>Specifies the time in a 24-hour <i>hh:mm</i> format when the bundle is to be output for printing</p> <p>Reports will be output even when all reports in the bundle have not been created.</p>

Field	Description
Bundle Confirm?	<p>Specifies that a confirmation indicator is needed before the bundle is to be printed even though all reports in the bundle are not created</p> <p>Values are as follows:</p> <p>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</p> <p>N You do not need to enter P to print the bundle</p> <p>Blank Accepts the BNDLCONF initialization parameter setting</p>
Interval	<p>Specifies the time in a 24-hour <i>hh:mm</i> format when subsequent continuation bundles are to be created</p> <p>Values are as follows:</p> <p><i>hh:mm</i> The hours and minutes when continuation bundles are to be created</p> <p>00:00 Continuation bundles are not to be created</p> <p>Blank Accepts the default interval</p>
Wait (Int)	<p>Specifies whether to hold bundles for production or to print bundles until the interval time</p> <p>Values are as follows:</p> <p>Y The bundle will not print until its bundling interval has expired</p> <p>N The bundle need not wait for its bundling interval to expire if all of the reports it needs are available for bundling</p> <p>Blank Uses the default wait indicator</p>
Wait (Late)	<p>Specifies whether to hold bundles for production or to print bundles until the late time</p> <p>Values are as follows:</p> <p>Y The bundle will not print until its late time has expired</p> <p>N The bundle need not wait for its late time to expire if all the reports it needs are available for bundling</p>

Field	Description
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 CA-Deliver started task; it is easier to track and reference a bundle if you use job cards

Input Commands

The following table describes the input commands available on the Bundle Definition Attributes panel:

Command	Description
CANCEL	Terminates the current display and displays the previous panel; changed data will not be saved Valid entries are CAN and CANCEL.
COPY	Copies definition specifications from another bundle identifier The syntax of the command is as follows: <i>COPY id [ALL]</i> Where: <i>id</i> Specifies the bundle identifier from which the specifications are to be copied <i>ALL</i> 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 <i>ALL</i> 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

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: For a report to be bundled, the distribution identifier must be defined to the bundle definition and report definition.

- 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 00010
Command ==>                                           Scroll ==> PAGE

   ID    ---> APBUNDL1

Distribution Specifications:
Sel  Distid                Address Line 1

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

Fields

The following table describes the fields on the Bundle Distribution Specifications subpanel:

Field	Description
Sel	Used to enter tabular commands in this column
Distid	Specifies the distribution identifier of the recipient of the bundle
Address Line 1	Display the first address line defined to the distribution identifier

Input Commands

The following table describes the input commands available on the Bundle Distribution Specifications subpanel:

Command	Description
CANCEL	<p>Terminates the current display and displays the previous panel; changed data will not be saved</p> <p>Valid entries are CAN and CANCEL.</p>
COPY	<p>Copies definition specifications from another bundle identifier</p> <p>The syntax of the command is as follows:</p> <p><i>COPY id</i></p> <p>Where:</p> <p><i>id</i> Specifies the bundle identifier from which the specifications are to be copied</p> <p>You must also specify the A or B selection code to identify the destination of the copy.</p>
FIND	<p>Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel</p> <p>The syntax of the FIND command is as follows:</p> <p><i>FIND string column [FIRST NEXT LAST PREV] NOT</i></p> <p>You can enter the FIND command as F.</p> <p>The string specification identifies the search data. The string will be matched against data starting in the first character of the search column.</p> <p>The FIND command will not locate data that is embedded within the column.</p> <p>If the string contains special characters, enclose the string within quotation marks.</p>

Command	Description																
FIND <i>(Continued)</i>	<p>The column name specification identifies the field that is to be searched. If omitted, the distribution identifier (DISTID) column will be searched. The following columns can be searched:</p> <table border="1"> <thead> <tr> <th>Column</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>DISTID</td> <td>Distribution Identifier You can enter DISTID as DID or D. If a column name is not specified, DISTID is assumed.</td> </tr> <tr> <td>ADDRESS</td> <td>First address line of distribution identifier Column name can specified as LINE.</td> </tr> </tbody> </table> <p>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:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FIRST</td> <td>Starts the search at the beginning of the table and proceeds forward to the end of the table</td> </tr> <tr> <td>NEXT</td> <td>Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table</td> </tr> <tr> <td>LAST</td> <td>Starts the search at the end of the table and proceeds backward to the beginning of the table</td> </tr> <tr> <td>PREV</td> <td>Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table</td> </tr> </tbody> </table> <p>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.</p> <p>For more information about the FIND command, see Input Commands in the chapter “CA-Deliver Basics.”</p>	Column	Description	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 distribution identifier Column name can specified as LINE.	Location	Description	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
Column	Description																
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ADDRESS	First address line of distribution identifier Column name can specified as LINE.																
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FIRST	Starts the search at the beginning of the table and proceeds forward to the end of the table																
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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																
I	Displays the special instructions for the bundle																
R	Displays the report specification for the bundle																

Command	Description
RFIND	Locates the next occurrence of a previously issued FIND command If another occurrence is not found, a line not located message displays. Normally, PF5 and PF17 are defined as the RFIND key.
SORT	Sorts the bundle distribution specifications by distribution identifier in ascending sequence Note: The list of distribution specifications will be 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 will 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 “CA-Deliver Basics.”

