

User's Guide

Version 1 Release 1





User's Guide

Version 1 Release 1

Note! Before using this information and the product it supports, be sure to read the general information under notices.				

This edition applies to Version 1, Release 1 of IBM Output Manager for z/OS (product number 5655-F55) and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this book

This book contains usage and reference information for IBM Output Manager for z/OS. It provides detailed information on using IBM Output Manager for z/OS to automate online distribution of reports, and on capturing and managing historical report data and attributes.

Who should read this book

The *IBM Output Manager for z/OS User's Guide* is intended for report administrators and general users who require the ability to view reports online, and for database administrators or application developers who are responsible for ensuring that reports are sent and received by the appropriate people.

The authors of this book assume that most readers are data processing professionals familiar with the concepts of generating, viewing, distributing, and printing reports.

Conventions and terminology used in this book

In this book, IBM Output Manager for z/OS is referred to as "Output Manager" where the context makes the meaning clear.

Other conventions include:

- Monospaced font- Identifies example code.
- **Bold font** Identifies fields, commands, and values on product panels as well as labels that distinguish various types of information (such as Note).

How this book is organized

This book is divided into the following chapters:

- Chapter 1, *Introducing Output Manager*, provides a general description of how Output Manager can benefit your organization.
- Chapter 2, *Overview of Output Manager's interface*, provides an overview of the main menu options.
- Chapter 3, *Tutorial*, uses a bank teller's report to show you how to use Output Manager to perform several reporting functions.
- Chapter 4, *Setting preferences*, explains how to use the Preferences option to set terminal and display features.
- Chapter 5, *Viewing reports*, describes how to use the View Reports option to search through archives and to view reports.
- Chapter 6, *Using the administrative functions*, describes a number of administrative functions that you can use, including options for capturing sysout.
- Chapter 7, *Creating reports*, explains how to use the administrative functions that relate to creating rules, layouts, and conditions for custom reports.
- Appendix. Error messages are listed in an appendix.

Chapter 1. Introducing Output Manager

IBM Output Manager for z/OS automates report distribution and enables you to capture and manage historical report data and attributes. Output Manager helps you transform your organization's data into customized reports, enabling you to respond to current business trends and make strategic decisions.

With Output Manager, you can specify report attributes, collect report data, split system output into individual reports, perform online and batch print jobs, and deliver report data to end-users. Output Manager is designed to:

- Streamline the report distribution process.
- Help users track report attributes and distribution information.
- Enable business users to view data pertinent to their business needs.
- Leverage standard OS/390 data management facilities for capturing report data.
- Maintain historical information about production reports.
- Reduce costs associated with report distribution.

System overview

An Output Manager system consists of the Output Manager application (request processing and action definition), an ISPF interface, a rules definition language (responsible for sending reports to the SPOOL and report indexer), an archiver, and archive management. The reports are archived as MVS sequential files and the archive index is a DB2 table.

Output Manager can be used on any supported release of OS/390 or z/OS. It requires DB2 and TSO/ISPF.

Report viewing and indexing

Output Manager's ISPF dialog interface enables you to view captured reports. Report indexing capabilities enable you to access individual pages or groups of pages within a user-defined report.

Capturing system output data

By collecting historic SYSOUT data, your enterprise can efficiently trace business trends and chart future strategic direction. Output Manager enables you to capture and manage report data and attributes. Output Manager captures report data in sequential files and uses DB2 to create indexes of the reports that have been captured.

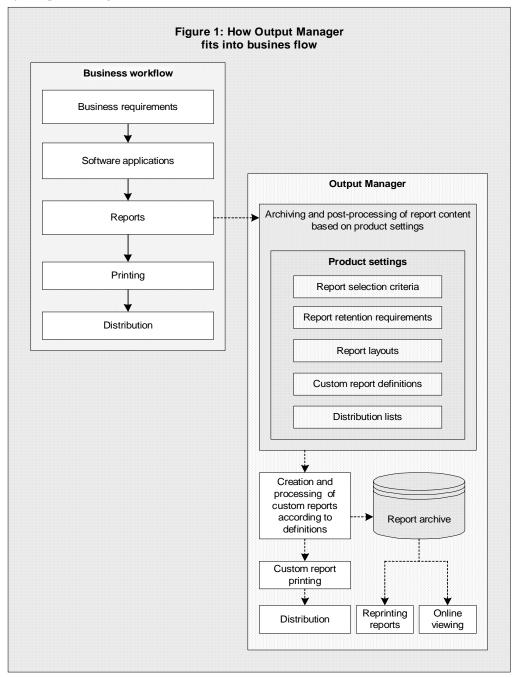
Report distribution

Efficient, accurate distribution of reports ensures the smooth operation of your printing facilities and reduces production costs. Output Manager's report distribution capabilities enable you to efficiently deliver reliable information to end users, so they can leverage information and make timely business decisions. Output Manager allows you to split your SYSOUT data into individual reports, based on criteria that you specify, and deliver the reports to the intended recipients.

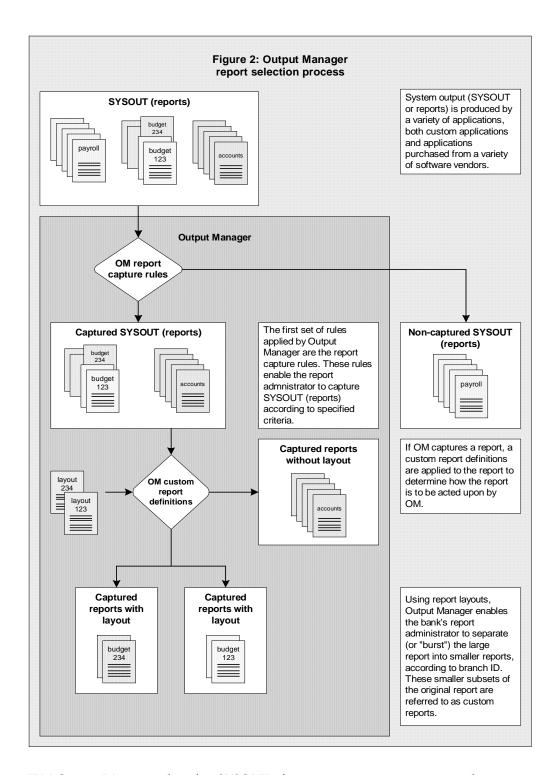
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Example of report processing

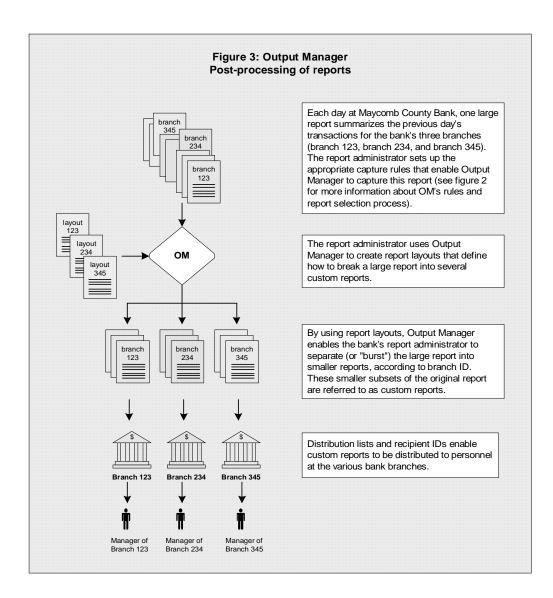
The following graphics depict how a bank report is processed from beginning to end by Output Manager.



Reports are generated by a variety of business applications. IBM Output Manager handles the archiving and post-processing of reports based on product settings such as report selection criteria, report retention requirements, report layouts, custom report rules, and distribution information. IBM Output Manager also enables report administrators to reprint reports and general users to view reports online.



IBM Output Manager identifies SYSOUT of interest using report capture rules. Interceptor rules enable the capture of SYSOUT based on information about pre-spool events (such as jobcard, step, and SYSOUT information) while selector definitions enable the post-spool capture of SYSOUT based on characteristics such as SYSOUT class. Custom report rules and report layouts are then used to further process captured reports.



Report capture rules

There are two types of report capture rules, interceptor rules and selector definitions. *Interceptor rules* enable users to specify the criteria by which SYSOUT is captured **prior to its reaching the spool**. *Selector rules* enable users to specify the criteria by which SYSOUT is taken **directly off the spool**.

Interceptor rules

IBM Output Manager monitors JES data management events and uses interceptor rules to determine whether or not any given event is of interest. If the event is of interest, IBM Output Manager then processes the SYSOUT. If the event is not of interest, IBM Output Manager ignores it and does not process the SYSOUT. Interceptor rules enable users to specify the criteria by which SYSOUT is captured prior to its reaching the spool (pre-spool).

Selector definitions

IBM Output Manager creates a subtask for each selector definition to register interest with JES. JES will then deliver output to Output Manager that matches the criteria

specified in a selector definition. Selector definitions enable users to specify the criteria used to select specific output types directly off the spool (post-spool).

Archive attributes

When Output Manager captures SYSOUT, it creates an archive dataset, which is a sequential file. To create the archive, Output Manager needs several pieces of information, such as:

- what to call the dataset (the data set name or DSN)
- where to allocate it (what unit name or SMS storage class)
- and how much space to reserve for the archive.

Output Manager gets this information from an archive attribute. A report administrator creates a set of archive attributes and links them to interceptor and selector rules. Then when a SYSOUT has been intercepted or selected, Output Manager knows what set of attributes to use when allocating the sequential file. Many rules can point to the same archive attribute.

One of the key elements of the archive attribute is the archive mask. It serves as a template for the dataset name that is to be created for this archive. Working with the security administrators and planning what to name the archives is a critical step in planning the use of Output Manager.

Another critical section is the SMS allocation parameters. The report administrator, working closely with the storage management group, can plan the data set usage of Output Manager.

Report selection rules

You create a report selection rule for each custom report. When a report (SYSOUT) is captured by an interceptor or selector rule, it is compared against the report selection rule to see if the report was produced by the step and DD combination specified in the report selection rule. When a match occurs, a basic report is created.

A basic report represents the entire SYSOUT produced by the application. A basic report will be listed under the View Reports option (V.R from the Output Manager main menu) as a *captured* report.

Once a basic report exists, due to the match, Output Manager will look to see if there are any custom report definitions that use the same layout as defined in this report selection rule. This is what causes the creation of the *custom* reports from the basic reports.

Report layout

The *layout* defines how the original report looks as produced by the application. A report layout has three (3) sub-components: Page, Area, and Field. Pages contain areas, areas contain fields, and fields are specific data on a report.

You create a page for each unique style of page in a SYSOUT. Many SYSOUTs have only one page style, while others have multiple page styles.

On each page, you create one or more *areas*. Areas are conceptually like rectangles. Imagine having the physical report page in front of you, then drawing rectangles around the different sections. For example, the first three lines are often report headings, the big area in the middle is the body of the report, and the two lines at the bottom are the footer. Often a report will have only one area, which is the same size as the page.

Fields represent particular data on the report. Some fields will be constant and will be used for identification purposes. For example, many reports have a report ID so the user of the report can communicate to the programmers about specific reports. Other fields may contain data, such as a branch ID, that identifies sub-reports within the basic report. These sub-reports can become custom reports.

Custom report

A *custom report* is a subset of the captured report. The custom report definition specifies the conditions that must be true to generate the custom report. The conditions are based on the value you specify for one or more fields that are part of the layout. For example, if the value in the LOCATION field is equal to SPRINGFIELD, then generate a custom report that only contains data that relates to SPRINGFIELD.

Usually more than one custom report will be defined for each basic report. In the bank report example, there are several branches within the bank report. Each branch is to have its own custom report. This means there would be one custom report definition for each branch, but they would all specify the same layout.

When a captured SYSOUT matches the job information in the report selection rule, the report layout that you created is read into memory, along with all of the custom report definitions for this basic report. Each page of the captured report, as defined by the report layout, is compared to the criteria in each of the defined custom reports to determine if this page is part of a defined custom report. What happens next depends upon whether the page matches any of the custom reports:

- If the page matches any of the custom reports, the page is placed, virtually, in the custom report.
- *If the page does not match any of the custom reports,* it is placed in the <undefined> report. The *<undefined>* report is a custom report constructed by Output Manager to catch all of the SYSOUT pages that do not fall into any of the defined custom reports. It is a collection of all of the "unused" pages from this SYSOUT.

Another possible report is referred to as <*no report*>. When the last page of the SYSOUT has been completed, a final scan is performed to see if any pages were found for each of the defined custom reports. If there were no pages for a specific custom report, a special virtual report with no data will be created. It will be listed under Captured Reports on the View Reports screen (option V.R from the main menu) as <no report>.

Although there is nothing for you to view, <no report> serves as a visual reminder that the application that normally produces this report did run, however no pages that matched the selection criteria for this specific custom report were found. This may be a normal or an exceptional condition, based upon the application. A <no report> helps you identify which specific custom reports may need more attention.

Recipient IDs and lists

Recipient IDs contain information about individuals or a generic location. The information in the recipient ID is used whenever a report is printed. It contains information like name, address, building, printer destination, sysout class and other information related to the printing of the report. It can also optionally contain an individual's USERID.

Distribution lists are groups of recipient IDs that are linked to custom report definitions to control the real time, reprint, or "reprint with distribution" functions. You can specify on the distribution list which recipients are to receive hardcopy.

Printer attributes

You can define attributes for a printer, then associate the attributes with a specific recipient ID. You can specify as few or as many attributes as you want from the following categories:

- general attributes, such as a printer name
- attributes associated with printing on a 3800 series printer
- PSF-related attributes
- other miscellaneous attributes

Printing Methods

Output Manager will print basic and custom reports. There are three major categories of printing:

- Real time printing
- Reprinting
- Local printing

Real time printing is only applicable to custom reports. It occurs at the time the SYSOUT from the application is being processed by Output Manager to create the virtual custom reports. Output Manager will use any assigned distribution list to determine which recipients are to receive hard copies of the report. For each recipient, a real time hard copy will be produced, based on the information contained in each of the recipients.

Reprinting allows the report administrator to reprint a custom report. There is also an option that allows the administrator to alter the distribution list, temporarily, while reprinting. This is referred to as reprint override. An additional option, reprint distribution, allows the administrator to temporarily direct a report to an alternate distribution list.

Local printing allows a user to print a custom report for themselves. In addition, a user can temporarily override the printer information to direct the printout to a different printer. This is referred to as *print override*.

The following table summarizes the printing methods:

Method of Printing	Description
Real time printing	A hard copy will be produced for each recipient in the distribution list that is associated with a custom report. This occurs in "real time", that is, at the time the SYSOUT from the application is being processed by Output Manager to create the virtual custom reports.
Reprinting	For use by report administrators to print a custom report again.
Reprint override	For use by report administrators to print a custom report again, but also to temporarily alter the distribution list.
Reprint distribution	For use by report administrators to temporarily direct a report to an alternate distribution list.

Method of Printing	Description
Local printing	Allows a user to print a custom report for themselves.
Print override	Allows a user to print a custom report for themselves, but also to temporarily alter the printer information. This is useful if the user is normally at one location, but is temporarily at a different location.

Chapter 2. Overview of Output Manager's interface

This chapter provides an overview of the IBM Output Manager for z/OS main menu and each of the main menu options. This will give you an idea of the many actions you can perform with Output Manager, however, you may find that you only use a few of these features on a regular basis.

The Output Manager main menu is shown below:

ommand ===		put Manager	
		Product name: subID	
Р	Preferences	Terminal and user parameters	
V	View Reports	Create and change reports	
А	Administrative Functions	Administer rules and reports	
I	Installation Verification	Verify installation	
Х	Exit		
Licensed 5655-J20 Copyright All right IBM is a Business	Materials - Property of IBM (C) Copyright IBM Corp. 200 (C) 2002 Rocket Software, so reserved. registered trademark of Int Machines Co.	2 Inc. ernational	

Each menu option is described below.

Option	Description
P - Preferences	Use the Preferences option to specify terminal and user parameters, such as colors and highlighting.
V - View Reports	Use the View Reports option to view reports.
A - Administrative Functions	Use the Administrative Functions options to create selection rules, report layouts, and custom reports.
I - Installation Verification	Use the Installation Verification option to ensure that Output Manager has been installed successfully.

Note: This is the main menu that report administrators will use. If you prefer, you can change the main menu to a different screen that fits your needs. For example, panel BJTPVIEW, which is the menu you see when you choose the View Reports option, could be the main menu for general users. Contact your system administrator if you want to change the main menu to a different screen.