Code	Description
S	Displays the distribution data for the distribution identifier

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 table describes the fields on the Bundle Special Instructions subpanel:

Field	Description
Sel	Used to enter tabular commands in this column
Instruction	Specifies the instructions to be printed on the bundle banner page

Input Commands

The following table describes the input commands available on the Bundle Distribution Specifications subpanel:

Command	Description
CANCEL	Terminates the current display and displays the previous panel; changed data will not be saved Valid entries are CAN and CANCEL.
COPY	Copies definition specifications from another bundle identifier The syntax of the command is as follows: <i>COPY id</i> Where: <i>id</i> Specifies the bundle identifier from which the specifications are to be copied You must also 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 “CA-Deliver 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 00010
Command ==>                                         Scroll ==> PAGE

ID      ---> APBUNDL1

Report Specifications:
Sel  Report Id          Description

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

Fields

The following table describes the fields on the Bundle Report Specifications subpanel:

Field	Description
Sel	Used to enter 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 table describes the input commands available on the Bundle Report Specifications subpanel:

Command	Description
CANCEL	<p>Terminates the current display and displays the previous panel; changed data will not be saved</p> <p>Valid entries are CAN and CANCEL.</p>
COPY	<p>Copies definition specifications from another bundle identifier</p> <p>The syntax of the command is as follows:</p> <p><i>COPY id</i></p> <p>Where:</p> <p><i>id</i> Specifies the bundle identifier from which the specifications are to be copied</p> <p>You must also specify the A or B selection code to identify the destination of the copy.</p>
D	<p>Displays the distribution specification for the bundle</p>
FIND	<p>Scans columnar data for a string of characters, then scrolls to and displays the entry at the top of the panel</p> <p>The syntax of the FIND command is as follows:</p> <p><i>FIND string column [FIRST NEXT LAST PREV] NOT</i></p> <p>You can enter the FIND command as F.</p> <p>The string specification identifies the search data. The string will be matched against data starting in the first character of the search column.</p> <p>The FIND command will not locate data that is embedded within the column.</p> <p>If the string contains special characters, enclose the string within quotation marks.</p>

Command	Description																
<p>FIND (Continued)</p>	<p>The column name specification identifies the field that is to be searched. If omitted, the report identifier (REPORT) field will be searched. The following columns can be searched:</p> <table border="1"> <thead> <tr> <th>Column</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>REPORT</td> <td>Report identifier You can enter REPORT as RID or R. If a column name is not specified, REPORT is assumed.</td> </tr> <tr> <td>DESC</td> <td>Report description</td> </tr> </tbody> </table> <p>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:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FIRST</td> <td>Starts the search at the beginning of the table and proceeds forward to the end of the table</td> </tr> <tr> <td>NEXT</td> <td>Starts the search after the row that appears at the top of the current display and proceeds forward to the end of the table</td> </tr> <tr> <td>LAST</td> <td>Starts the search at the end of the table and proceeds backward to the beginning of the table</td> </tr> <tr> <td>PREV</td> <td>Starts the search before the row that appears at the top of the current display and proceeds backward to the beginning of the table</td> </tr> </tbody> </table> <p>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.</p> <p>For more information about the FIND command, see Input Commands in the chapter "CA-Deliver Basics."</p>	Column	Description	REPORT	Report identifier You can enter REPORT as RID or R. If a column name is not specified, REPORT is assumed.	DESC	Report description	Location	Description	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
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DESC	Report description																
Location	Description																
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RFIND	<p>Locates the next occurrence of a previously issued FIND command</p> <p>If another occurrence is not found, a not found message is displayed. Normally, PF5 and PF17 are defined as the RFIND key.</p>																
SORT	<p>Sorts the bundle report specifications by report identifier in ascending sequence</p> <p>Note: The list of report specifications will be saved in the new sequence after sorting. If this sequence is not what you want, use the CANCEL command to ignore the changes.</p>																

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 will 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 “CA-Deliver Basics.”

Code	Description
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

For more information, 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 for APBUNDL1 -- Row 00001 of 00002
Command ==>                               Scroll ==> PAGE

Sel Gen Jobname  Jobid           Lines   Pages -- Print Queued --
  +0 APBUNDL1  JOB07200         523     15 01/13/1994 15:34:30
  -1 APBUNDL1  JOB02339         562     16 01/12/1994 09:46:48
*****          BOTTOM OF DATA *****
    
```

Fields

The following table describes the fields on the Bundle Historical Data panel:

Field	Description
Sel	Used to enter tabular commands in this column
Gen	Shows generation (24-hour period starting at the TIME initialization parameter) in which the bundle was executed and 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.

Code	Description
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 tracking number assigned by CA-Deliver
- 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 --- 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      Distid  Report Id  G Station  Date      Time      User Data
0000002513  D27MGR  RM027A51-X1A  PRINTER1  11/15/2000 07:42  1564 300
                                     B&D      11/15/2000 09:46
                                     COURIER  11/15/2000 10:14  JIM
                                     DROPOFF  11/15/2000 09:47  EVELYN
                                     SHREDDER 11/16/2000 10:48  BILL
0000002515  D27DIR  RMOD27A51-X1A  PRINTER1  11/15/2000 07:42  1564 300
                                     B&D      11/15/2000 08:36  TOM
                                     COURIER  11/15/2000 09:46  MARY
                                     DROPOFF  11/15/2000 10:47  JANE
                                     SHREDDER 11/16/2000 09:48  RALPH
***** BOTTOM OF DATA *****
```

Fields

The following table describes the fields on the Bundle Detail Historical Data panel:

Field	Description
Sel	Used to enter 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 Hdn distinguishes individual copies of a report within bundled or non-bundled reports.
Distid	Indicates where the report and bundle are to be distributed
Report Id	Specifies the report identifier of the report in the bundle
G	Indicates whether the report is grouped by a distribution identifier
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
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 table describes the input commands available on the Bundle Detail Historical Data panel:

Command	Description
<i>Tn</i>	<p>Manually updates the date, time, and user field for a station of a bundle</p> <p>Enter the <i>Tn</i> command as follows:</p> <p><i>Tn hdn date time data</i></p> <p>Where:</p> <p><i>n</i> Identifies the station by number from 1- 5 If omitted, the first station will be assumed.</p> <p><i>hdn</i> Identifies the history detail number</p> <p>The <i>hdn</i> can be the bundle <i>hdn</i> or a report <i>hdn</i>. Specifying the bundle <i>hdn</i> will update the station for each report contained within the bundle. A report <i>hdn</i> will update the specific report ID only.</p> <p>If the <i>hdn</i> is blank or an asterisk (*), the bundle <i>hdn</i> will be used.</p> <p>Leading zeros are not required.</p> <p><i>date</i> Indicates the date to be set for the specified station in the default date format</p> <p>Specify an asterisk (*) to use the current date.</p> <p>Specify a comma (,) to retain the current station date.</p> <p><i>time</i> Indicates the time to be set for the specified station</p> <p>Specify an asterisk (*) to use the current time.</p> <p>Specify a comma (,) to retain the current station time.</p> <p><i>data</i> Identifies information associates with the posting of the station</p> <p>If omitted, the logon user ID will be used.</p> <p>If <i>data</i> contains special characters or blanks, enclose this parameter in quotes.</p>

Selection Codes You can post one or more stations 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 station to be posted. The first station for each Hdn is always the printer station and cannot be posted or deleted.

Code	Description
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 will be inserted.
TD	Deletes posted station information

For more information, see the chapter "[Obtaining Historical Data.](#)"

Primary Active Report List Panel

The Primary Active Report List panel is used to indicate the status of a report at all times.

- To display the Primary 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 (Primary) -----
Command ==>                                     Scroll ==> PAGE

Sel Report Id      Job Def  Exec   Exec   Bundle Id  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 *****
    