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Preferences

You may want to define your terminal settings, such as use of color, highlighting, and brightness, before you do anything with Output Manager. If so, choose option P, Preferences, on the Output Manager main menu. The following window appears on the screen:

```
------ IBM Output Manager - User Preferences -------
Command ===>
 Enter your preferences below:
 Hiperlink Color . . . Yellow___ (Red, Pink, Green, Yellow
                                          Blue, Turquoise, White)
Hiperlink Hilite. . . . None_____ (None, Blink, Reverse, Uscore Hiperlink Intensity . . High____ (High Low)
 Line Command . . . . Turquoise (Red, Pink, Green, Yellow
                                         Blue, Turquoise, White)
 Line Command Hilite . . Uscore____ (None, Blink, Reverse, Uscore Line Command Intensity High____ (High Low)
        Press ENTER to save or CANCEL to bypass
```

You can change the text color, type of highlighting, and level of intensity (brightness) of any hiperlinks and line commands that appear on an interface screen. For more information, refer to Chapter 4, "Setting Preferences" on page 43.

View Reports

When you choose option V, View Reports, on the Output Manager main menu, the following screen displays:

```
Reports Archives Preferences Help
                  IBM Output Manager - View Selection
                                            Product name: subid
          Preferences
                                    Terminal and user parameters
          Reports
                                    Customized Reports
          Archives
                                    Search archives
                                    Exit view selection
      X Exit
```

You have several options on this screen. These are described in the table below.

Option	Description
P - Preferences	Enables you to view and change settings for terminal and user parameters.
R - Reports	Enables you to view custom reports.
A - Archives	Enables you to search the report archives for a specific report.

For more information on the View Reports options, refer to Chapter 5, "Viewing reports" on page 45.

Administrative Functions

To view a list of administrative options in Output Manager, select option A, Administrative Functions, on the Output Manager main menu, and press Enter. The following screen displays.

Rules	Custor	n Reports Printing Ger	neral Preferences Help
		IBM Output Manager -	Administrative Functions
Command	===>		
			Product name: subid
	Sysou	t identification and arc	chive data set attributes
	I	Interceptor Rules	Pre spool criteria
	S	Selector Definitions	Set selector criteria
	R	Report Selection Rules	Custom report selection rules
	Α	Archive Attributes	Maintain archive attributes
	Custor	n report definitions	
	L	Report Layouts	Define layout of basic reports
	С	Custom Reports	Custom report definitions
	Print	ing-related functions	
	J	Recipient Ids	Maintain recipient Ids
	D	Distribution Lists	Maintain distribution lists
	K	Printer Attributes	Maintain printer attributes
	Genera	al product functions	
	٧	Activity Monitor	View activities and exceptions
	Q	Product Status	Current status of the product
	Х	Exit	

All of the options on the Administrative Functions screen are described in the following table.

Option	Description			
Sysout Identification and Archive data set attributes				
I -Interceptor	Generates a rule-based list of pre-spool criteria, based on jobcard, step, and sysout information.			
S - Selector Definitions	Sets post-spool selection criteria for jobs that should be saved in archive data sets. You may want to have a different selector for each output class. For example, you may want one selector for class W, another for class X, etc. This enables you to improve performance. The selector subtask is "long lived", meaning it is active all the time, waiting for JES to give it a job.			
R - Report Selection Rules	Generates rules for selecting custom reports.			
A - Archive Attributes	Enables you to view and edit archive attributes.			
Custom report definitions				
L - Report Layouts	Provides a facility for creating and editing a layout for a custom report. This tells Output Manager how to format the report.			
C - Custom Reports	Enables you to specify the name of a new custom report and tie it to a specific report layout. You can also view a list of reports that have already been defined.			
Printing related functions				
J- Recipient IDs	Enables you to identify a person or department who should receive specific reports.			
D -Distribution Lists	Creates and maintains distribution lists that are assigned to reports. A distribution list is a collection of recipient IDs.			
K - Printer Attributes	Provides a facility for specifying and maintaining the printer attributes, such as FORM, UCS, CHARS, as well as AFP attributes, such as PAGEDEF and FORMDEF.			
General product functions:				
V - Activity Monitor	Enables you to view activities and exceptions.			
Q - Product Status	Check the current status of Output Manager.			

Each of these options is described in more detail in Chapter 6, "Using the administrative functions" on page 61.

Installation Verification

Choose option I, Installation Verification, on the Output Manager main menu to verify that the Output Manager installation was successful. When you choose Installation Verification, one of two events occur:

If the installation was successful, a message displays indicating that you are ready to use Output Manager. An example is shown below:

```
View Administration Preferences Help
                               IBM Output Manager
Command ===>
                                                  Subsystem: subid
            Preferences
                                       Terminal and user parameters
            View Reports
                                       Create and change reports
            Administrative Functions Administer rules and reports
            Installation Verification Verify installation
            Exit
 IBM Output Manager for z/OS is available
 Last verified at 09/25/2002 - 20:24:36 on system QP01
 Started task was BJTP, product name was BJTP
 This verification occurred at 09/27/2002 - 13:50:52 on system QP01
Started task is BJTP, product name is BJTP
```

If the installation was not successful, the failure will cause an activity exception to be generated. When this occurs, you can use SDSF to look at the error messages listed in the log. Possible error messages are:

Error Message	Description
started_task_name not active	A reason code and help panels will give you more information on what needs to be done to activate this product.
Get (or Update) control failed	This message usually indicates a product DB2 configuration issue, such as an unsuccessful bind, undefined tables, or a DB2 system that is not active. The exception in the SDSF log will indicate the type of problem that occurred.

Navigation commands and actions

IBM Output Manager for z/OS is a TSO/ISPF application and responds to standard TSO/ISPF commands.

SORT

When presented with a panel of scrollable or tabular data, you can sort the data by column using the SORT command. The command for sorting is:

SORT COLUMN NAME DIRECTION

where COLUMN_NAME is the name or number of the column by which you want to sort and DIRECTION can be either A (to sort data in ascending order) or D (to sort data in descending order).

You can refer to columns by the column name or number. You must type the column names as they appear on the column heading, except when the column name contains a space; you represent a space with an underscore (_). Column numbers are not labeled on the pane, they are numbered from left to right across the panel. The CMD column is column1 and columns to the right are numbered sequentially.

Data can be sorted in ascending (A) or descending (D) order. To specify sort order, append the A or D to the end of the SORT command. The default is ascending (A). For example, to sort column 2 in descending order, type:

SORT 2 D

in the command line and press Enter. Data will be sorted by column 2 in descending

FIND

Use the FIND command to find a unique string within a panel of data. The command structure for FIND is:

FIND ABC

If the specified string is found, the cursor moves to the first position of the found string. If the specified string is not found, the message:

Find string not found

displays. You should be as specific as possible when using the FIND command to ensure the correct return.

Scrolling

When data exceeds the size of the panel, indicators alert you that additional data exists outside the visible panel. There are four character spaces on the third line of the upper right-hand corner of the panel that are used to indicate a scrollable page. Pages may be scrollable horizontally, vertically, or both.

A plus sign (+) and/or minus sign (-) indicates that there is additional data vertically.

- The plus sign (+) indicates there is data below; use PF8 to scroll down.
- The minus sign (-) indicates there is data above; use the PF7 key to scroll up.

The less-than sign (<) and/or the greater-than sign (>) means there is additional data horizontally.

- The less-than sign (<) means there is additional data to the left; use PF10 to scroll to the left.
- The greater-than sign (>) indicates that there is additional data to the right, use PF11 to scroll to the right.

Pull-down menus

The Output Manager interface uses pull-down menus to offer more options to you. To access a menu:

- 1. Look at the top row of a screen to see what words are displayed. These words are used to access pull-down menus that are available to you. The menus may be different on each screen.
- Place the cursor on the capital letter of a menu word, such as the "P" in "Preferences", and press Enter.

3.	A list of options will display for this menu. If there is more than one option, the options are numbered. Type the number of the option you want, then press Enter.

Chapter 3. Tutorial

This chapter uses a sample bank teller's report to help you understand how to use IBM Output Manager for z/OS (Output Manager). The specific skills covered in this chapter include:

- setting preferences
- creating rules
- creating a report layout
- creating a custom report
- selecting recipient IDs to receive the report
- and distributing the report.

The bank teller's report that will be used throughout this tutorial is member BJTBANKR located in highlevel .SBJTSAMP where *highlevel* is the highlevel qualifier assigned to the product by your system administrator.

Note: Member BJTBANKR is JCL that will print the sample bank report.

For easier reading, IBM Output Manager for z/OS will be referred to simply as "Output Manager" throughout this tutorial.

Starting Output Manager

To access the interface for Output Manager, you must execute the product. Contact the person who installed Output Manager to find out the name and steps you should follow to execute Output Manager.

The first screen you will see is the Output Manager main menu appears. Press Enter to remove the copyright statement. The main menu is shown below:

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```
View Administration Preferences Help
-----
                            IBM Output Manager
Command ===>
                                             Product name: subid
            Preferences
                                     Terminal and user parameters
            View Reports
                                     Create and change reports
            Administrative Functions Administer rules and reports
            Installation Verification Verify installation
            Exit
 Licensed Materials - Property of IBM
 5655-J20 (C) Copyright IBM Corp. 2002
 Copyright (C) 2002 Rocket Software, Inc.
All rights reserved.
 IBM is a registered trademark of International
 Business Machines Co.
Rocket is a registered trademark of Rocket Software, Inc
```

Each menu option is described below.

Option	Description
P - Preferences	Use the Preferences option to specify terminal and user parameters.
V - View Reports	Use the View Reports option to view existing reports.
A - Administrative Functions	Use the Administrative Functions options to administer rules and reports.
I - Installation Verification	Use the Installation Verification option to run a check to ensure that Output Manager is successfully installed.

Setting preferences

You may want to define your terminal settings, such as use of color, highlighting, and brightness, before you do anything with Output Manager. To change your terminal settings, refer to Chapter 4, "Setting Preferences" on page 43 for details.

Note: "Preferences" is an optional feature and is not required to use Output Manager.

Creating SYSOUT rules

The first step in setting up Output Manager to manage the archiving of system output (SYSOUT) is to create rules that specify what is to occur when various SYSOUT data is captured. There are different types of rules you can establish for selecting SYSOUT:

- Interceptor rules. When a job opens the SYSOUT, an interceptor sees that event and acts on the SYSOUT at that point. This is considered a pre-spool event.
- Selector rules. A selector functions in a manner similar to a printer. It is a long-term task that waits for JES to assign jobs and looks for the appropriate SYSOUT to take off the spool. This is considered a post-spool process. For example, you could have a selector rule for each SYSOUT class or for specific jobs.

You can make as many rules as you want. When an event occurs, the rules are scanned from top to bottom looking for a match, so the order of rules is important. If there's no match, nothing happens with that SYSOUT. If there is a match, Output Manager acts upon the SYSOUT based on the directions in the rule.

To set up rules, follow these steps:

- 1. Type **A** for Administrative Functions on the Output Manager main menu.
- Type either I for Interceptor, or S for Selector, depending upon which type of rule you want to create.

Note: If this is the first rule to be created, a pop-up window informs you no rules exist, but you can create one. Press Enter to create a new rule.

3. Type either E (edit) in the CMD line next to an existing rule, or I in any CMD line to insert a new rule. The following screen displays:

```
File Help
                 IBM Output Manager - Interceptor Rules
Command ===>
                                                                                More: +
   Control fields
     Disposition . . DELETE
                                     (Delete, Keep)
     Exists.... REPLACE
                                      (Leave, Replace, Extend)
     Combine Sysout. NO
Insert Marker . NO
Capture Attrs . NO
Archive Attr . :

Canadied or Disabled)

(Max lines to allow in archive)
(Combine Sysout into single archive)
(Insert marker when combining)
(Yes or No)
   Job Selection criteria
     Job Type. . . . ALL
                                     (All, Batch, Appc, Tso, Stc)
     Job Class . . .
     Job Name. . . .
     Job ID. . . . .
     Proc Name . . .
     Step Name . . .
     Proc Step . . .
     Step Number . .
     Program . . .
                                     (from the EXEC PGM= in the JCL)
     DD Name . . .
     Programmer name
     User Id . . . .
                                     (RACF user id)
     Group . . . .
                                     (RACF group id)
     Schenv. . . .
     Account 1 . . .
     Account 2 . . .
     Account 3 . . .
     Account 4 . . .
     Account 5 . . .
      Account 6 . . .
     Account 7 . . .
     Account 8 . . .
```

For your reading convenience, many fields are shown on the screen above. When using Output Manager, you must Page Down to view additional fields.