```

Fields

The following table describes the fields on the Primary Active Report List panel:

Field	Description
Sel	Used to enter 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.
Bundle Id	Specifies the bundle identifier
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) will be 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

Field	Description
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 will be late
NPROD	The report was not produced

Input Commands

The following table describes the input commands available on the Active Report List panels:

Command	Description
LEFT	Toggles between the primary and alternate 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 Since definition and active data can be concurrently updated and added by the CA-Deliver start task, batch jobs, and online users, data displayed on a selection list may 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 specifically entered to refresh the display

Command	Description															
REDISP (Continued)	<p>The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.</p> <p>If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.</p> <p>For sorted lists, the REDISP command must be specifically entered to refresh the display.</p> <p>Valid entries are RED, REDISP, REF, and REFRESH.</p>															
RIGHT	Toggles between the primary and alternate active displays															
SELECT	<p>Selects the report identifier you specify as the operand of the command for display</p> <p>If the specified report identifier does not exist, an error message displays.</p> <p>Valid entries are S, SEL, and SELECT.</p>															
SORT	<p>Sorts the Active Report List by report identifier, job name defined to database, execution job name, bundle identifier, report status, and exceptional condition</p> <p>Up to two fields can be sorted.</p> <p>The syntax of the SORT command is as follows:</p> <p><code>SORT field1 field2</code></p> <p>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.</p> <table border="1"> <thead> <tr> <th>Field Name</th> <th>Sort Sequence</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>REPORT</td> <td>Ascending</td> <td>Sorts by report identifier You can enter REPORT as RID or R.</td> </tr> <tr> <td>JOBNAME</td> <td>Ascending</td> <td>Sorts by job definition name You can enter JOBNAME as JOB or J.</td> </tr> <tr> <td>EXECJOB</td> <td>Ascending</td> <td>Sorts by execution job name You can enter EXECJOB as EXEC.</td> </tr> <tr> <td>BUNDLE</td> <td>Ascending</td> <td>Sorts by bundle identifier You can enter BUNDLE as BID or B.</td> </tr> </tbody> </table>	Field Name	Sort Sequence	Description	REPORT	Ascending	Sorts by report identifier You can enter REPORT as RID or R.	JOBNAME	Ascending	Sorts by job definition name You can enter JOBNAME as JOB or J.	EXECJOB	Ascending	Sorts by execution job name You can enter EXECJOB as EXEC.	BUNDLE	Ascending	Sorts by bundle identifier You can enter BUNDLE as BID or B.
Field Name	Sort Sequence	Description														
REPORT	Ascending	Sorts by report identifier You can enter REPORT as RID or R.														
JOBNAME	Ascending	Sorts by job definition name You can enter JOBNAME as JOB or J.														
EXECJOB	Ascending	Sorts by execution job name You can enter EXECJOB as EXEC.														
BUNDLE	Ascending	Sorts by bundle identifier You can enter BUNDLE as BID or B.														

Command	Description		
SORT <i>(Continued)</i>	Field Name	Sort Sequence	Description
	STATUS	Ascending	Sorts by report status You can enter STATUS as STAT or S.
	EXCPT	Ascending	Sorts by exceptional conditional You can enter EXCPT as EXC or X.
	To sort the selection list by exceptional condition, enter the command: Command ==> sort excpt		
	To sort the selection list by execution job name and status, enter the command: Command ==> sort exec status		
	Once 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 report identifier will be displayed.		

Selection Codes

You can select one or more active entries 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.

Code	Description
D	Deletes a report from a bundle prior to 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 <i>WARNING! Use forced inactivation only as a "last resort" to clean up entries in the database; bundle holding copies may be left on the spool volumes.</i>

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 will be set to asterisk (*) except for report identifier which will be filled with the identifier from the A primary command (if specified). When the filtering fields are changed, the active report list redisplay with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria will be displayed.

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

Alternate Active Report List Panel

The Alternate Active Report List panel is a secondary panel that you use to provide additional information for active reports.

- To display the Alternate Active Report List panel, enter **LEFT** on the command line (or press PF10/PF22) on the Primary Active Report List panel, and press Enter.

```

CA-Deliver - Active Report List (Alternate) -----
Command ==>                                     Scroll ==> PAGE

Sel Report Id      Job   Create   Late   Bundle  Bndl  View  View
=> *              Seq   Sysid   Time  Id      Xwtr  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 *****
    
```

Fields

The following table describes the fields on the Alternate Active Report List panel:

Field	Description
Sel	Used to enter tabular commands in this column
Report Id	Specifies the report identifier
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 will be marked late if it has not been queued for printing in an <i>hh:mm</i> format (for example, 23:15)
Bundle Id	Specifies the bundle identifier
Bndl Xwtr	Specifies the external writer number of the bundle holding copy
View Gen	Specifies the CA-View generation number
View Seq	Specifies the CA-View SYSOUT sequence number

Input Commands

The following table describes the input commands available on the Active Report List panels.

Command	Description
LEFT	Toggles between the primary and alternate active displays
LOCATE	<p>Scrolls to the entry whose name you specify as the operand of the command</p> <p>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.</p> <p>Valid entries are L, LOC, and LOCATE.</p>

Command	Description
REDISP	<p>Redisplays (or refreshes) a selection list with current information</p> <p>Since definition and active data can be concurrently updated and added by the CA-Deliver start task, batch jobs, and online users, data displayed on a selection list may become outdated. Recent changes and newly added data are obtained when the REDISP command is entered.</p> <p>The syntax of the REDISP command is as follows:</p> <pre>REDISP [ON / OFF]</pre> <p>Where:</p> <p>ON Automatically refreshes the display when you press Enter</p> <p>OFF Refreshes the display only when the REDISP command is entered</p> <p>The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.</p> <p>If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.</p> <p>For sorted lists, you must enter the REDISP command to refresh the display.</p> <p>Valid entries are RED, REDISP, REF, and REFRESH.</p>
RIGHT	Toggles between the primary and alternate active displays
SELECT	<p>Selects the report identifier you specify as the operand of the command for display</p> <p>If the specified report identifier does not exist, an error message displays.</p> <p>Valid entries are S, SEL, and SELECT.</p>
SORT	<p>Sorts the Active Report List by report identifier, job name defined to database, execution job name, bundle identifier, report status, and exceptional condition</p> <p>Up to two fields can be sorted.</p> <p>The syntax of the SORT command is as follows:</p> <pre>SORT <i>field1 field2</i></pre>

Command	Description																					
SORT (Continued)	<p>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.</p> <table border="1"> <thead> <tr> <th>Field Name</th> <th>Sort Sequence</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>REPORT</td> <td>Ascending</td> <td>Sorts by report identifier You can enter REPORT as RID or R.</td> </tr> <tr> <td>JOBNAME</td> <td>Ascending</td> <td>Sorts by job definition name You can enter JOBNAME as JOB or J.</td> </tr> <tr> <td>EXECJOB</td> <td>Ascending</td> <td>Sorts by execution job name You can enter EXECJOB as EXEC.</td> </tr> <tr> <td>BUNDLE</td> <td>Ascending</td> <td>Sorts by bundle identifier You can enter BUNDLE as BID or B.</td> </tr> <tr> <td>STATUS</td> <td>Ascending</td> <td>Sorts by report status You can enter STATUS as STAT or S.</td> </tr> <tr> <td>EXCPT</td> <td>Ascending</td> <td>Sorts by exceptional conditional You can enter EXCPT as EXC or X.</td> </tr> </tbody> </table> <p>To sort the selection list by exceptional condition, enter the command:</p> <p>Command ==> sort excpt</p> <p>To sort the selection list by execution job name and status, enter the command:</p> <p>Command ==> sort exec status</p> <p>Once 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.</p> <p>If the SORT command is entered by itself without a field, the standard dynamic list which is sequenced by report identifier displays.</p>	Field Name	Sort Sequence	Description	REPORT	Ascending	Sorts by report identifier You can enter REPORT as RID or R.	JOBNAME	Ascending	Sorts by job definition name You can enter JOBNAME as JOB or J.	EXECJOB	Ascending	Sorts by execution job name You can enter EXECJOB as EXEC.	BUNDLE	Ascending	Sorts by bundle identifier You can enter BUNDLE as BID or B.	STATUS	Ascending	Sorts by report status You can enter STATUS as STAT or S.	EXCPT	Ascending	Sorts by exceptional conditional You can enter EXCPT as EXC or X.
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EXCPT	Ascending	Sorts by exceptional conditional You can enter EXCPT as EXC or X.																				

Selection Codes

You can select one or more active entries 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.

Code	Description
D	Deletes a report from a bundle prior to 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 <i>WARNING! Use forced inactivation only as a "last resort" to clean up entries in the database; bundle holding copies may be left on the spool volumes.</i>

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 will be set to asterisk (*) except for report identifier which will be filled with the identifier from the A primary command (if specified). When the filtering fields are changed, the active report list redisplay with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria will be displayed.

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

Primary Active Bundle List Panel

The Primary Active Bundle List panel is used to display the current status of a bundle at all times.

- To display the Primary 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 (Primary) -----
Command ==>                                     Scroll ==> PAGE

Sel Bundle Id      Locked      Submit      Remaining
==> *              Sysid       *          Intvl Time  Wait  Status  Excpt
                  *
                  *
D723B2
D902B1
***** BOTTOM OF DATA *****
    
```

Fields

The following table describes the fields on the Primary Active Bundle List panel:

Field	Description
Sel	Used to enter tabular commands in this column
Bundle Id	Specifies the bundle identifier
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
Remaining Intvl Time	Specifies the time remaining in the current interval

Field	Description
Wait	<p>Indicates whether the bundle is to be produced when reports for the bundle are ready or at the interval time</p> <p>Values are as follows:</p> <p>YES The bundle is to be produced at the interval time</p> <p>Blank The bundle is to be produced as soon as the reports are ready</p>
Status	<p>Indicates the status of the bundle</p> <p>Values are as follows:</p> <p>Blank The bundle is active and has not been opened</p> <p>OPEN The bundle is open and is being created</p> <p>PRT REQ The bundle has been manually selected for printing with the tabular command P (print bundle now)</p> <p>QUEUED The bundle is created and is queued for printing</p>
Excpt	<p>Indicates whether an exception has occurred for the bundle and type of abend</p> <p>Values are as follows:</p> <p>Blank Exceptions do not exist for the bundle</p> <p>ABEND The job that created the bundle ended abnormally</p> <p>INCMP The bundle printed before all the active reports it was to contain were created</p> <p>NPROD The bundle consists entirely of reports that were not produced</p> <p>READY The bundle is ready for printing</p> <p>This exception displays only when bundle confirmation is on.</p>

Input Commands The following table describes the input commands available on the Active Bundle List panels:

Command	Description
LEFT	Toggles between the primary and alternate active displays
LOCATE	<p>Scrolls to the entry whose name you specify as the operand of the command</p> <p>If the specified name is not in the list, scrolls to the entry whose name immediately precedes that specified.</p> <p>For sorted lists, the LOCATE command traverses the list based on the first or only sort field.</p> <p>Valid entries are L, LOC, and LOCATE.</p>
REDISP	<p>Redisplays (or refreshes) a selection list with current information</p> <p>Since definition and active data can be concurrently updated and added by the CA-Deliver start task, batch jobs, and online users, data displayed on a selection list may become outdated. Recent changes and newly added data is obtained when the REDISP command is entered.</p> <p>The syntax of the REDISP command is as follows: REDISP [ON / OFF]</p> <p>Where:</p> <p>ON Automatically refreshes the display when you press Enter</p> <p>OFF Refreshes the display only when the REDISP command is entered</p> <p>The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.</p> <p>If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.</p> <p>For sorted lists, you must specifically enter the REDISP command to refresh the display.</p> <p>Valid entries are RED, REDISP, REF, and REFRESH.</p>
RIGHT	Toggles between the primary and alternate active displays