```
Sysout selection criteria
  Sysout Class. .
  Destination . .
  Form 1. . . . .
  Form 2. . . .
  Form 3. . . . . Form 4. . . . .
  Form 5. . . .
  Form 6. . . . .
  Form 7. . . . .
  Form 8. . . . .
  Prmode1 . . . .
  Prmode2 . . . .
  Prmode3 . . .
  Prmode4 . . . .
  FCB . . . . . .
  UCS . . . . . .
  Flash . . . .
  Writer....
JES Queue . . . ALL
                               (External writer name)
                               (All, External (writer), Write, Hold)
```

- 4. There are three major sections on the edit/insert rules screen. For this step, focus on the bottom two sections where you can enter selection criteria:
 - Job selection criteria
 - Sysout selection criteria

You do not need to type a value in every field, only the ones that you want to use for this rule. For example, if you only want this rule to apply to batch jobs, you would type BATCH in the Job Type field. If you only want this rule to apply to jobs with a SYSOUT class of "A", you would type A in the Sysout Class field. For details on what values to enter in any of these fields, refer to "Adding or Editing Rules" on page 64.

After you define SYSOUT selection criteria, you need to specify the actions you want to occur when this rule is applied. To specify an action, type one or more values in the "Control fields" section at the top of the edit/insert rules screen. The table below describes the Control fields and values you can enter:

Option	Description
Disposition	Indicate what to do with the SYSOUT when the data is archived. Valid values are:
	• Keep - Keep the data on the spool, but make a copy of it for the archive.
	Delete - Remove the data from the spool after making the archive copy.
	Note: For an interceptor rule (pre-spool), Keep sends the data to the spool and simultaneously makes a copy of the data for the archive. Delete prevents the data from going to the spool, but makes a copy of the data for the archive.
Exists	Indicate what to do if the archive already exists. Valid values are:
	Replace - Replace the data in the archive with the new data.
	Leave - Leave the old data in the archive and do not update it. Keep the new data on the spool.
	• Extend - Write the new data at the end of the old archive data set.

Option	Description
Status	Indicate if you want the rule to be enabled (active) or disabled (inactive).
Line Limit	Type a number to indicate the maximum number of lines that can be written to the archive.
Combine Sysout	Type Y or N to indicate whether you want to combine multiple SYSOUTs from a single job into a single archive. For example, let's assume you have a selector rule for class "L", your jobs all use MSGCLASS=L for the JCL, and all of the utility sysout specified SYSOUT=*. This would be a good candidate for combining the sysout, as all of the DDs in all of the steps that specified SYSOUT=* would be combined with the JCL messages into a single archive.
Insert Marker	Type Y or N to indicate whether you want a marker inserted at the location where the SYSOUTs were combined into a single archive. Note: This field is only valid if you specified "Y" in the Combine Sysout field.
Capture Attrs	This field is planned for a future release. Indicate if you want the information associated with the SYSOUT, such as printer attributes, to be saved in the archive with the data.
Archive Attr	(Display only) This field displays the name of a defined archive attribute that is assigned to this rule. You do not type anything in this field.
	 Notes: For more information on archive attributes, refer the next section, "Defining Archive Attributes". For instructions on how to tie an archive attribute to a
	rule, refer to "Combining rules and archives" on page 23.

When you are done, press Enter to save your entries, then press PF3 (End) to exit this screen.

Defining Archive Attributes

The next step is to provide detailed information about the archive that will be used for SYSOUT data. When Output Manager captures SYSOUT, it creates an archive dataset, which is a sequential file. To create the archive, Output Manager needs several pieces of information, such as:

- what to call the dataset (the data set name or DSN)
- where to allocate it (what unit name or SMS storage class)
- and how much space to reserve for the archive.

Output Manager gets this information from an archive attribute. A report administrator creates a set of archive attributes and links them to interceptor and selector rules. Then when a SYSOUT has been intercepted or selected, Output

Manager knows what set of attributes to use when allocating the sequential file. Many rules can point to the same archive attribute.

One of the key elements of the archive attribute is the archive mask. It serves as a template for the dataset name that is to be created for this archive.

Choose option A, Archive Attributes, on the Administrative Functions menu (option A.A from the Output Manager main menu) to define an archive that you want to use to archive SYSOUT data. If you use the E (edit) or I (insert) line command next to an existing archive, or if you are using the Archive Attributes option for the first time, the following screen displays:

IBM Output Manager	- Archive Attributes Details
Command ===>	SCROLL ===> PAGE More: +
Descriptive data	More: +
·	
Name	
Archive Mask	
Retention Period	(Number of days to retain)
Allocation attributes	
Management Class	
Storage Class	
Vol Sers	(Up to 5)
Device Type	(Generic Unit or device address)
Data Class	
Space Units	(Blocks, Tracks, Cylinders,
	Kilobytes, Megabytes, Bytes or Records)
Average record unit	(M, K, or U)
Primary quantity	(in above units)
Secondary quantity 0	(In above units)
Block Length 0	(In above units)
Archive disposition	
Normal Disposition	(Catalog, Keep)
Abnormal Disposition	(Catalog, Keep, Delete)
Release Unused Space YES	(Yes release, No do not release)

If you used the E (Edit) line command, some of these fields will already contain data. All of the fields are shown on the example screen above for your reference. For more information on what to enter in these fields, refer to "Archive Attributes Details" on page 73.

Combining rules and archives

The next step is to associate each rule with a specific archive so that the SYSOUT data is saved to the correct archive. To do this, follow these steps:

- 1. On the Administrative Functions menu (option **A** on the Output Manager main menu), choose either **I** for Interceptor rules or **S** for Selector rules. When you press Enter, a list of those rules displays.
- 2. Use the **P** (prompt) line command next to a specific rule on the "List of *name* rules" screen, where *name* is either Interceptor or Selector, to display a list of archives that already exist. This is the Archive Attribute Selection screen. You can then select an archive from this list to associate with the selected rule.

Note: If you do not have any archives defined, Output Manager will prompt you to add one. You can also use the **A** (add) line command to create an archive.

3. Type the **S** line command next to the archive you want to select, and press Enter. The "S" changes to a slash (/). Press F3 (End) to leave this screen. The "List of *name* rules" screen displays, only this time the name of the archive you selected is part of the information displayed for the rule. This lets you know that you successfully tied this rule to a specific archive.

Press F3 again to exit the "List of *name* rules" screen. A pop-up window prompts you to save or cancel this request. If you do not want this archive to be tied to this rule, type **CAN** to cancel the request. Otherwise, press Enter to save what you have done.

Activate the rules

Once the rules and archives are tied together, your system administrator must activate the rules by using the MODIFY command with the Output Manager started task. The command format is:

/F xxxxx, POLICY ACTIVATE

The xxxxx refers to the name of your started task. Contact your systems administrator for assistance.

Introducing Basic and Custom Reports

In addition to archiving SYSOUT data, you can also use Output Manager to create *basic* and *custom reports*. A basic report identifies the complete contents of an archive. A custom report could include the entire contents of an archive, but typically identifies a portion of an archive. It essentially allows Output Manger to divide a single "physical" archive into one or more "logical" custom reports. The custom report

definition dictates what conditions must be true to capture a page of SYSOUT for the custom report.

For example, let's assume that a state-wide bank runs a monthly report listing every transaction that occurred at the bank. In addition to capturing the entire report, referred to as a *basic* report, you can break this large report into smaller reports, referred to as *custom* reports, so that each branch of the bank only receives the list of transactions that were completed at the branch. The Branch ID could be used to determine which pages of the SYSOUT go to each bank. The Branch ID would be the "condition" used to break the large report into custom reports.

You can view or print reports from the Output Manager screens for Captured Reports and Archived Reports (options V.R and V.A from the Output Manager main menu).

The minimum requirements for defining a custom report are:

- Report Layout (option A.L from the Output Manager main menu)
- Custom Report Definition (option A.C from the main menu)
- Report Selection Rule (option A.R from the main menu)

In addition, if you will be distributing a printed custom report, you will need to define the following components:

- Recipients (option A.J from the main menu)
- Distribution list containing recipients (option A.D from the main menu)

All of these steps are described in this chapter and in Chapter 7, "Creating Reports" on page 107.

Creating a report layout

The first step in creating a custom report is to design a *report layout* that shows how the original report looks as produced by the application. A layout is similar to a map that shows where data is placed on the page. In the layout, you need to define fields that will be used to associate pages containing these fields to a custom report.

There are three sections that you can define for a layout: a page, one or more areas for that page, and one or more fields for each area.

- Page A page is the top level. You define a unique style for a page. You can also have more than one page if there are different styles in the same report (SYSOUT). For example, you might have a "letter" page that you use for form letters and an "invoice" page for the bill you send to customers.
- Area An area is the second level. Areas are like rectangles on a page that you define. For example, you could define Area 1 as the "title" area that contains the first two lines of the report and Area 2 as the "subtitle" area that contains the next two lines (3 and 4).
- Field A field is the last level. A "field" is a specific point in an area. For example, for Area 1 you could define a "Report ID" field that starts at line 2, column 80, while in Area 2 you define a "Branch Name" field that starts at line 4 in column 100, and a "Branch ID" field that starts in column 106.

You must familiarize yourself with the report (SYSOUT) so that you can properly establish position and size information for fields you define in the layout.

There are two ways to access the Layout screen to create a new report layout:

- Method 1
 - 1. Choose option L, **Report Layouts**, on the Administrative Functions menu (option A.L from the Output Manager main menu)

2. Type the I (insert) line command to display the Layout screen where you can create a new report layout.

Method 2

- 1. Choose option R, **Report Selection Rules**, on the Administrative Functions menu (option A.R from the Output Manager main menu).
- 2. Type the ${\bf P}$ (prompt) line command next to a rule to display the Layout Selection screen.
- 3. Type the **A** (add) line command to display the Layout screen where you can create a new report layout.

```
File Preferences Help
        IBM Output Manager - Layout
                                                 Row 1 of 3
Command ===>
                                               SCROLL ===> PAGE
Layout name . . . _
Print control . . DCB____
                                  (DCB, ASA, Machine)
Line count . . . 0
                                  (Number of lines per page)
Description . . .
Line Commands: Edit, Insert, Delete, Insert Area(IA), Insert Page(IP)
CMD Name
           Type
                 Page Area Relative section Relative position
  _ Page 1
           Page
 ___ Area 1
           Area
                 Page 1
  Field 1 Field Page 1
```

To create a layout, perform the following steps:

- 1. Type a name for this layout in the **Layout name** field.
- 2. Use the line commands to add pages, areas, and fields to design your report.
 - *Pages*. You can have one or more pages in your report, each with a unique style. For example, you might have a letter page and an invoice page that are part of the same report.
 - *Areas*. On each page, you can define specific areas, such as a heading area or a title area, to organize information on a page. An area is like a rectangle on a page that you define by specifying the starting column and row, line width, and number of lines (height) in the area.
 - Fields. A field is a section of an area, such as a column heading, a date field, or a report ID, that defines where the data starts. For example, in Area 1, you might have a field called "Report Title". In Area 2, you may have a field called "Report ID" and another called "Branch ID".

Insert a Page

If you type **IP** (insert page) in the bottom half of the Layout screen, the following screen displays:

```
File Preferences Help
           IBM Output Manager for z/OS - Layout Page No rows to dis
Layout name . . : LEW-test
Print control . : DCB
                                           (DCB, ASA, Machine)
Line count . . : 0
                                           (Number of lines per page)
Page name . . . .
CMD Name
                               Relative section Relative position Column
              Type
                     Area
```

At this point, all you need to do is type a name for this page in the Page name field and press Enter to continue. Press PF3 (End) to return to the previous screen.

Edit a Page

If you use the E (edit) line command next to a page on the Layout screen, the following screen displays:

```
File Preferences Help
          IBM Output Manager - Layout Page
                                                           Row 1 of 2
                                                         SCROLL ===> PAGE
Command ===>
Layout name . . : TEST
Print control . : DCB
                                          (DCB, ASA, Machine)
                                          (Number of lines per page)
Line count . . : 0
Page name . . . Page 1
CMD Name
                              Relative section Relative position Column
             Type
                     Area
    Area 1
                                                                     0
    Field 1 Field Area 1
**************************** Bottom of Data **********************
```

You can design a page using this screen. For details on what values to enter in these fields, refer to "Designing a report layout" on page 110.

Insert an Area

If you type the IA (insert area) line command in the bottom half of the Layout screen, or an **E** (edit) next to an Area, the following screen displays:

```
File Preferences Help
           IBM Output Manager for z/OS - Layout Area
                                                             No rows to dis
Layout name . . : any name
Page name . . . : thispage
Area name . . . areaname
Area row . . . 0
                      Area column . . 0
                                              Relative area name .
                                              Relationship . . . .
Area width . . . 0
                      Area height . . 0
                      Relative section Relative position Column Line
CMD
   Name
              Type
```

You can design an area using this screen. You must define an area (row, column, width, height) before you can define a field for that area. For details on what values to enter in these fields, refer to "Designing a report layout" on page 110.

Insert a Field

If you type I (Insert) in the CMD line next to an Area on the bottom half of the Layout screen, the following screen displays:

```
File Preferences Help
                   IBM Output Manager for z/OS - Layout Field
Layout name . . : LEW-test
Page name . . . : Monthly
Area name . . . : Names
Area row. . . . : 2
                                                Relative area name :
                       Area column : 0
Area width . . : 0
                       Area height : 0
                                                Relationship . . . :
Field information
  Name . . . . . . . . . . . . . . . .
  Relative field name . . . .
  Relative field relationship .
                                              (Diaganol, Below, Adjacent)
 Starting column . . . . . . 0
 Starting line . . . . . . . 0
  Length . . . . . . . . . . . 0
  Lines . . . . . . . . . . . . 0
  Number of times to repeat . . 0
  Constant data at position . . No
                                              (No, Yes)
  Heading name . . . . . . .
```

You can design a field for an area using this screen. For details on what values to enter in these fields, refer to "Designing a report layout" on page 110.

When you are done designing your layout, press Enter, then F3 (End) to return to the Layout Selection screen.

Creating a Custom Report Definition

The first time you choose option C, Custom Reports, on the Administrative Functions menu (A.C from the Output Manager main menu), a window displays asking if you want to create a custom report. If you press Enter to continue, the following screen displays:

Note: You also see this screen if you use the I (insert) line command on the Custom Reports screen.

The table below describes the fields on this screen:

Option	Description
Report name	Type up to 24 characters for the name of the custom report.
Contiguous	Indicate whether the report pages can be viewed consecutively (Yes) or whether the pages are scattered throughout the report (No).
Description	Type up to 60 characters to describe this custom report.
Layout	When a layout is assigned to this report through the Links menu at the top of the screen, the name of the layout displays in this field.
Distribution	When a distribution list is assigned to this report through the Links menu at the top of the screen, the name of the distribution list displays in this field.

Specifying field-condition-value

Next, you must specify the conditions that must be true to create this custom report. This is referred to as the *custom report definition*. You do this by typing the name of a field from the report layout, an operand, and a value. For example, if the field LOCATION is equal to (EQ) the value of SPRINGFIELD, then generate this custom report. Only fields that were defined in the report layout can be used in the custom report definition.

To enter values for field conditions, type **ADD** in the Command line and press Enter. The following screen displays:

	IBM Output Manager -	Report	No rows to dis
Comman	d ===> ADD		SCROLL ===> PAGE
Report	name Bank report#1		
Contig	uous YES	(Yes or No)	
Descri	ption Bottom line total	I	
Layout	: Monthly report		
Distr Line	+ Repo	ort Condition Entry	+ I
CMD	Command ===>		
	Field Condition		
	BRANCHID EQ	123	
	BRANCH EQ TOTAL GT	Peoria	
	TOTAL GT	0	
			

Logically, the custom report is made up of "n" entries identifying which fields from the report layout should contain what values in order for this page to qualify as part of this custom report. The condition is how it qualifies, such as equal to (EQ), greater than (GT), and so on.

Note: Only the fields that have been defined in the report layout associated with this custom report can be used on this screen. Do not specify fields on this screen if you have not defined them in the report layout.

The table below describes what to enter in these fields:

Option	Description
Connector	This field indicates "and" or "or" as the connector for this field to another field.
Field	Type up to 8 characters for the name of the field in the report.
Condition	Type one of the following qualifiers:
	EQ - equal to
	GT - greater than
	GE - greater than or equal to
	• LT - less than
	LE - less than or equal to
	NE - not equal to
Value	Type up to 40 characters for the value associated with this field.

In this pop-up window, you can enter up to eight (8) lines of field/condition/value entries. Each line in the group of eight lines is considered to be connected to the other lines in the group with an "and" connector. If you then use the (I)nsert line command to add more fields, the first group of fields is connected to the second set of fields with an "or" connector.

Look at the following example.

```
----- Report Condition Entry -----
Command ===>
     Field Condition Value
     BRANCHNM EQ
BRANCHID EQ
                     BRANCH
                     CHERRY
```

On this screen, there are two entries defined for this group. The first entry shows that field BRANCHNM must be equal to BRANCH. The second entry shows that the field BRANCHID must be equal to CHERRY. These two entries are connected with an implied "and", so that both entries must be true for this page to be part of the report.

Now, let's assume you added two more entries in a different group, as shown below:

```
----- Report Condition Entry
Command ===>
    Field Condition Value
    BRANCHID EQ
                 BRANCH
                 WOOD
```

In the second group, the first entry shows field BRANCHNM must be equal to BRANCH and the BRANCHID must be equal to WOOD in order for this page to be part of the report.

After making and saving all four of these entries, the Custom Report screen would look like this:

```
File Links Preferences Help
              IBM Output Manager - Report
                                                Row 1 of 4
Command ===>
                                                SCROLL ===> PAGE
Report name . . . Bank - report #1
Contiguous . . . Yes
                                  (Yes or No)
Description . . . Monthly report
Layout ...:
Distribution .:
Line Commands: Edit, Insert, Delete
    Connector Field
                     Condition Value
             BRANCHNM EQ
                              BRANCH
                              CHERRY
             BRANCHID EQ
      and
      or
             BRANCHNM EQ
                              BRANCH
             BRANCHID EQ
                              WOOD
      and
| Entry saved |
```

Notice that the first two fields are connected with an "and", while the last two fields are connected with an "and". What connects the first set of fields to the second set of fields is an "or". This indicates that if BRANCHNM=BRANCH and BRANCHID=CHERRY OR if BRANCHNM=BRANCH and BRANCHID=WOOD, this page is part of the report.

Selecting a custom report

To view an existing custom report, type C for Custom Reports on the Administrative Functions screen (option A.C from the Output Manager main menu). The Reports screen displays a list of custom reports that you have already created:

IBM Output Manag	ger - Rep	orts	Row 1 of 60
Command ===>			SCROLL ===> PAGE
ine Commands: Edit, Insert, I CMD Name	Delete Type	Contiguous	+> Layout
ivp testing-3	Custom	Yes	ivp testing
Ash	Custom	Yes	IVP
Cedar	Custom	Yes	IVP
Cherry	Custom	Yes	IVP
Cypress Oak	Custom	Yes	IVP
Maple	Custom	Yes	IVP
Post Oak	Custom	Yes	IVP
REPORT_R0000004	Basic	Yes	
REPORT_R0000005	Custom	Yes	LAYOUT_L0000005
REPORT_R0000006	Custom	No	LAYOUT_L0000006
REPORT_R0000007	Custom	Yes	LAYOUT_L0000007
REPORT_R0000008	Custom	Yes	LAY0UT_L0000008
REPORT_R0000009	Custom	Yes	LAYOUT_L0000009
REPORT_R0000010	Custom	Yes	LAYOUT_L0000010
REPORT_R0000011	Custom	No	LAY0UT_L0000011

The table below describes the "for display only" fields on this screen:

Option	Description
Name	The name of the custom report.
Туре	Indicates the type of report:
	Custom - A report layout is associated with this custom report, so only pages matching the conditions specified in the custom report (field/condition/value) are included in the report.
	Basic - A report layout has not been assigned to this custom report, so all of the pages are included in the report. Any conditions you may have specified for the custom report (field/condition/value) are ignored.
Contiguous	Indicates whether the report pages can be viewed consecutively (one after another) or whether the pages are scattered throughout the report.
Layout	The name of the report layout associated with this custom report.
Distribution	The name of the distribution list that is assigned to this report.
Description	Describes the report.

Creating a report selection rule

The last step is to create a report selection rule for processing a specific custom report. The purpose of a report selection rule is to identify what job, DDname, and step are going to produce the report.

To create a report selection rule, choose option R, Report Selection Rules, on the Administrative Functions menu (option A.R from the Output Manager main menu). What happens next depends upon whether report selection rules already exist:

- If no report selection rules have been created, a pop-up window appears asking if you want to create a rule. Press Enter to continue.
- If one or more report selection rules already exist, use the I (insert) line command to create a new rule. Otherwise, you can select an existing rule.