Command	Description												
SELECT	<p>Selects the bundle identifier you specify as the operand of the command for display</p> <p>If the specified bundle identifier does not exist, an entry will be created for it.</p> <p>Valid entries are S, SEL, and SELECT.</p>												
SORT	<p>Sorts the Active Bundle List by bundle identifier, bundle status, and exceptional condition</p> <p>Up to two fields can be sorted.</p> <p>The syntax of the SORT command is as follows:</p> <p><code>SORT field1 field2</code></p> <p>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.</p> <table border="1"><thead><tr><th>Field Name</th><th>Sort Sequence</th><th>Description</th></tr></thead><tbody><tr><td>BUNDLE</td><td>Ascending</td><td>Sorts by report identifier You can enter BUNDLE as BID or B.</td></tr><tr><td>STATUS</td><td>Ascending</td><td>Sorts by bundle status You can enter STATUS as STAT or S.</td></tr><tr><td>EXCPT</td><td>Ascending</td><td>Sorts by exceptional conditional You can enter EXCPT as EXC or X.</td></tr></tbody></table> <p>To sort the selection list by exceptional condition, enter the command:</p> <p>Command ==> sort excpt</p> <p>To sort the selection list by status and bundle identifier, enter the command:</p> <p>Command ==> sort status bundle</p> <p>Once 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.</p> <p>If the SORT command is entered by itself without a field, the standard dynamic list which is sequenced by bundle identifier will be displayed.</p>	Field Name	Sort Sequence	Description	BUNDLE	Ascending	Sorts by report identifier You can enter BUNDLE as BID or B.	STATUS	Ascending	Sorts by bundle status You can enter STATUS as STAT or S.	EXCPT	Ascending	Sorts by exceptional conditional You can enter EXCPT as EXC or X.
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EXCPT	Ascending	Sorts by exceptional conditional You can enter EXCPT as EXC or X.											

Selection Codes You can select one or more active entries 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.

Code	Description
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 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 will be set to asterisk (*) except for bundle identifier which will be filled with the identifier from the A primary command (if specified). When the filtering fields are changed, the active bundle list redisplay with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria will be displayed.

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

Alternate Active Bundle List Panel

The Alternate Active Bundle List panel is used to 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 Primary Active Bundle List panel. Therefore, the rest of the data is displayed on the Alternate Active Bundle List panel.

To display the Alternate Active Bundle List panel, do **one** of the following:

- Enter **LEFT** on the command line, and press Enter.
- Press PF10 or PF22 on the Primary Active Bundle List panel, and press Enter.

```

CA-Deliver - Active Bundle List (Alternate) -----
Command ==>                                     Scroll ==> PAGE

Sel Bundle Id          Late      Wait   Act  Pnd  Rdy  Bdl
==> *                 *      *     Cnt  Cnt  Cnt  Cnt
      D723B2                010  000  000  000
      D902B1                001  000  000  000
***** BOTTOM OF DATA *****
    
```

Fields

The following table describes the fields on the Alternate Active Bundle List panel:

Field	Description
Sel	Used to enter tabular commands in this column
Bundle Id	Specifies the bundle identifier
Late	Specifies the time in a 24-hour <i>hh:mm</i> format when the bundle is to be marked late if it is not queued for printing, for example 12:33

Field	Description
Wait Late	<p>Indicates whether the bundle is to be produced when reports in the bundle are ready or at the bundle late time</p> <p>Values are as follows:</p> <p>YES The bundle is to be produced at the late time</p> <p>Blank The bundle is to be produced as soon as the reports are ready</p>
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

Input Commands

The following table describes the input commands available on the Active Bundle List panels:

Command	Description
LEFT	Toggles between the primary and alternate active displays
LOCATE	<p>Scrolls to the entry whose name you specify as the operand of the command</p> <p>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.</p> <p>Valid entries are L, LOC, and LOCATE.</p>

Command	Description
REDISP	<p>Redisplays (or refreshes) a selection list with current information</p> <p>Since definition and active data can be concurrently updated and added by the CA-Deliver start task, batch jobs, and online users, data displayed on a selection list may become outdated. Recent changes and newly added data are obtained when the REDISP command is entered.</p> <p>The syntax of the REDISP command is as follows:</p> <p>REDISP [ON / OFF]</p> <p>Where:</p> <p>ON Automatically refreshes the display when you press Enter</p> <p>OFF Refreshes the display only when the REDISP command is entered</p> <p>The ON and OFF parameters are temporary overrides to the REDISP initialization parameter setting and are only retained for the duration of the session.</p> <p>If the ON/OFF parameter is omitted, the display is refreshed without altering the current ON/OFF state.</p> <p>For sorted lists, you must specifically enter the REDISP command to refresh the display.</p> <p>Valid entries are RED, REDISP, REF, and REFRESH.</p>
RIGHT	Toggles between the primary and alternate active displays
SELECT	<p>Selects the bundle identifier you specify as the operand of the command for display</p> <p>If the specified bundle identifier does not exist, an entry will be created for it.</p> <p>Valid entries are S, SEL, and SELECT.</p>

Command	Description												
SORT	<p>Sorts the Active Bundle List by bundle identifier, bundle status, and exceptional condition</p> <p>Up to two fields can be sorted.</p> <p>The syntax of the SORT command is as follows:</p> <p><code>SORT <i>field1 field2</i></code></p> <p>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.</p> <table border="1"> <thead> <tr> <th>Field Name</th> <th>Sort Sequence</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>BUNDLE</td> <td>Ascending</td> <td>Sorts by report identifier You can enter BUNDLE as BID or B.</td> </tr> <tr> <td>STATUS</td> <td>Ascending</td> <td>Sorts by bundle status You can enter STATUS as STAT or S.</td> </tr> <tr> <td>EXCPT</td> <td>Ascending</td> <td>Sorts by exceptional conditional You can enter EXCPT as EXC or X.</td> </tr> </tbody> </table> <p>To sort the selection list by exceptional condition, enter the command:</p> <p>Command <code>===> sort excpt</code></p> <p>To sort the selection list by status and bundle identifier, enter the command:</p> <p>Command <code>===> sort status bundle</code></p> <p>Once 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.</p> <p>If the SORT command is entered by itself without a field, the standard dynamic list which is sequenced by bundle identifier will be displayed.</p>	Field Name	Sort Sequence	Description	BUNDLE	Ascending	Sorts by report identifier You can enter BUNDLE as BID or B.	STATUS	Ascending	Sorts by bundle status You can enter STATUS as STAT or S.	EXCPT	Ascending	Sorts by exceptional conditional You can enter EXCPT as EXC or X.
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STATUS	Ascending	Sorts by bundle status You can enter STATUS as STAT or S.											
EXCPT	Ascending	Sorts by exceptional conditional You can enter EXCPT as EXC or X.											

Selection Codes

You can select one or more active entries 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.

Code	Description
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 bundle identifier, late time, wait for 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 will be set to asterisk (*) except for bundle identifier which will be filled with the identifier from the A primary command (if specified). When the filtering fields are changed, the active bundle list redisplay with entries that match the specification. If filtering data is specified for multiple fields, only entries matching all the filtering criteria will be 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 CA-Deliver 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 in the following table:

Command	Description
BANNERS	Displays a list of banner page members that you can browse or delete in the CA-Deliver database Valid entries are B, BAN, and BANNER.
PRSETS	Displays a list of printer setup members that you can browse or delete in the CA-Deliver database Valid entries are P, PR, and PRSET.
PANELS	Displays a list of online panel members that you can browse or delete in the CA-Deliver database Valid entries are O, PAN, PANEL.
END	Saves changes you have made on the panel, terminates the CA-Deliver 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 07/10/1994 10:22:41 $BLOADP
ATTR      07/17/1995 19:58:36 RMOBLOAD
BANBJ     07/17/1995 19:58:36 RMOBLOAD
BDFLTB    01/07/1999 13:20:16 RMOBLOAD
BDFLTD    01/07/1999 13:20:16 RMOBLOAD
BDFLTR    01/07/1999 13:20:16 RMOBLOAD
BNDLMAN1  08/04/1998 10:45:45 RMOBLOAD
CHG205    07/17/1995 19:58:36 RMOBLOAD
CNTLREC1  08/04/1998 10:45:45 RMOBLOAD
CNTLREC2  08/04/1998 10:45:45 RMOBLOAD
CRAIG1    07/10/1994 10:22:41 $BLOADP
DDNAME    07/17/1995 19:58:36 RMOBLOAD
DEFAULT   08/04/1998 10:45:45 RMOBLOAD
DEFAULT1  08/04/1998 10:45:45 RMOBLOAD
DEI804    07/17/1995 19:58:36 RMOBLOAD
DISTBNR   07/17/1995 19:58:36 RMOBLOAD
DJDEBAN   07/17/1995 19:58:36 RMOBLOAD
DJDEPRCT  07/17/1995 19:58:36 RMOBLOAD
ERRORS    01/07/1999 13:20:16 RMOBLOAD
I6724256  01/07/1999 13:20:16 RMOBLOAD

```

Fields

The following table describes the fields on the Banner Page Selection List panel:

Field	Description
Sel	Used to enter 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 table describes the input commands available on the Banner Page Selection List panel:

Command	Description
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 in the following table. Enter the selection code to the left of, and on the same line as, the banner page name to be selected.

Code	Description
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      06/15/1993 19:42:50 RMOPLOAD
HEX5A     08/03/1996 08:14:48 RMOPLOAD
PME       03/18/1992 09:22:16 RMOPLOAD
PRNTSETP 02/22/1993 18:25:32 RMOPLOAD
XEROX     05/08/1994 12:18:55 RMOPLOAD
***** BOTTOM OF DATA *****

```

Fields

The following table describes the fields on the Printer Setup Selection List panel:

Field	Description
Sel	Used to enter 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 table describes the input commands available on the Printer Setup Selection List panel:

Command	Description
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 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 in the following table. Enter the selection code to the left of, and on the same line as, the printer setup member name to be selected.