```
IBM Output Manager - Report Rules
Command ===> _
 Control fields
    Status . . . Enabled (Enabled or Disabled)
    Layout Name . :
  Job Selection criteria
    Report Name . . ____
    Job Name. . . . ___
    Proc Name . . . _
    Step Name . . . __
    Proc Step . . . ____
    Step Number . . __
    Program . . . . ____
                               (from the EXEC PGM= in the JCL)
    DD Name . . . . ____
```

Refer to "Report Selection Rules" on page 130 for details on how to enter data in these fields. When you are done, press Enter to save your data, then press F3 (End) to display the "List of Report Rules" screen.

Combining the rules, layouts, and reports

To generate a custom report, you must associate a report layout with a specific custom report, and a custom report with a specific report selection rule.

Tie a rule to a layout

Follow these steps to tie a report selection rule to a report layout.

Choose option R, Report Selection Rules, on the Administrative Functions menu (option A.R from the Output Manager main menu).

Type the **P** (prompt) line command next to the rule that you want to tie to a layout, and press Enter. The following screen displays:

```
-----+
Command ===>
                           SCROLL ===> PAGE
 line cmds: Select, Add, View, Edit, Delete
CMD Name
  _ doc test
   ivp testing
   weekly
   IVP
   LAYOUT L0000003
   LAYOUT_L0000004
   LAYOUT_L0000005
   LAYOUT_L0000006
```

3. On the Layout Selection screen, type the **S** (select) line command next to the layout you want to associate with this rule, and press Enter. The "S" changes to a slash (/). Press F3 (End) to save this action and return to the previous screen.

Tie a report to a layout

To use the custom report, you must associate this report with a specific report layout. To do this, follow these steps:

- Choose option C, Custom Reports, on the Administrative Functions menu (option A.C from the Output Manager main menu).
- Type E (Edit) next to a custom report. An example of a custom report is shown below.

```
File Links Preferences Help
                                                Row 1 of 3
          IBM Output Manager - Report
Command ===>
                                                SCROLL ===> PAGE
Report name . . . Ash
Contiguous . . . Yes
                                 (Yes or No)
Description . . . Ash Branch
Layout . . . :
Distribution .:
Line Commands: Edit, Insert, Delete
CMD Connector Field
                     Condition Value
                              Tree House Bank Confidential
             header
                     E0
      and
             branchhd EQ
                              Branch
             branchid EQ
                              Ash
```

3. Place the cursor on the "L" in the **Links** pull-down menu at the top of the screen, and press Enter. The following menu displays:

```
File Links Preferences Help

    Choose a Layout

                                              Row 1 of 3
       2. Choose a Distribution List
                                             SCROLL ===> PAGE
       3. Edit the Layout
      4. Edit the Distribution List
       Description . . . Ash Branch
Layout . . . :
Distribution .:
Line Commands: Edit, Insert, Delete
CMD Connector Field Condition Value header EQ Tree I
                   EQ Tree House Bank Confidential
EQ Branch
     and
            branchhd EQ
     and branchid EQ
                          Ash
```

Type 1 to select Choose a Layout, and press Enter. Another screen displays that contains a list of report layouts.

```
-----+
                           SCROLL ===> PAGE
line cmds: Select, Add, View, Edit, Delete
CMD Name
  doc test
  _ ivp testing
  _ weekly
  _ IVP
   LAYOUT_L0000003
  _ LAYOUT_L0000004
  LAYOUT_L0000005
LAYOUT_L0000006
```

Type S (Select) next to a report layout and press Enter. The "S" is replaced with a slash (/). Press PF3 (End) to return to the Report screen. The Layout field on this screen now displays the name of the report layout that you selected. This indicates that the layout is now tied to the custom report.

Maintaining recipient IDs

To view a list of valid IDs of people who will receive a report, select option J, Recipient IDs, on the Administrative Functions menu (option A.J from the Output Manager main menu), and press Enter. The sections below describe how to add a new recipient ID and how to access an existing ID.

Adding a new ID

The following window displays if no recipient IDs have been defined or when you choose to add a new ID with the A line command:

```
-----+
Command ===>
 No recipients have been found:
  Press enter CREATE a new recipient
        or CANCEL to exit
```

To add an ID, press Enter. Otherwise, type CANCEL to exit. If you press Enter, the following screen displays:

```
File Links Help
______
               IBM Output Manager - Recipient Details
                                         SCROLL ===> PAGE
                                                             More: +
Descriptive data
   Name . . .
Name Out
                    (Yes,No ... generate name as outputcard)
                                   (MVS Userid)
   Userid
   Department _
   Room . . . _
   Building .
   Address .
  Report behaviours
   Dest . . . __
                                              (Jes printer destination)
   Class . . _ (SYSOUT class to print to)
Groupid . _ (... to group like reports
Copies . 0 (Number of copies to print)
Duplex . _ (No,Normal,Tumble)
                                   (... to group like reports together)
                                   (Number of copies to print)
   Duplex . . ____
   Burst . . ___
                                   (Yes, No ... Physically burst on 3800)
   Label . . ___
                                   (Yes, No ... Security label)
   Sys Area . ___
Print Attr ___
Rept Title ___
                                   (Yes, No ... System areabel)
                                   (Printer attributes)
```

You must press Page Down to see all of the fields. They are shown on the screen above for your reference.

Field descriptions

The fields on the Recipient Details screen are described below.

Field	Description
Name	Type up to 60 characters for the name of the person who should receive a report.
Name Out	Type Y or N to indicate whether you want the descriptive data to be used when printing this report. The descriptive data will generally appear on the JES banner pages, though this is installation dependent.
User ID	Type up to eight (8) characters for the MVS Userid that is associated with this person.
Department	Type up to 60 characters for the department name or ID, such as "Accounting" or "HR."

Field	Description
Room	If the person is associated with a specific room or office number, list it here. Type up to 60 characters for the Room name.
Building	If your company has more than one building, indicate in which office building the person resides. Type up to 60 characters for the Building name.
Address	Use up to four lines of 60 characters each to specify a mailing address for this person.
Dest	Type up to 27 characters for the JES printer destination.
Class	Type one character to indicate the SYSOUT class used to print the report.
Groupid	Type up to eight (8) characters for a group name if you are grouping similar reports together.
Copies	Type a number between 0 and 999 to indicate the number of copies to print. If you enter a zero (0), the report will be distributed online, but not printed.
Duplex	Indicate if you want this report to be printed in "duplex" mode, which means printing on both sides of the paper, whether in portrait or landscape format. Valid entries are:
	No - Do not print this report in duplex mode.
	• Normal - Print this report in duplex mode so that the sheets can be bound on the long edge of the paper.
	• Tumble - Print on both sides of the paper so that the sheets can be bound on the short edge of the paper.
Burst	Type Y or N to indicate whether you want to separate (burst) the report into smaller reports based on a specific criteria, such as branch number.
Label	Type \mathbf{Y} or \mathbf{N} to indicate whether you want to print a security label with this report.
Sys Area	Type Y or N whether you want to print a system area label with this report.
Print Attr	Refer to the "Assigning printer attributes to a recipient ID" on page 80 for instructions on how to associate printer attributes with this recipient ID.
	If you have already assigned printer attributes to this recipient ID, the name of the printer attributes information will be displayed here.
Rept Title	Type up to 60 characters for a report title.

You are not required to make an entry in every field on this screen. After entering information, press Enter to save this recipient ID information.

Selecting an existing ID

If at least one recipient ID has already been defined, the following screen displays when you choose option J, Recipient IDs, on the Administrative Functions menu (option A.J from the Output Manager main menu):

You can page right (PF11) repeatedly to scroll through the existing information about the IDs displayed on this screen.

Line commands

There are several line commands you can use on the Recipient IDs screen. These commands are:

- **S** *Select an ID*. The screen described in "Adding a new ID" on page 36 will display the information associated with this ID for your review.
- I Insert a new ID. The screen described in "Adding a new ID" on page 36 will display so you can enter information for a new recipient ID.
- **D** *Delete an ID*. A pop-up window asks you to confirm that you want to delete the ID. Press Enter to delete or use CANCEL to keep the ID.
- E Edit an ID. The screen described in "Adding a new ID" on page 36 will display so you can change the information associated with this ID.

Creating a distribution list

To create a distribution list, select option D, **Distribution Lists**, on the Administrative Functions menu (option A.D from the Output Manager main menu), and press Enter.

The following screen displays if no distribution list has been defined or if you use the I (Insert) line command next to the name of an existing distribution list:

Type up to 60 characters to specify a name for this distribution list, and press Enter.

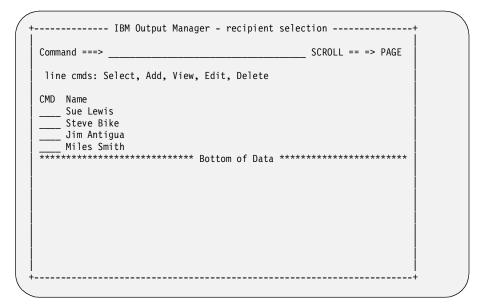
Adding recipient IDs to a distribution list

When you have named at least one distribution list, you are ready to choose the recipient IDs that you want to include in this distribution list. To do this, follow these steps:

1. Choose option D, **Distribution Lists**, on the Administrative Functions menu (option A.D from the Output Manager main menu), and press Enter. The Distribution Lists screen will display the names of any existing lists. A sample is shown below.

```
File Help
        IBM Output Manager - Distribution Lists Row 1 of 4
                                         ____ SCROLL ===> PAGE
Command ===>
Line Commands: Edit, Insert, Delete, Select
CMD Description
  _ Local employees
____ Remote employees
____ Chicago employees
   Bank Branch Ash employees
```

- 2. Type **S** (Select) next to the distribution list to which you want to add recipients. Press Enter.
- If there are already recipient IDs associated with this list, the IDs will be displayed. If there are no recipient IDs in this list, the Recipient Selection window displays so you can choose the ones you want from all of the available recipient IDs.



- Type S (Select) next to the recipient IDs that you want to add to the distribution list, and press Enter. The "S" changes to a slash (/).
- Press End (PF3) to return to the previous screen, which lists only the IDs assigned to this list. A message "Recipients added" displays at the bottom of the screen. Press End (PF3) to return to the previous screen. Press Enter again to save the recipients with this distribution list. A message displays indicating that this list has been saved.

Assigning a distribution list to a report

To distribute a report, you must assign a distribution list to the report. The distribution list contains information about individuals who are to receive the report. For example, you may want the 123 Bank Branch report to go to Bob, while the 456

Bank Branch report goes to Mary. You must indicate whether they are to receive a hardcopy (printed) report.

To assign a distribution list to a report, follow these steps:

- 1. Choose option C, Custom Reports, on the Administrative Functions menu (option A.C from the Output Manager main menu).
- Type E (Edit) next to a custom report. An example of a custom report is shown below.

```
File Links Preferences Help
         IBM Output Manager - Report
                            SCROLL ===> PAGE
Command ===>
Report name . . . Ash
Contiguous . . . Yes
                             (Yes or No)
Description . . . Ash Branch
Layout . . . : IVP
Distribution .:
Line Commands: Edit, Insert, Delete
CMD Connector Field Condition Value
           header EQ
                          Tree House Bank Confidential
     and
                          Branch
           branchhd EQ
           branchid EQ
                          Ash
```

3. Place the cursor on the "L" in the **Links** pull-down menu at the top of the screen, and press Enter. The following menu displays:

```
File Links Preferences Help
       1. Choose a Layout Row 1 of 3
2. Choose a Distribution List SCROLL ===> PAGE

    Choose a Layout

       3. Edit the Layout
      4. Edit the Distribution List
    +----- (Yes or No)
Description . . . Ash Branch Layout . . . : IVP
Distribution .:
Line Commands: Edit, Insert, Delete
```

Type 2 to select Choose a Distribution List, and press Enter. Another screen displays that contains all of the distribution lists so you can select one.

```
+----- IBM Output Manager - Distribution List Selection -----+
                          SCROLL ===> PAGE
 line cmds: Select, Add, Edit, Delete
CMD Description
   _ Local employees
    Remote employees
   Chicago employees
```

Type **S** (Select) next to a distribution list and press Enter. The "S" is replaced with a slash (/). Press PF3 (End) to return to the Report screen. The Distribution field on this screen now displays the name of the distribution list that you selected.

Chapter 4. Setting Preferences

The **Preferences** option on the IBM Output Manager for z/OS (Output Manager) main menu allows you to define your terminal settings, such as use of color, highlighting, and brightness. This is provided for your benefit, but is not required to use Output Manager.

To specify terminal settings, choose option P, **Preferences**, on the Output Manager main menu. The following window appears on the screen:

perlink Intensity High (High Low) ne Command Color Red (Red, Pink, Green, Yellow Blue, Turquoise, White) ne Command Hilite Uscore (None, Blink, Reverse, Uscore	•	
perlink Hilite None (None, Blink, Reverse, Uscore perlink Intensity High (High Low) ne Command Color Red (Red, Pink, Green, Yellow	·	
Blue, Turquoise, White) ne Command Hilite Uscore (None, Blink, Reverse, Uscore	erlink Hilite None (None, Blink, Reverse, Úscore
ne Command Hilite Uscore (None, Blink, Reverse, Úscore	·	
	e Command Hilite Uscore (None, Blink, Reverse, Úscore
Press ENTER to save or CANCEL to bypass	Press ENTER to save or CANCEL	to bypass

You can change the text color, type of highlighting, and level of intensity (brightness) of any hiperlinks and line commands that appear on an interface screen. *Hiperlinks* allow you to jump from one Output Manager object to another, such as from a custom report to a report layout. The fields are described below:

Option	Description
Hiperlink Color	Type the color you want to use to identify hiperlinks. You do not need to type the whole word, just the first initial in either upper or lower case. When you press Enter, the full word will replace the single letter that you typed.
	The color choices are:
	B - blue
	• G - green
	P - pink
	• R - red
	T - turquoise
	• W - white
	Y - yellow

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Option	Description
Hiperlink Hilite	Indicate the type of highlighting you want to use to draw your attention to a hiperlink. The highlight choices are:
	B - Make the text blink or flash on and off.
	N - Do not use any highlighting.
	R - Display the text in reverse color. For example, if the screen background is black, "R" will cause the hiperlink to be displayed with a white background to draw attention to it.
	U - Underline (underscore) the text.
Hiperlink Intensity	Indicate whether you want the text to be displayed with a low (L) level of brightness or a high (H) level of brightness.
Line Command Color	Type the color you want to use when typing line commands. You do not need to type the whole word for the color, just the first initial in either upper or lower case. When you press Enter, the full word will replace the single letter that you typed.
	The color choices are:
	B - blue
	• G - green
	P - pink
	• R - red
	T - turquoise
	W - white
	Y - yellow
Line Command Hilite	Indicate the type of highlighting you want to use to draw attention to a line command. The highlight choices are:
	B - Make the text blink or flash on and off.
	N - Do not use any highlighting.
	R - Display the text in reverse color. For example, if the screen background is black, "R" will cause the hiperlink to be displayed with a white background to draw attention to it.
	U - Underline (underscore) the text.
Line Command Intensity	Indicate whether you want the text to be displayed with a low (L) level of brightness or a high (H) level of brightness.

When you are done, press Enter to see your changes. Press Enter again to leave the Preferences screen and save your changes.

Chapter 5. Viewing reports

IBM Output Manager for z/OS (Output Manager) enables you to view reports online and define report attributes. This chapter describes how to use the interface for various reporting functions, including:

- setting terminal and user parameters
- searching archives
- viewing defined and custom reports

Accessing reports

When you choose option V, **View Reports**, on the Output Manager main menu, the following menu displays:

```
Reports Archives Preferences Help

IBM Output Manager - View Selection

Command ===>

Subsystem: subid

P Preferences Terminal and user parameters

R Reports Customized Reports

A Archives Search archives

X Exit Exit view selection
```

You have four choices on this screen. These are described in the table below.

Option	Description
P - Preferences	Enables you to view and change settings for terminal and user parameters.
R - Reports	Enables you to view and print captured reports.
A - Archives	Enables you to search the report archives for a specific report, and to print it.
X - Exit	Leave this screen and return to the previous one.

Each of these options is described in more detail in the rest of this chapter.

Setting Preferences

Choose P, **Preferences**, on the View Selections menu (option V.P from the Output Manager main menu) to view and change settings for preferences. Refer to "Preferences" on page 10 for details on how to make entries in the fields.

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Viewing a report

Type R, Reports, on the View Selections menu (option V.R from the Output Manager main menu) to view a captured report. The following screen displays when you choose the Reports option:

```
File Search Preferences Help
           IBM Output Manager - Captured Reports Row 1 of 49
                                            _____ SCROLL ===> PAGE
Command ===>
Line Commands: View, Print, Print Override
              Reprint, Reprint Override, Reprint Distribution
CMD Report Name
                                        Capture Time
                                                         Type
    ivp testing-3
                                        2002 10/22 15:18 Custom
    ivp testing-3
                                        2002 10/22 15:22 <No Report>
    ivp testing-3
                                        2002 10/22 15:22 <Undefined>
    ivp testing-3
                                        2002 10/22 15:23 Custom
    ivp testing-3
                                        2002 10/22 15:25 Custom
```

Field descriptions

The read-only fields on the Captured Reports screen are described below.

Option	Description
Report Name	The name assigned to this report.
Capture Time	The date and time that this archive was created.
Туре	The type of report. Valid types are:
	Basic - This archive contains every page of the SYSOUT, the full report.
	Custom This archive contains data that met the specific criteria for this custom report, which is usually a subset of the full (basic) report.
	Undefined - This archive contains all of the SYSOUT pages that did not match any of the criteria in any of the custom reports.
	No report - This is an "empty" report that informs you there were no SYSOUT pages that matched the criteria for this specific custom report. You may want to check the custom report and the application to see if there is a problem with either the layout or the conditions listed for this custom report.
Page Count	The total number of pages in this report.
Line Count	The total number of lines in this report.

Line commands

There are several line commands for accessing and printing the reports listed on the Captured Reports screen. The line commands are listed in the table below:

Line Command	Description
V - View	View the report, including the line numbers. For the TSO/ISPF version of Output Manager, "V" launches ISPF View.
P - Print	Summary: "I'm a user and I want to print a selected report."
	Print this report in the user's address space (TSO session). The print request will attempt to locate a recipient record that identifies the user issuing the request via the TSO User ID listed in the Recipient ID record.
	If found, the recipient information will be used to establish output descriptors, which augment printrelated information, such as Class and Destination. Location information will be added to the report output to assist in distribution.
	• If no recipient information exists for the user, the report is printed using TSO default print specifications for Class and Destination. No distribution information is included with the report.
PO - Print Override	Summary: "I'm a user and I want to print the selected report, but I am temporarily in a different location, so I need to change the address."
	Prints the report in the user's address space (TSO session). However, you can change or specify recipient information before printing the report. The print request will attempt to locate a recipient record that identifies the user via the TSO User ID listed in the Recipient ID record.
	• If found, this record is displayed so you can make "this time only" changes to the recipient print execution, destination, and location information.
	If not found, you will be presented with a blank recipient input screen, where you can make "this time only" specifications for the printed report.
	In either case, the values are used to establish output descriptors to augment print-related information, but are not saved to the recipient record on disk.

Line Command	Description
R - Reprint	Summary: "I'm an administrator and General Ledger just called to say the driver forgot to close the truck door, so our reports are all over the expressway. They want them reprinted."
	Prints the report in the Output Manager product address space. This is an administrator option that is primarily used to re-print reports for distribution upon request. The reprint request uses the distribution list assigned to the report, establishing output descriptor information for each of the recipients in the distribution list.
	If the report does not have an assigned distribution list, you are presented with a list of available distribution lists for you to choose from for use with this Reprint request. The list you select is used for print distribution purposes for this request, but it is not saved in the report record on disk.
RO - Reprint Override	Summary: "I'm an administrator and Payroll just called to say the boss is calling from California, but his payroll summary report went to his office in New York. They want me to reprint just his copy of the report, but change his recipient information so it will print in California and contain enough delivery information for the distribution clerks in California to get it to him."
	Prints the selected report in the Output Manager product address space. This is an administrator option that is primarily used to re-print reports for distribution upon request. However, in this case, you are presented with a list of recipients where you can make "this time only" changes to the distribution list.
	If the report does not have a defined distribution list, a list of available distribution lists are displayed for you to choose from for this request. Once you make your selection, you will be presented with a list of the recipients defined in that list.
	You can remove recipients or change the information of one or more of the recipients. Changes are used for this print request only, and not saved to the distribution list or recipient records on disk.
RD - Reprint Distribution	Summary: "I'm an administrator and Accounts Payable just called to say that they want a copy of the AP-3 report sent to everyone in the Payroll distribution list, instead of the list normally assigned to this report."
	Prints the selected report in the Output Manager product address space. This is an administrator option that is primarily used to re-print reports for distribution upon request. However, in this case, you are presented with a listing of all of the distribution lists, regardless of whether the report has a defined distribution list. Once you make your selection, the report is printed using the selected distribution list to establish output descriptors.

Using the Preferences menu

You can set your default search preferences by using the **Preferences** pull-down menu at the top of the Captured Reports screen. Follow these steps to set preferences.

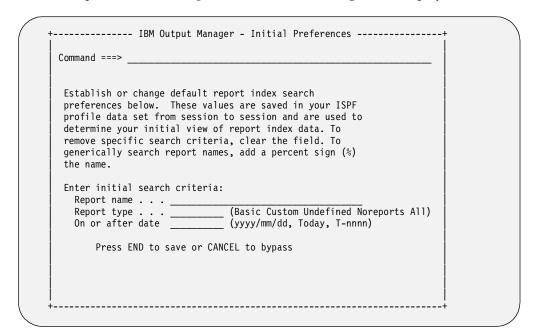
- 1. Go to the **Reports** option, which is V.R from the Output Manager main menu. The Captured Reports screen displays.
- 2. Place the cursor on the "P" in the Preferences pull-down menu at the top of the screen, and press Enter. The following menu displays.

```
Preferences Help

+-----+

| 1. Set initial preferences |
| 2. Save search criteria |
+-----+
```

3. Select option 1, **Set initial preferences**. The following screen displays:



The table below describes the fields on this screen.

Field	Description
Report name	Type up to 36 characters for the name of the report you want to search for. Leave it blank for any report name.

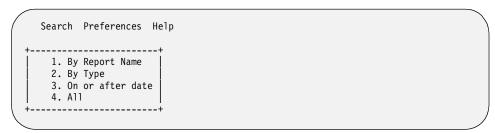
Field	Description
Report type	Indicate the type of report you want to search for:
	Basic - The whole SYSOUT report that was saved to the archive.
	Custom - The subset of the SYSOUT that matched the selection criteria for a custom report
	Undefined - The report that contains the SYSOUT pages that did not match any of the criteria specified in any of the custom reports.
	No report - An empty report that indicates there were no SYSOUT pages that matched the criteria in a specific custom report.
	All - Search for all types of reports.
On or After Date	Specify a date or range of dates that you want to search through to locate a report. You can use any of these entries:
	• yyyy/mm/dd - Type up to 10 characters for a date, where <i>yyyy</i> is the year, <i>mm</i> is the month (01 -12) and <i>dd</i> is the date (01-31).
	Today - Type the word "Today" to limit the search to reports that were archived on this date.
	T-nnnn - Type the letter "T" followed by a minus sign (-), and a number up to four (4) digits long to indicate how many days before today you want to search. For example, T-14 means "today and the previous 14 days."

When you are done with entering your initial preferences, press Enter to continue, or type CANCEL if you want to leave this screen without setting preferences.

Using the Search menu

You can change which reports are displayed on the Captured Reports screen by using the Search pull-down menu at the top of the screen. To change which reports are displayed, follow these steps:

- Go to the **Reports** option, which is V.R from the Output Manager main menu. The Captured Reports screen displays.
- 2. Place the cursor on the "S" in the Search pull-down menu at the top of the screen, and press Enter. The following menu displays.



3. Select an option to change which reports are displayed on the Captured Reports screen. The default is option 4, All reports. An example using option 2, Report **Type**, is shown below.

```
-----+
Command ===>
Enter search criteria below. Specify the type of reports
you wish to view. The resulting list will contain only
reports that match any previously specified search
criteria, and are of the specified type.
  Report type . . . _____ (Basic Custom Undefined Noreports All)
     Press END to save or CANCEL to bypass
```

Once you enter the criteria requested in the window, and press Enter, the list of reports changes on the Captured Reports screen.

Using the report archives

If you want to access a report that is in an archive, choose option A, Archives, on the View Selections menu (option V.A from the Output Manager main menu). The Archived Reports screen displays a list of archives:

```
File View Search Preferences Help
          IBM Output Manager - Archived Reports
                                                      Row 1 of 1017
                                                         SCROLL ===> PAGE
Command ===>
Line Commands: Select, View, Browse, Print, Print Override, Captured +
              Reprint, Reprint Override, Reprint Distribution
CMD Job Name Job Id
                       Capture Time
                                        DD Name
    TST#ASM J0B09168 2002 11/08 11:20 SYSOUT
    TST#ASM
             J0B09168 2002 11/08 11:20 SYSOUT
    TST#ASM
             J0B09168 2002 11/08 11:20 SYSOUT
             J0B09168 2002 11/08 11:20 SYSPRINT
    TST#ASM
    TST#ASM
              J0B09168 2002 11/08 11:20 ASMOUT
              J0B09168 2002 11/08 11:20 SYSPRINT
    TST#ASM
```

The fields and line commands available on this screen are described in the sections that follow.

Field Descriptions

The following table describes the fields that are displayed on the Archived Reports screen:

Field	Description
	This field is where you type a line command that you want to run on this screen. Line commands are described in the next section.

Field	Description
Job Name	The name of the job associated with this archived report is listed in this field.
Job ID	The number of the job associated with this archived report is listed in this column.
Capture Time	The date and time that this archive was created is displayed.
DD Name	This is the DD name (dataset name) specified in the JCL.

Line Commands

There are several line commands for accessing and printing the reports listed on the Archived Reports screen. You type these commands in the CMD column next to the archive you want to process. The line commands are listed in the table below:

Line Command	Description
S - Select	Select the archive dataset. No line numbers are displayed when you browse a job log. For the TSO/ISPF version of Output Manager, "S" launches ISPF Browse.
V - View	View the archive dataset, including the line numbers. For the TSO/ISPF version of Output Manager, "V" launches ISPF View.
B - Browse	Browse the archive dataset. No line numbers are displayed when you browse a job log. For the TSO/ISPF version of Output Manager, "S" launches ISPF Browse.
P - Print	Summary: "I'm a user and I want to print a selected report."
	Print this report in the user's address space (TSO session). The print request will attempt to locate a recipient record that identifies the user issuing the request via the TSO User ID listed in the Recipient ID record.
	If found, the recipient information will be used to establish output descriptors, which augment printrelated information, such as Class and Destination. Location information will be added to the report output to assist in distribution.
	If no recipient information exists for the user, the report is printed using TSO default print specifications for Class and Destination. No distribution information is included with the report.

Line Command	Description
PO - Print Override	Summary: "I'm a user and I want to print the selected report, but I am temporarily in a different location, so I need to change the address."
	Prints the report in the user's address space (TSO session). However, you can change or specify recipient information before printing the report. The print request will attempt to locate a recipient record that identifies the user via the TSO User ID listed in the Recipient ID record.
	If found, this record is displayed so you can make "this time only" changes to the recipient print execution, destination, and location information.
	If not found, you will be presented with a blank recipient input screen, where you can make "this time only" specifications for the printed report.
	In either case, the values are used to establish output descriptors to augment print-related information, but are not saved to the recipient record on disk.
C - Captured	Displays the captured reports that are associated with this archive.
R - Reprint	Summary: "I'm an administrator and General Ledger just called to say the driver forgot to close the truck door, so our reports are all over the expressway. They want them reprinted."
	Prints the report in the Output Manager product address space. This is an administrator option that is primarily used to re-print reports for distribution upon request. The reprint request uses the distribution list assigned to the report, establishing output desciptor information for each of the recipients in the distribution list.
	If the report does not have an assigned distribution list, you are presented with a list of available distribution lists for you to choose from for use with this Reprint request. The list you select is used for print distribution purposes for this request, but it is not saved in the report record on disk.

Line Command	Description
RO - Reprint Override	Summary: "I'm an administrator and Payroll just called to say the boss is calling from California, but his payroll summary report went to his office in New York. They want me to reprint just his copy of the report, but change his recipient information so it will print in California and contain enough delivery information for the distribution clerks in California to get it to him."
	Prints the selected report in the Output Manager product address space. This is an administrator option that is primarily used to re-print reports for distribution upon request. However, in this case, you are presented with a list of recipients where you can make "this time only" changes to the distribution list.
	If the report does not have a defined distribution list, a list of available distribution lists are displayed for you to choose from for this request. Once you make your selection, you will be presented with a list of the recipients defined in that list.
	You can remove recipients or change the information of one or more of the recipients. Changes are used for this print request only, and not saved to the distribution list or recipient records on disk.
RD - Reprint Distribution	Summary: "I'm an administrator and Accounts Payable just called to say that they want a copy of the AP-3 report sent to everyone in the payroll distribution list, instead of the list normally assigned to this report."
	Prints the selected report in the Output Manager product address space. This is an administrator option that is primarily used to re-print reports for distribution upon request. However, in this case, you are always presented with a list of distribution lists, regardless of whether the report has a defined distribution list. Once you make your selection, the report is printed using the selected distribution list to establish output descriptors.

When you use the S (Select), V (View), and B (Browse) line commands, the archive job log displays. An example is shown below:

```
Menu Utilities Compilers Help
BROWSE PDSMITH.ETI#ASM.JOB09168 Line 00000000 Col 001 080
DATA SET UTILITY - GENERATE
PROCESSING ENDED AT EOD
```

Selecting a view

The View pull-down menu allows you to control which information you want to see displayed on the Archived Reports screen. To change the view, place the cursor on the "V" in "View" at the top of the Archived Reports screen, and press Enter. The following screen with a window will display:

```
File View Search Preferences Help

    Job Info

                        ger - Archived Reports
                                                        Row 1 of 1017
         2. Step Info
                                                         SCROLL ===> PAGE
Comm
                        w, Browse, Print, Print Override, Captured +
Line
         3. Statistics
         4. All
                      print Override, Reprint Distribution
CMD
                                        DD Name
    +----+ apture Time
    TST#ASM J0B09168 2002 11/08 11:20 SYSOUT
    TST#ASM
             J0B09168 2002 11/08 11:20 SYSPRINT
    TST#ASM
             J0B09168 2002 11/08 11:20 ASMOUT
    TST#ASM
             J0B09168 2002 11/08 11:20
                                        SYSPRINT
    TST#ASM
             JOB09168 2002 11/08 11:20 SYSPRINT
    TST#ASM
             J0B09168 2002 11/08 11:20 ASMOUT
                                        SYSPRINT
    TST#ASM
              J0B09168 2002 11/08 11:20
    TST#ASM
             J0B09168 2002 11/08 11:20 SYSPRINT
    TST#ASM
             J0B09168 2002 11/08 11:20 ASMOUT
             J0B09168 2002 11/08 11:20 SYSPRINT
    TST#ASM
```

You have four menu options at this point:

- 1. Job Info (default)
- 2. Step Info
- 3. Statistics
- 4. All

The following table lists the fields that display when you choose each of these view options.

Type of View	Fields that Display
1 - Job Info (default)	Job name, JobID, Capture Time, DDName
2 - Step Info	Job name, Step name, Proc Step, Proc Name, Program, DDName
3 - Statistics	Job name, Job ID, Capture Time, Migrated, Cond, Line Count, Page Count, Byte Count
4 - All	Job name, Job ID, Capture Time, Migrated, Cond, Line Count, Page Count, Byte Count, User ID, Group ID, Account 1 - 8, Job Class, Msg Class, Scheduling Env, Step Name, Proc Step, Proc Name, Program, DDName, DD Seq. #, Sysout Class, Dataset Name

Type a number between 1 and 4 to choose the view option you want, then press Enter. The information on the Archived Reports screen changes, based on the view option you choose.

Note: The normal (default) view is Job Info. If you choose the Job Info view first, the display on the Archived Reports screen will remain the same.

Using the Search menu

The **Search** pull-down menu allows you to control which archives are displayed on the Archived Reports screen. To perform a search, place the cursor on the "S" in "Search" at the top of the Archived Reports screen, and press Enter. The following window will display:

```
File View Search Preferences Help
              1. By Job Name
                                ved Reports Row 1 of 1017
Command ==
              Migrated
                                                        SCROLL ===> PAGE
             3. By Sysout Class Print, Print Override, RePorts +
4. Generic Search ide, Reprint Distribution
Line Comma
CMD Job N
            5. List All
                                       DD Name
    TST#AS+----+11:20 SYSOUT
    TST#ASM JOB09168 2002 11/08 11:20 SYSPRINT
    TST#ASM
             J0B09168 2002 11/08 11:20 ASMOUT
    TST#ASM
             J0B09168 2002 11/08 11:20
                                       SYSPRINT
    TST#ASM
             JOB09168 2002 11/08 11:20 SYSPRINT
             JOB09168 2002 11/08 11:20 ASMOUT
    TST#ASM
    TST#ASM
             J0B09168 2002 11/08 11:20
                                       SYSPRINT
    TST#ASM
            J0B09168 2002 11/08 11:20 SYSPRINT
             J0B09168 2002 11/08 11:20 ASMOUT
    TST#ASM
    TST#ASM
             J0B09168 2002 11/08 11:20 SYSPRINT
```

You have five menu options at this point:

- 1. By Job Name
- 2. Migrated
- 3. By Sysout Class
- 4. Generic Search
- 5. List All

Type a number between 1 and 5 to choose the search option you want, then press Enter. A window displays, based on the selection you chose. In the example below, the search is by job name.

On the example above, you can type a specific job name to search for or use a wildcard (* or %) if you know part of the job name. When you press Enter, Output Manager will display a list of archives that match your job name or wildcard entry.

If you choose option 4, Generic Search, the following screen displays:

ommand ===>		of 1017 LL ===> PAGE
Enter your search crite Wildcards are permitted		+
Job Name:	(Name of archive job)	
Job Id :		
User Id:	(Racf userid of job)	
Group Id:	(Racf groupid of job)	
Jobclass:		
	(Jes execution class)	
Schedule Env .:		
	(WLM Scheduling Env)	
After Date:	(On or After this date	
Before Date .:	(On or Before this date	
After Time:	_ (On or After this time	
Before Time .:	_ (On or Before this time	

With a generic search, you can fill in as few or as many fields as you want to perform a search on the archives.

Field	Description
Job Name	Type up to eight (8) characters for the name of the job associated with the archived report.
Job ID	Type up to eight (8) characters for the number of the job associated with the archived report.
User ID	Type up to eight (8) characters for the RACF user ID associated with the job you are trying to locate.
Group ID	Type up to eight (8) characters for the RACF group ID associated with the job you are trying to locate.
Job class	Type a specific JES execution class to display jobs that are associated with that class.
Schedule Env	Type up to 17 characters for the WLM scheduling environment.
After Date	Enter a date in the format yyyy/mm/dd, where <i>yyyy</i> is the year, <i>mm</i> is the month, and <i>dd</i> is the day. Output Manager will search for archives that were created on or after this date.
Before Date	Enter a date in the format yyyy/mm/dd, where <i>yyyy</i> is the year, <i>mm</i> is the month, and <i>dd</i> is the day. Output Manager will search for archives that were created on or before this date.
After Time	Enter a time in the format hh:mm:ss, where hh is the hour, mm refers to minutes, and ss refers to seconds. Output Manager will search for archives that were created on or after this time.
Before Time	Enter a time in the format hh:mm:ss, where hh is the hour, mm refers to minutes, and ss refers to seconds. Output Manager will search for archives that were created on or before this time.

After you have entered data in one or more of these fields, press Enter to start the search.

Using the Preferences menu

You can set your default search preferences by using the Preferences pull-down menu at the top of the Archived Reports screen. Follow these steps to set preferences.

- Go to the **Archives** option, which is V.A from the Output Manager main menu. The Archived Reports screen displays.
- Place the cursor on the "P" in the "Preferences" pull-down menu at the top of the screen, and press Enter. The following menu displays.

```
Preferences Help
  1. Set initial preferences
  2. Save search criteria
```

3. Select option 1, **Set initial preferences**. The following screen displays:

```
------ IBM Output Manager - Initial Preferences -----+
Command ===>
                                                  More:
Your initial view archive search preferences have not
yet been set. Enter your preferences below and they
will remain this way until you change them.
Initial View . . .: Job
                                (Job, Step, Stats, or All)
                               (Job Name, Migrated,
Sysout class, Generic, ALL)
Initial Search . .: All
Enter initial search criteria for non-generic searches:
                                (JES job name)
  Job name . . . :
  Migrated status.:
                                (Yes or No)
  Sysout Class . .:
Enter initial search criteria for generic searches:
  Job Name . . . :
                                    (Name of archive job)
                                    (JES job number)
  Job Id . . . . :
  User Id . . .:
Group Id . . .:
                                    (Racf userid of job)
                                    (Racf groupid of job)
```

4. Make entries in the fields to indicate your archive search preferences. PageDown (PF8) to view additional fields. All of the fields are described in the table below.

Field	Description
Initial View	Type one of the following to indicate how you want to view the archives:
	• Job
	• Step
	• Stats
	• All

Field	Description
Initial Search	Type one of the following to indicate how you want to search through the archives:
	Job name
	Migrated
	Sysout class
	Generic
	• All
Job name (for non-generic searches only)	Type up to eight (8) characters for the JES job name you want to search for in the archives.
Migrated status (for non-generic searches only)	Type Yes or No to indicate whether the archive you are searching for is migrated.
Sysout class (for non-generic searches only)	Type up to 34 characters for the sysout class you want to search for in the archives.
Job Name	Type up to eight (8) characters for the name of the job associated with the archived report.
Job ID	Type up to eight (8) characters for the number of the job associated with the archived report.
User ID	Type up to eight (8) characters for the RACF user ID associated with the job you are trying to locate.
Group ID	Type up to eight (8) characters for the RACF group ID associated with the job you are trying to locate.
Job class	Type a specific JES execution class to display jobs that are associated with that class.
Schedule Env	Type up to 17 characters for the WLM scheduling environment.
After Date	Enter a date in the format yyyy/mm/dd, where <i>yyyy</i> is the year, <i>mm</i> is the month, and <i>dd</i> is the day. Output Manager will search for archives that were created on or after this date.
Before Date	Enter a date in the format yyyy/mm/dd, where <i>yyyy</i> is the year, <i>mm</i> is the month, and <i>dd</i> is the day. Output Manager will search for archives that were created on or before this date.
After Time	Enter a time in the format hh:mm:ss, where hh is the hour, mm refers to minutes, and ss refers to seconds. Output Manager will search for archives that were created on or after this time.
Before Time	Enter a time in the format hh:mm:ss, where hh is the hour, mm refers to minutes, and ss refers to seconds. Output Manager will search for archives that were created on or before this time.

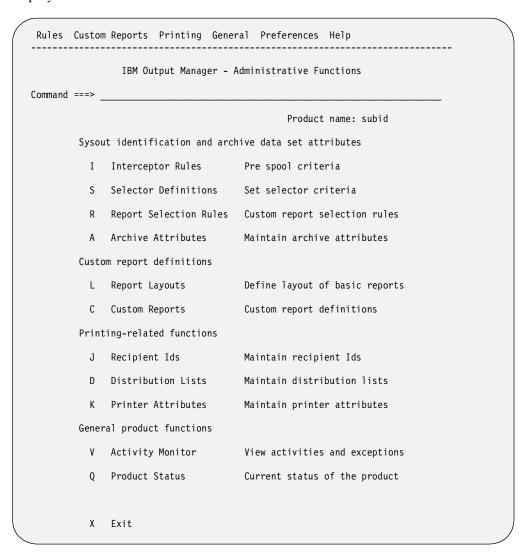
5. When you are done setting your initial preferences, press Enter to continue. You will return to the Archived Reports screen.

Chapter 6. Using the administrative functions

IBM Output Manager for z/OS (Output Manager) provides a number of administrative functions that you can use to define, retrieve, and maintain report information. This chapter describes the options available to you.

Accessing the administration functions

To view a list of administrative options in Output Manager, select option A, **Administrative Functions**, on the Output Manager main menu. The following screen displays.



All of the options on the Administrative Functions screen are described in the following table.

Option	Description
Sysout Identification and Archive data set attributes	

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Option	Description
I - Interceptor	Generates a list of pre-spool criteria, based on jobcard, step, and SYSOUT information, for jobs that should be saved in archive data sets.
S - Selector Definitions	Sets post-spool selection criteria for jobs that should be saved in archive data sets. You may want to have a different selector for each output class. For example, you may want one selector for class W, another for class X, etc. This enables you to improve performance. The selector subtask is "long lived", meaning it is active all the time, waiting for JES to give it a job.
R - Report Selection Rules	Enables you to view and edit rules for selecting reports.
A - Archive Attributes	Enables you to view and edit archive attributes.
Custom report definitions	
L - Report Layouts	Enables you to edit, delete, select, insert, paste, copy, or cut report layouts.
C - Custom Reports	Enables you to view a list of reports that have already been defined.
Printing-related functions	
J - Recipient IDs	Enables you to view and edit IDs of people or departments who should receive specific reports.
D - Distribution Lists	Creates and maintains distribution lists that are assigned to reports. A distribution list is a collection of recipient IDs.
K - Printer attributes	Provides a facility for specifying and maintaining the printer attributes, such as FORM, UCS, CHARS, as well as AFP attributes, such as PAGEDEF and FORMDEF.
General product functions:	
V - Activity monitor	Enables you to view activities and exceptions.
Q - Product status	Enables you to check the current status of Output Manager.

Each of these administrative functions is described in more detail in the rest of this chapter.

Establishing rules

The first step in setting up Output Manager to manage system output (SYSOUT) and custom reports is to create rules that determine what SYSOUT data is eligible to be archived. There are different types of rules you can create:

- Interceptor rules. When a job opens the SYSOUT, an interceptor sees that event and acts on the SYSOUT at that point. This is considered a pre-spool event.
- Selector rules. A selector is a long-lived task that functions in a manner similar to a printer. It waits for JES to assign it jobs and looks for the SYSOUT to take off the spool. This is considered a post-spool process. A selector rule may be most useful for "generic" jobs, such as all jobs assigned to a specific class.
- Report selection rules. This type of rule is different from the previous two rule types. A report selection rule is associated with a custom report that you have created, rather than focusing on pre-spool or post-spool SYSOUT.

You can make as many rules as you want. When an event occurs, the rules are scanned from top to bottom looking for a match, so the order of rules is important. If there's no match, nothing happens with that SYSOUT or custom report. If there is a match, Output Manager acts upon the SYSOUT or custom report based on the directions in the rule.

Reviewing Rules

There are three options for rules on the Administrative Functions menu (option A from the Output Manager main menu), which are:

- Option I Interceptor Rules
- Option S Selector Definitions
- Option **R** Report Selection Rules

The first two rule types relate to the SYSOUT, either pre-spool or post-spool, and how to archive it. The third type, Report Selection Rules, is for selecting custom reports.

Using the SYSOUT rules requires two steps:

- 1. Set up one or more interceptor or selector rules to indicate what to do with the SYSOUT.
- 2. Use the (P)rompt line command to tie a rule to an specific archive. You specify SYSOUT selection criteria on the Archive Attributes screen.

Using Report Selection rules requires four steps:

- 1. Set up one or more report selection rules to identify which step, in which job, produces the sysout that will serve as a basis for custom reports, or for a basic report if the entire SYSOUT is selected.
- 2. Create a report layout that provides a detailed description of what the custom report looks like, such as where the title goes (column and row). When you are done, use the (L)ink line command on the Report Selection Rules screen (option A.R from the main menu) to tie the report selection rule to the report layout. For details on tying a report layout to a rule, refer to "Assigning a layout to the report rule" on page 134.
- 3. Create a custom report. Use this option to specify the field information that must be true to create a custom report. For example, a report may be 100,000 pages long, but your bank may only be interested in 200 pages of it. You could specify that only the pages relating to your bank ID be part of the custom report. When you are done, tie the custom report to the report layout. Refer to "Tie a report to a layout" on page 126 for steps.
- 4. Use the pull-down menu to link a custom report to a distribution list. This tells Output Manager who should receive the custom report. For details, refer to "Tie a report to a distribution list" on page 128.

When you choose any of the rules options on the Administrative Functions menu, a "List of *name* Rules" screen displays, where *name* represents the type of rule, such as interceptor, selector, or report selection rule. An example of this screen is shown next.

```
File View Preferences Help
    IBM Output Manager - List of Interceptor Rules
                                                       Row 1 of 2
Command ===>
                                                    SCROLL ===> PAGE
Line commands: Edit, Insert, Delete, Prompt, Link
CMD Status
             Disposition Exists Line Limit Capture
     Enabled Keep
                         Replace
                                       0
     Enabled Delete
                        Replace
                                       0
****** Bottom of Data *************
```

This screen displays all of the rules that you have created for this rule type, which is "interceptor rules" in this example. To view all the details of an existing rule, simply Page Right to view more information.

Line commands

There are several actions you can take on this screen. Type one of the following line commands in the Cmd field that is next to the rule you want to change, then press Enter:

- E Edit. An edit screen displays where you can change the values for any of the fields for this rule.
- I Insert. An edit screen displays with blank fields so you can enter values for this new rule.
- **D** *Delete*. A pop-up window asks you to confirm the deletion.
- **P** *Prompt*. A list of archives displays so you can select an archive to tie to the rule.
- L Link. A list of archives displays. When you (S)elect an archive on the list and press Enter, you are taken to an edit session for that archive.

Adding or Editing Rules

When you type E (edit) or I (insert) next to rule on the "List of name Rules" screen, the following screen displays:

```
File Help
IBM Output Manager - Interceptor Rules
Command ===>
                                                          More:
 Control fields
   Disposition . . DELETE_
                           (Delete, Keep)
   Exists.... REPLACE
                          (Leave, Replace, Extend)
   Status . . . ENABLED
Line Limit . . 0____
                          (Enabled or Disabled)
   (Max lines to allow in archive)
                          (Combine Sysout into single archive)
                          (Insert marker when combining)
                          (Yes or No)
   Archive Attr. :
 Job Selection criteria
   Job Type. . . . ALL____
                          (All, Batch, Appc, Tso, Stc)
   Job Class . . . ____
   Job Name. . . . ___
   Job ID. . . . . __
   Proc Name . . .
   Step Name . . . _
Proc Step . . . _
```

Press Page Down to see additional fields. The fields are described below.

Field Descriptions

The fields in the table below are on the "List of *name* Rules" screen and includes fields for interceptor, selector, and report selection rules. The "Control fields" on the screen indicate what action should be taken on the SYSOUT when a match occurs.

Field	Description
Control fields	
Disposition	This field indicates what to do with the SYSOUT when the data is archived. Valid values are:
	Keep - For interceptor rules, send the data to the spool, but make a copy of it for the archive at the same time.
	For all other rule types, keep the data on the spool and make a copy of it for the archive.
	Delete - For interceptor rules, prevent the data from going to the spool, but make a copy of the data for the archive.
	For all other rule types, remove the data from the spool after making a copy of the data for the archive.
Exists	Indicate what to do if the archive already exists. Valid values are:
	Replace - Replace the data in the archive with the new data.
	Leave - Leave the old data in the archive and do not update it. Keep the data on the spool.
	Extend - Write the new data at the end of the old archive data set.

Field	Description
Status	The status of the rules is displayed:
	Enabled - This rule is active.
	Disabled - The rule still exists, but is not usable at this time.
Line Limit	Specify the maximum number of lines that can be written to the archive.
Combine Sysout	Type Y or N to indicate whether you want to combine multiple SYSOUTs from a single job into a single archive. For example, let's assume you have a selector rule for class "L", your jobs all use MSGCLASS=L for the JCL, and all of the utility sysout specified SYSOUT=*. This would be a good candidate for combining the sysout, as all of the DDs in all of the steps that specified SYSOUT=* would be combined with the JCL messages into a single archive.
Insert Marker	Type Y or N to indicate whether you want a marker inserted at the location where the SYSOUTs were combined into a single archive.
	Note: This field is only valid if you specified "Y" in the Combine Sysout field.
Capture Attrs	This field is planned for a future release.
	Indicate whether the information associated with the SYSOUT, such as printer attributes, will be saved in the archive with the data.
Archive Attr	(Display only) This field displays the name of a defined archive attribute that is assigned to this rule. You do not type anything in this field.
	Note: For instructions on how to assign an archive attribute to a rule, refer to "Using the Prompt Command" on page 68.
Job selection criteria	
Job Type	Specify the type of job this rule applies to:
	All - all jobs
	Batch - only jobs processed in batch mode
	Appc - only jobs associated with a specific application
	Tso - only jobs processed on TSO systems.
	Stc - only jobs related to the started task
Job Class	Type up to 36 characters for the JES execution class.
Job Name	Type up to eight (8) characters for a job name.
Job ID	Type up to eight (8) characters for the JES job number associated with this report.
Proc Name	Type up to eight (8) characters for the name of the procedure associated with this report.
Step Name	Type up to eight (8) characters for the name of the step that is associated with the report.
Proc Step	Type up to eight (8) characters for the name of the step associated with this procedure.

Field	Description
Step Number	Type up to eight (8) characters for the number of the step associated with this procedure.
Program	Type up to eight characters for the program name that was used in the EXEC PGM= statement in the JCL.
DD Name	Type up to eight characters for the DD name.
Programmer name	Type up to 20 characters for the name of the programmer associated with this report.
User ID	Type up to eight (8) characters for the RACF user ID of the job that creates this report.
Group	Type up to eight (8) characters for the group ID of the job that creates this report.
Schenv	Type up to 17 characters for the WLM scheduling environment.
Account 1 - 8	Type up to eight (8) characters for the account name or number associated with this report.
Sysout selection criteria	
Sysout Class	Type up to 36 characters for the SYSOUT class associated with the archive report.
Destination	Type up to 27 characters for the JES printer destination.
Form 1 - 8	Type up to eight (8) characters for the name of the form associated with this report.
Prmode 1 - 4	The <i>printer process mode</i> is a JCL parameter that Output Manager uses for selection criteria. If you have specified a Prmode of 1 - 8 characters in your JCL, then we will select this sysout.
	For example:
	//ds18 output prmode=testmode //sysprint dd sysout=a,output=(*.ds18)
	In this case, we would select the sysout if you entered <i>ds18</i> as one of the modes.
	You can specify up to four (4) Prmodes.
FCB	Type up to four (4) characters for the forms control buffer (FCB) name that JES is to use to print a SYSOUT data set.
UCS	Type up to four (4) characters for the Universal Character Set (UCS) that JES is to use when printing the SYSOUT data set.
Flash	Indicate whether a forms overlay should be used in printing the SYSOUT data set. Valid values are:
	Name - Type up to four (4) characters for the name of the forms overlay to be used in printing the SYSOUT data set.
	STD - Use the standard forms overlay, based on the overlay that was specified during JES3 initialization.
	Note: STD only applies to JES3 systems.
	None - No flashing for this SYSOUT data set.

Field	Description
Writer	Type up to eight (8) characters for the name of an external writer to process the SYSOUT data set, rather than JES.
JES Queue	Specify which JES queues to select from for archiving. Choose one of the following values:
	All - Select all jobs in the JES queue.
	External - Only select jobs assigned to a special, external writer. This may or may not be a printer.
	Write - Select jobs that are ready to be written to a printer.
	Hold - Select jobs that are held in the JES queue, and are not ready to be written.

Using the Prompt Command

The prompt (P) line command allows you to tie an archive to a specific rule. When you type the "P" line command next to a rule, a list of archives displays, as shown in the example below:

```
File View Preferences Help
 ----- IBM Output Manager - Archive Attribute Selection ------
                                                  SCROLL ===> PAGE
   line cmds: Select, Add, View, Edit, Delete
  CMD Name
      generic archive
     _ test
      TSOTEMP
     _ gdg archive
```

Note: If there are no archives, a window displays asking if you want to create archive attributes.

When you type **S** (Select) next to an archive on the list and press Enter, the "S" changes to a slash (/), then you press F3 (End) to tie the archive to the rule. The "List of name Rules" screen displays, where name is either Interceptor or Selector to indicate the type of rule.

To verify that the archive is now tied to this rule, use the E (Edit) line command next to the rule and press Enter, then look at the name in the "Archive Attr" field.

Using the Link command

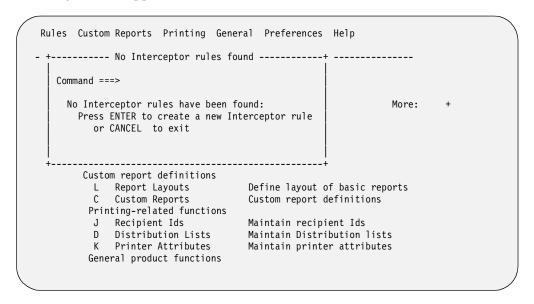
If an archive is already tied to a rule, you can jump to an edit session for that archive by using the (L)ink command. When you type "L" next to a rule and press Enter, the "Archive Attributes Details" screen displays for the archive that is tied to the rule. For example, if the TEST archive is tied to a rule, and you type "L" next to the rule, the details for TEST are displayed.

Deleting Rules

If you type the "D" line command next to a rule and press Enter, the rule will be deleted immediately. If you have your preferences set to "prompt" before deleting, a window pops up to confirm that you want to delete this rule. For information on how to set your preferences, refer to "Setting Preferences".

Creating first rule

The first time you type I to choose **Interceptor rules** or **S** for **Selector Definitions**, the following window appears on the Administrative Functions menu:



Press Enter to create a new rule. The edit screen displays so you can type all the information for this rule. Refer to "Adding or Editing Rules" on page 64 for descriptions of these fields.

Setting Preferences

You can choose which columns you want to appear on the "List of *name* Rules" screen by using the Preferences option in the toolbar at the top of the screen. When you select the Preferences option, a small pop-up window displays:

```
File View Preferences Help
-----+
| _ 1. Set Preferences |
+-----+
```

Press Enter to continue. The "Selection Rules Preferences" screen displays.

```
+----- IBM Output Manager - Selection Rules Preferences -----+
  Command ===> ___
   Enter your preferences below:
  Initial Views:
   Interceptors . . . Job__ (Job, Sysout, All)
Selectors . . . . Sysout (Job, Sysout, All)
  Confirmations:
   Dialog Exit . . . Prompt (Save, Prompt, Nosave)
Level Exit . . . Save_ (Save, Prompt, Nosave)
Delete Entry. . . . Prompt_ (Prompt, Noprompt)
            Press ENTER to save or CANCEL to leave as is.
```

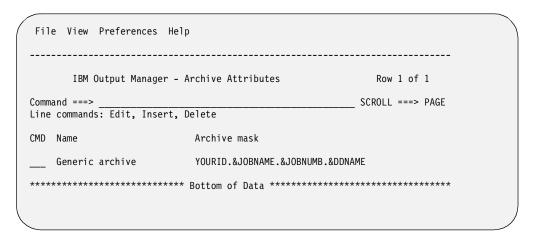
The fields on this window are described in the following table.

Option	Description
Interceptors, Selectors	Type one of the following values in each of these fields:
	Job - Only display columns relating to job selection criteria.
	Sysout - Only display columns relating to SYSOUT selection criteria.
	All - Display all columns (default).
Dialog Exit	This is the top level of the exit process, taking you out of the dialog completely. Type one of the following values to indicate whether you want to save data to the DB2 table when you exit the dialog:
	Save - Always save the changes to the DB2 table (default).
	Prompt - Display a window asking if you want to save the changes to the DB2 table when you leave this session.
	No Save - Do not save any changes to the DB2 table.
Level Exit	Type one of the following values to indicate whether you want to save changes to this session:
	Save - Always save changes made during an edit session (default).
	Prompt - Display a window asking if you want to save the changes made during this edit session.
	No Save - Do not save changes made during an edit session.
	The Level Exit field does not save changes to the DB2 table. That decision is not made until the dialog exit is invoked, and it is based on the preference you specify for the "Dialog Exit" field. Any changes made during this edit session are not applied until you exit the dialog completely.

Option	Description
Delete Entry	Type one of the following values to indicate what to do when a rule is chosen for deletion:
	Prompt - Display a window asking if you want to delete the rule.
	No Prompt - Delete the rule without asking for a confirmation.
	Deletions are not processed until you leave the dialog completely.

Archive Attributes

Use option A, **Archive Attributes**, to view a list of archives and their attributes. When you type **A** on the Administrative Functions screen (option A.A from the Output Manager main menu), the following screen displays:



You can Page Right (F11) to see more fields for the archive attributes.

Field Descriptions

The read-only fields in the table below are on the "Archive Attributes" screen.

Field	Description
	The name of the archive. In the example screen, the name is "Generic archive."

Field	Description
Archive mask	The mask used to generate the name of the dataset that will contain the archive. In the example screen, the mask includes the following:
	User ID
	Job name
	Job number
	DD name
	The mask may include wildcard characters. For more details on creating a data set mask, refer to "Field descriptions" on page 74.
Retention	The number of days to save this archive.
Primary space	The amount of space reserved for this archive.
Secondary space	The amount of secondary space reserved for this archive if the primary space is used.
Space unit	The type of space units associated with this archive, which could be one of the following:
	• Blocks
	• Tracks
	Cylinders
	Kilobytes
	Megabytes
	Bytes
	Records

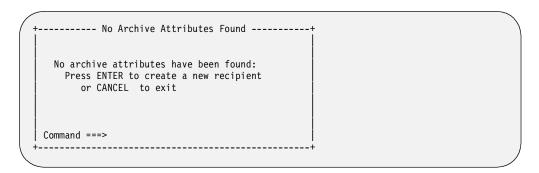
Line commands

There are three actions you can take on this screen. Type one of the following line commands in the **Cmd** field that is next to the line you want to change:

- E Edit
- I Insert
- **D** Delete

Defining Initial Archive

If no archive attributes have been defined, the following pop-up window displays:



Press Enter to create a new set of archive attributes. Otherwise, press CANCEL to exit. If you press Enter, the Archive Attributes Details screen will display, which is described in the next section.

Archive Attributes Details

If you use the E (edit) or I (insert) line commands, or if you are using the Archive Attributes option for the first time, the following screen displays:

IBM Output Manager -	Archive Attributes Details
ommand ===>	SCROLL ===>
	More: +
Descriptive data	
Name	
Archive Mask	
Retention Period	(Number of days to retain)
Allocation attributes	
Management Class .	
Storage Class	
Vol Sers	(Up to 5)
Divide Type	(Generic Unit or device address)
Data Class	
Space Units	(Blocks, Tracks, Cylinders,
	Kilobytes, Megabytes, Bytes or Records)
Average record unit	(M, K, or B)
Primary quantity	_ (in above units)
Secondary quantity 0	_ (In above units)
Block Length 0	(In above units)
Archive disposition	
Normal Disposition	(Catalog, Keep)
Abnormal Disposition	_ (Catalog, Keep, Delete)
Release Unused Space YES	(Yes release, No do not release)

If you used the E (Edit) line command, some of these fields will already contain data. Page Down to see additional fields. All of the fields are shown on the example screen above for your reference.

Field descriptions

The fields on the Archive Attributes Details screen are described below.

Field	Description
Name	Type up to 24 characters for the name of the archive.

Field	Description
Archive Mask	Type up to 44 characters for the template (mask) you want to use to generate the data set name where the archive will be saved. Much like a dataset name, the mask is comprised of levels with each level separated by a period.
	Each level can be a constant or a symbol. A symbol is designated by having an ampersand (&) for the first character. There are two types of symbols:
	Product symbols - These symbols are listed below.
	System symbols - These symbols are installation- specific. Contact your systems support department for assistance in determining their values. In addition, the D SYMBOLS operator command can be used.
	For example, a mask of &JOBNAME.&STEPNAME.&DDNAME would create an archive name that identifies what job, step, and DD card created this SYSOUT. This way, the archive name will match the job name.
	Note: If you prefer, you can type a specific data set name and not use a mask.
	The following masks can be used in this field:
	&JOBNAME - The name of the job associated with this archive.
	• &STEPNAM - The name of the step associated with this archive.
	&PROCSTP - The name of the procedure step associated with this archive.
	&DDNAMEA - The name of the DD card in the job associated with this archive.
	• &JOBNUMB - The JES job number associated with this archive.
	&USERIDA - The RACF user ID associated with this archive.
	&GROUPNA - The RACF group name associated with this archive.
	&GDG - The name of an existing GDG base. Output Manager allocates a +1 of the data set when creating a new member of an existing GDG. If the &GDG parameter is used, it must the last level (the last item in the mask). The GDG base must be defined separately, meaning a new GDG base will not be created by the mask.
Retention Period	Type a number between 1 and 9999 to indicate how many days to keep this archive.
Management Class	Type up to eight (8) characters for the name of the management class.
Storage Class	Type up to eight (8) characters for the name of the storage class.
Vol Sers	Type up to six (6) characters in each of the five fields to list the volume serial numbers associated with this archive.

Field	Description
Device Type	Type up to eight (8) characters for a generic unit or device address.
Data Class	Type up to eight (8) characters for a data class.
Space Units	Indicate the type of space units associated with this archive. Valid entries are:
	• Blocks
	• Tracks
	• Cylinders
	Kilobytes
	Megabytes
	• Bytes
	Records
Average record unit	Indicate the size of the average record unit. The last character in the size must be one of the following:
	• M - Megabytes
	• K - Kilobytes
	• B - Bytes
Primary quantity and Secondary quantity	Type a number for the primary quantity and secondary quantity based on the unit type listed in the "Average record unit" field. Specify values that you would expect to reasonably satisfy this report's captured data.
	The exact upper limits of the values are not easily determined as it depends upon how you are requesting space (tracks, cylinders, blocks) and the device that is eventually selected to hold the data. If you request a value that is too large or too small, the archiving process will fail.
	Check with your storage management group for guidance. Instead of explicitly coding a value for the Primary Quantity and Secondary Quantity fields, we strongly recommend consulting with your storage management group to determine a set of data classes and management classes that will model your archiving needs.
Block Length	Type a number between 0 and 65,535 for the length of the block, based on the unit type listed in the "Average record unit" field.
Normal Disposition	Indicate the standard disposition of this archive by entering one of the following:
	Catalog - The archive is accessible through a catalog.
	Keep - Save this archive.
Abnormal Disposition	Indicate what to do with this archive if the "save to archive" fails. Valid entries are:
	Catalog - The archive is accessible through a catalog.
	• Keep - Save this archive.
	<u>-</u>

Field	Description
Release Unused Space	Indicate whether the unused space should be released. Valid entries are:
	Y - Yes, release the unused space.
	• N - No, do not release the unused space.

Reports

There are several options on the Administrative Functions menu (option A on the Output Manager main menu) that relate to creating reports:

- **R** Report Selection Rule. You create a report selection rule to identify archives that are candidates for Basic and Custom reporting. When certain attributes of an archive (SYSOUT) match the selection criteria specified in the report selection rule, a Basic report is created. A Basic report represents the entire SYSOUT produced by the application. This report will be listed under the View Reports, Reports screen (option V.R from the main menu) as a "captured" report. Output Manager will then look to see if there are any custom report definitions that use the same layout as the one assigned to this report selection rule. This is what causes the creation of the Custom reports from the Basic reports.
- L Report Layouts. The layout defines how the original report looks as produced by the application. You re-create the layout of the pages that you want to include in a custom report by designing pages, areas, and fields to show where the report data can be found.
- C Custom Reports. A Custom report is a subset of a Basic report. It can represent a portion or all of the pages in the Basic report. The custom report definition specifies the conditions that must be true to assign a page in the archive to the custom report. The conditions are based on the values you specify for one or more fields defined by the layout associated with the custom report. For example, if the value in the LOCATION field is equal to SPRINGFIELD, then Output Manager generates a custom report that only contains data that relates to SPRINGFIELD.

When a captured SYSOUT matches the job information in the report selection rule, the report layout that you created is read into memory, along with any custom report definitions that reference the same report layout. Each page of the captured report is compared to the report layout and the criteria in the custom report definition to see if it is a match. If the page matches, the page is assigned to the custom report. If it does not match, that page is not used in the custom report.

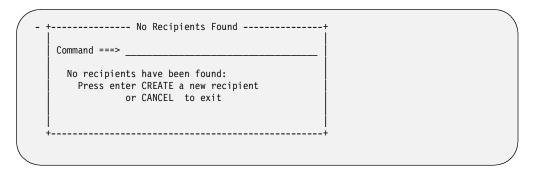
Each of these custom report options is described in Chapter 7, "Creating Reports" on page 107. Refer to this chapter for more details on these options.

Maintaining recipient IDs

To view a list of all the possible recipients, select option J, **Recipient IDs**, on the Administrative Functions menu (option A.J from the Output Manager main menu), and press Enter. The sections below describe how to add a new recipient ID and how to access an existing ID.

Adding the first recipient

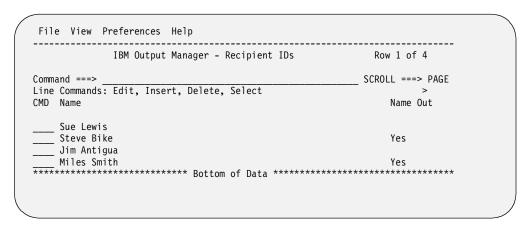
The first time you use the Recipient IDs option, the following window displays because no recipient IDs have been defined:



To add an ID, press Enter. Otherwise, type CANCEL to exit. When you press Enter, you are taken to the Recipient Details screen, which is described in the next section.

Adding a recipient ID

If at least one recipient ID has already been defined, a screen similar to the following will display when you choose option J, Recipient IDs, on the Administrative Functions menu (option A.J from the main menu):



To add a recipient ID, type I (Insert) next to any of the recipient IDs. The Recipient Details screen displays, where you can type information in the fields to describe this recipient. A blank Recipient Details screen is shown next.

```
File Links Help
_____
           IBM Output Manager - Recipient Details
                                SCROLL ===> PAGE
Command ===> _
                                               More: +
Descriptive data
  Name . . .