Code	Description
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 00323
Command ==>                                     Scroll ==> PAGE

Sel Name      ----- Last Modified -----
RMOJCLB 12/16/1999 15:04:01 RMOOLOAD
RMOPTB 12/16/1999 15:04:01 RMOOLOAD
RMOPTBA1 12/14/1999 21:39:12 RMOOLOAD
RMOPTBA2 12/14/1999 21:39:12 RMOOLOAD
RMOPTBB1 12/16/1999 15:04:01 RMOOLOAD
RMOPTBC1 12/16/1999 15:04:01 RMOOLOAD
RMOPTBDA 12/16/1999 15:04:01 RMOOLOAD
RMOPTBDB 12/14/1999 21:39:12 RMOOLOAD
RMOPTBDC 12/14/1999 21:39:12 RMOOLOAD
RMOPTBDD 12/14/1999 21:39:12 RMOOLOAD
RMOPTBDE 12/14/1999 21:39:12 RMOOLOAD
RMOPTBDF 12/14/1999 21:39:12 RMOOLOAD
RMOPTBDG 12/14/1999 21:39:12 RMOOLOAD
RMOPTBDH 12/14/1999 21:39:12 RMOOLOAD
RMOPTBDI 12/16/1999 15:04:01 RMOOLOAD
RMOPTBDJ 12/14/1999 21:39:12 RMOOLOAD
RMOPTBDK 12/14/1999 21:39:12 RMOOLOAD
RMOPTBDL 12/14/1999 21:39:12 RMOOLOAD
RMOPTBDM 12/14/1999 21:39:12 RMOOLOAD
RMOPTBDN 12/14/1999 21:39:12 RMOOLOAD
    
```

Fields

The following table describes the fields on the Online Panel Selection List panel:

Field	Description
Sel	Used to enter 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 table describes the input commands available on the Online Panel Selection List panel:

Command	Description
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 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 in the following table. Enter the selection code to the left of, and on the same line as, the online panel member name to be selected.

Code	Description
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

Instructions:

  Press ENTER key to confirm delete request.
  Enter END command to cancel delete request.

```

Fields

The following table describes the Instructions field on the Confirm Delete panel:

Field	Description
Title	Specifies the name and identifier of the field being deleted
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 redisplay 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 -----
Command ==>                                     Scroll ==> PAGE

Sel Jobname          -- Last Changed -- User   Description
==> *                *1999          *      *DETAIL*
BAJEDCSI             10/05/1999 11:16:58 DSTECK1 JOURNAL BATCH DETAIL-CSI
BAJEDMDF             12/06/1999 18:58:11 WSMITH1 MDF AJE DETAIL REPORT
BAJEDRS8             12/07/1999 10:16:56 MBISH01 RS8 AJE DETAIL REPORT
CPOSUP30            08/31/1999 16:24:48 DSTECK1 SUP DETAIL REPORTS
CPOSUP31            09/04/1999 12:13:41 DSTECK1 SUP MOEND DETAIL REPORT
RBKPDE12            08/02/1999 11:54:04 MBISH01 R12 DETAIL ACCT
RBKP6639            05/06/1999 12:53:01 MBISH01 AUTO LEASE DETAIL
RPAYQTR1            02/25/1999 10:56:23 CAYERS1 RS1 QTRLY DETAIL
RPAYQTR5            02/25/1999 11:08:02 CAYERS1 RS5 QTRLY DETAIL
RPAYTIP2            03/16/1999 13:51:40 CAYERS1 TIP DETAIL
TCCBR02             09/29/1999 10:33:45 MANDER1 BAD CREDIT DETAIL RPT
TTCWKY03            04/22/1999 10:26:42 CAYERS1 GRID STATION DETAIL
VPAYQTRC            12/30/1999 11:34:43 CAYERS1 CSI QRTLY DETAIL
VPAYQTR1            12/30/1999 11:35:00 CAYERS1 TNB QRTLY DETAIL
***** BOTTOM OF DATA *****

```

Special Filtering Characters

Special filtering characters, listed in the following table, are provided as pattern matching characters. All other characters will reference a match of that specific character. The special filtering characters are:

Character	Description
*	Matches any string of characters This character is a fuzzy match character that can reference any number of characters as well as no characters. For example: <ul style="list-style-type: none"> * 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 table describes various filtering specifications:

Filter	Description
*	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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