Name Out ____ (Yes,No ... generate name as outputcard)

Userid ____ (MVS Userid)
   Department ____
   Room . . . _
   Building ...
   Address . _
 Report behaviours
  (Jes printer destination)
                             (... to group like reports together)
                             (Yes, No ... Physically burst on 3800)
                             (Yes,No ... System areabel)
(Printer attributes)
   Sys Area . ____
Print Attr
Rept Title ____
```

You must press Page Down to see all of the fields. They are shown on the screen above for your reference.

Field descriptions

The fields on the Recipient Details screen are described below.

Field	Description
Name	Type up to 60 characters for the name of the person who should receive a report.
Name Out	Type Y or N to indicate whether you want the descriptive data to be used when printing a report. The descriptive data will generally appear on the JES banner pages, though this is installation-dependent.
User ID	Type up to eight (8) characters for the MVS Userid that is associated with this person.
Department	Type up to 60 characters for the department name or ID, such as "Accounting" or "HR."
Room	If the person is associated with a specific room or office number, list it here. Type up to 60 characters for the Room name.
Building	If your company has more than one building, indicate in which office building the person resides. Type up to 60 characters for the Building name.
Address	Use up to four lines of 60 characters each to specify a mailing address for this person.
Dest	Type up to 27 characters for the JES printer destination.
Class	Type one character to indicate the SYSOUT class used to print the report.
Groupid	Type up to eight (8) characters for a group name if you are grouping similar reports together.

Field	Description
Copies	Type a number between 0 and 999 to indicate the number of copies to print. If you enter a zero (0), the report will be distributed online, but not printed.
Duplex	Indicate if you want this report to be printed in "duplex" mode, which means printing on both sides of the paper, whether in portrait or landscape format. Valid entries are:
	No - Do not print this report in duplex mode.
	Normal - Print this report in duplex mode with the output bound along the long edge of the paper.
	Tumble - Print this report in duplex mode with the output bound along the short edge of the paper.
Burst	Type Y or N to indicate whether you want to separate (burst) the report into smaller reports based on a specific criteria, such as branch number.
Label	Type Y or N to indicate whether you want to print a security label with this report.
Sys Area	Type Y or N whether you want to print a system area label with this report.
Print Attr	Refer to the "Assigning printer attributes to a recipient ID" section for instructions on how to associate printer attributes with this recipient ID.
	If you have already assigned printer attributes to this recipient ID, the name of the printer attributes information will be displayed here.
Rept Title	Type up to 60 characters for a report title.

You are not required to make an entry in every field on this screen. After entering information, press Enter to add this person to your distribution list.

Assigning printer attributes to a recipient ID

You must tie printer attributes to a recipient ID to ensure the reports are printed correctly for this recipient. To assign printer attributes to a recipient ID, follow these steps:

- 1. Select option J, Recipient IDs, on the Administrative Functions menu (option A.J from the Output Manager main menu).
- Enter either the S (Select), E (Edit), or I (Insert) line command next to a recipient ID. The Recipient Details screen displays. In the sample screen below, the I (Insert) line command was used.

	Output Manager - Recipient Details
ommand ===>	SCROLL ===> PAGE
	More: +
escriptive data	
Name Name Out	(Voc No gononato namo as output cand)
	(Yes,No generate name as outputcard) (MVS Userid)
	` ,
Doom	
Ruilding	
Addross	
Report behaviours	
Dest	(Jes printer destination)
Class	(SYSOUT class to print to)
Groupid	(to group like reports together)
Copies 0	(Number of copies to print)
Duplex	(No, Normal, Tumble)
Burst	(Yes,No Physically burst on 3800)
Label	(Yes, No Security label)
Sys Area	(Yes,No System areabel)
Print Attr	(Printer attributes)

3. Place the cursor on the "L" in the Links pull-down menu at the top of the screen, and press Enter. The following menu displays:

```
Links Help
  1. Choose Printer Attribute
  2. Edit Printer Attribute
```

4. Type 1 to select "Choose Printer Attribute." The following window displays:

```
------ IBM Output Manager - Printer Attribute Selection -------
Line Commands: Select, Add, View, Edit, Delete
CMD Name
```

- Type **S** next to the printer attribute you want to associate with this recipient, then press Enter. The "S" changes to a slash (/). Press End (PF3) to return to the Recipient Details screen.
- 6. PageDown (PF8) to locate the Print Attr field on the Recipient Details screen. The name of the printer attributes you just selected should display in the Print Attr field. In the example below, the Print Attr field displays the name "printer test":

```
File Links Help
                   IBM Output Manager - Recipient Details
Command ===>
                                                           SCROLL ===>
                                                                   More: -
    Department
    Room . . .
    Building
    Address. .
  Report behaviors
    Dest . . .
                                                (Jes printer destination)
    Class . .
                                     (SYSOUT class to print to)
    Groupid. .
                                     (... to group like reports together)
    Copies . . 0
                                     (Number of copies to print)
    Duplex . .
                                     (No, Normal, Tumble)
    Burst ..
                                     (Yes, No ... Physically burst on 3800)
    Label . .
                                     (Yes, No ... Security label)
    Sys Area .
                                     (Yes, No ... System areabel)
    Print Attr: printer test
                                               (Printer attributes)
    Rept Title
```

Selecting an existing ID

If at least one recipient ID has already been defined, the following screen displays when you choose option J, Recipient IDs, on the Administrative Functions menu (option A.J from the Output Manager main menu):

```
File View Preferences Help
          IBM Output Manager - Recipient IDs
                                                Row 1 of 4
Command ===>
                                               SCROLL ===> PAGE
Line Commands: Edit, Insert, Delete, Select
CMD Name
                                                  Name Out
   Sue Lewis
  Steve Bike
                                                  Yes
   Jim Antiqua
   Miles Smith
                                                  Yes
```

You can page right (PF11) repeatedly to scroll through the existing information about the IDs displayed on this screen.

Line commands

There are several line commands you can use on the Recipient IDs screen. These commands are:

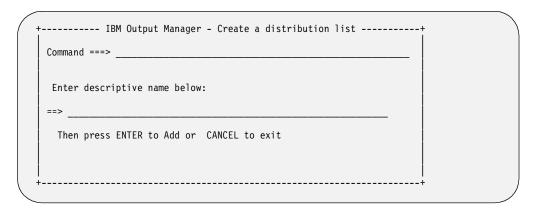
- S Select an ID. The Recipient Details screen described in "Adding a new ID" on page 36 will display the information associated with this ID for your review.
- I Insert a new ID. The Recipient Details screen described in "Adding a new ID" on page 36 will display so you can enter information for a new recipient ID.
- D Delete an ID. A pop-up window asks you to confirm that you want to delete the ID. Press Enter to delete or use CANCEL to keep the ID.
- E Edit an ID. The Recipient Details screen described in "Adding a new ID" on page 36 will display so you can change the information associated with this recipient ID.

Maintaining distribution lists

To view all of the distribution lists, select option D, Distribution Lists, on the Administrative Functions menu (option A.D from the Output Manager main menu), and press Enter. The sections below describe what happens if you need to add a distribution list or if you want to select an existing list.

Adding a new list name

The following screen displays if no distribution list has been defined or if you use the I (Insert) line command:



Type up to 60 characters to specify a name for this distribution list, and press Enter.

Selecting an existing ID

If at least one distribution list has already been defined, the following screen displays when you choose option D, Distribution Lists, on the Administrative Functions menu (option A.D from the Output Manager main menu):

```
File Help
           IBM Output Manager - Distribution Lists
                                                            Row 1 of 5
Command ===>
                                                     SCROLL ===> PAGE
Line Commands: Edit, Insert, Delete, Select
CMD Description
    Local employees
    Remote employees
    Chicago employees
    Bank Branch Ash employees
**** *********** Bottom of Data *****************************
```

The names of distribution lists are displayed for your review.

Line commands

There are several line commands you can use on the Distribution Lists screen. These commands are:

D - Delete the distribution list. A pop-up window appears asking you to confirm the deletion.

- E Edit the name of a distribution list. The Update a Distribution List window displays, where you can change the name of this list.
- I Create a new distribution list. The Create a Distribution List window displays, with the name of an existing distribution list. Type over the name that displays. Both the original name and the new name will be saved.
- S Select a distribution list. The Distribution List screen is displayed, listing all of the names of the people who are assigned to the distribution list.

Editing or inserting a new list name

When you type either the E (Edit) or I (Insert) line command, a window pops up that looks similar to the one below:

```
----- IBM Output Manager - Update a distribution list ------
Update descriptive name below:
==> Bank Branch Ash employees___
 Then press ENTER to Update CANCEL to exit
```

The name of an existing distribution list displays. Type up to 60 characters to change the name of the existing list (Edit) or to create a new list (Insert). Press Enter to save the changes. When creating a new list, both the original name and the new name will be saved.

Viewing recipient IDs assigned to a list

To view the recipient IDs that are currently assigned to a distribution list, type the S (Select) line command next to the name of a distribution list and press Enter. The Distribution List screen appears, displaying the names of the recipients currently assigned to this distribution list. An example is shown below:

```
File Help
           IBM Output Manager - Distribution List
                                                    Row 1 of 3
                                SCROLL ===> PAGE
Command ===>
List Name: Bank Branch Ash employees
Line Commands: Insert, Remove, Edit, View, Set hardcopy
             Name
    Recipient Jim Antigua
    Recipient Steve Bike
    Recipient Miles Smith
        ******************** Bottom of Data ********************
```

In the example above, there are three recipient IDs assigned to the "Bank Branch Ash employees" distribution list.

Note: If no recipients have been defined for this distribution list, a different screen will appear first, asking you to choose recipients. Refer to "Adding recipient IDs to a distribution list" on page 88 for details.

Line Commands

There are several line commands you can use on the Distribution List screen:

- I Insert a new recipient. Refer to "Adding recipient IDs to a distribution list" on page 88 for instructions.
- **R** Remove an existing recipient from this list.
- E Edit the details for this recipient. Refer to "Editing or Viewing a Recipient ID" for more information.
- **V** View the details about a specific recipient. Refer to "Editing or Viewing a Recipient ID" for more information.
- **S** Set the hardcopy option you want to use for this recipient.

Editing or Viewing a Recipient ID

When you use the E (Edit) line command or the V (View) line command on the Distribution List screen, the Recipient Details screen displays. In this example, Jim Antigua was the selected recipient, so the details associated with him are listed on the Recipient Details screen below:

```
File Links Help
             IBM Output Manager - Recipient Details
Command ===>
                                                  SCROLL ===>
                                                           More:
 Descriptive data
   Name . . . Jim Antigua____
                                (Yes,No ... generate name as outputcard)
(MVS Userid)
   Name Out
              JANT
   Userid
   Department Development
   Room . . . 632-A____
Building 1815____
   Address . 1815 N. Highland
              Oaktree Place, IL 61534
  Report behaviors
   Dest . . . _
                                         (Jes printer destination)
   (... to group like reports together)
   Duplex . . ___
                                (No, Normal, Tumble)
   Burst . . __
                                (Yes, No ... Physically burst on 3800)
```

If you used the V (View) line command, you can view the Recipient Details for a recipient ID, but you cannot change any of the details.

Setting the Hardcopy option for a distribution list

The Hardcopy option listed under the File pull-down menu allows you to specify whether all of the recipients in a distribution list will receive a printed version of the report. By setting the Hardcopy option for the entire distribution list, you do not need to set the Hardcopy option for each recipient in the list, unless you want to override the setting used for the list.

To assign a default Hardcopy setting for a distribution list, follow these steps:

1. Choose option A.D (Administrative Functions, Distribution Lists) from the Output Manager main menu.

Type **S** (Select) next to the distribution list you want. The Distribution List screen displays the names of all the recipients in this distribution list. In the example below, the Bank Branch Ash employees distribution list was selected, and there are three recipients in this list.

```
File Help
        IBM Output Manager - Distribution List Row 1 of 3
                                       SCROLL ===> PAGE
Command ===>
List Name: Bank Branch Ash employees
Line Commands: Insert, Remove, Edit, View, Set hardcopy
CMD Type
           Name
   Recipient Jim Antigua
  _ Recipient Steve Bike
   Recipient Miles Smith
```

3. Place your cursor on the "F" in "File", which appears at the top of the screen, and press Enter. The following pull-down menu displays:

Note: Although there is a Set hardcopy line command on this screen, that command assigns a Hardcopy setting for a specific recipient in the list, not for the entire list.

```
File Help

    Refresh

  2. Save
  3. Hardcopy
  4. Exit
```

Type 3 to select Hardcopy, and press Enter. The Default Hardcopy screen displays:

```
-----+
Command ===> _
The current hardcopy setting for the list is...: <Not Set>
Choose one of the following options:
        1 Set default hardcopy to Yes
        2 Set default hardcopy to No
        3 Remove the current hardcopy default
```

The first time you use this option, the hardcopy setting is listed as "Not Set." To change this, type 1 for "Yes" to print out a report for each person in the

distribution list, or 2 for "No" to prevent the report from being printed for everyone in the list, and press Enter.

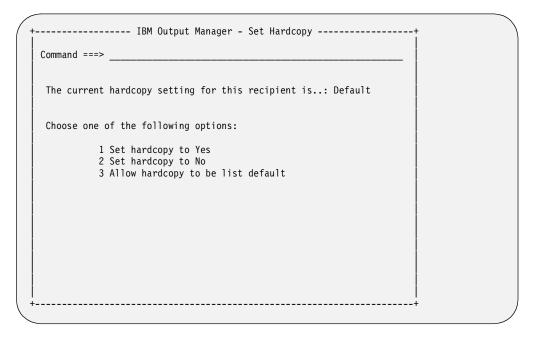
You have now assigned a default Hardcopy setting for the distribution list. To verify this, simply return to the File pull-down menu, type 3 for Hardcopy, and see what is listed as the current hardcopy setting.

Setting the Hardcopy option for a specific recipient

On occasion, you may need to change the Hardcopy setting for a specific recipient, such as when a recipient is on vacation. You can make a change for a specific recipient through the Set Hardcopy line command on the Distribution Lists screen.

To display the Hardcopy screen where you can assign a setting to individual recipients, follow these steps:

- 1. Go to option A.D (Administrative Functions, Distribution Lists) from the Output Manager main menu.
- Type **S** (Select) next to a distribution list to display the list of recipients assigned to this list. The Distribution List screen displays.
- Type the **S** (Set Hardcopy) line command next to a specific recipient on the Distribution List screen. The following window displays:



The Set Hardcopy screen allows you to specify whether this recipient should get a hardcopy (printout) of any report associated with a distribution list to which this recipient belongs. For example, if Jim Antigua is assigned to the Human Resources and Recruiting distribution lists, and Set Hardcopy is set to "Yes" for him, he will always receive a print out of any reports that use the Human Resources and Recruiting distribution lists.

If you choose to use the Default setting, then this recipient will use the value specified for the entire distribution list. This allows you to control who gets a hardcopy at the Distribution List level, rather than having to assign a setting for each recipient.

For example, assume that Jim, Brad, and Miles are part of the Management distribution list and the Hardcopy setting for this list is "Yes." If Jim, Brad, and Miles have their individual Hardcopy option set to "Default", then they will receive a print out of the reports that use the Management distribution list. However, if Jim and Brad have a setting of "Default", but Miles has a setting of "No" because he is on vacation this week, then Miles will not receive a print out of the reports associated with the Management distribution list. The "No" assigned to Miles overrides the "Yes" assigned to the entire Management distribution list.

Adding recipient IDs to a distribution list

When you have named at least one distribution list, you are ready to choose the recipient IDs that you want to include in this distribution list. To do this, follow these steps:

1. Choose option D, **Distribution Lists**, on the Administrative Functions menu (option A.D from the Output Manager main menu), and press Enter. The Distribution Lists screen will display the names of any existing lists. A sample is shown below.

```
File Help
        IBM Output Manager - Distribution Lists
                                   SCROLL ===> PAGE
Command ===>
Line Commands: Edit, Insert, Delete, Select
CMD Description
Local employees
Remote employees
____ Chicago employees
   Bank Branch Ash employees
```

- Type **S** (Select) next to the distribution list to which you want to add recipients. Press Enter.
- If there are already recipient IDs associated with this list, the IDs will be displayed. If there are no recipient IDs in this list, the Recipient Selection window displays so you can choose the ones you want from all of the available recipient IDs.

```
------ IBM Output Manager - recipient selection --------
Command ===>
                               SCROLL == => PAGE
line cmds: Select, Add, View, Edit, Delete
CMD Name
   Sue Lewis
   Steve Bike
 __ Jim Antigua
   Miles Smith
```

- 4. Type **S** (Select) next to the recipient IDs that you want to add to the distribution list, and press Enter. The "S" changes to a slash (/).
- 5. Press End (PF3) to return to the previous screen, which lists only the IDs assigned to this list. A message "Recipients added" displays at the bottom of the screen. Press End (PF3) to return to the previous screen. Press Enter again to save the recipients with this distribution list. A message displays indicating that this list has been saved.

Maintaining printer attributes

To view or edit the printer attributes that are associated with reports, select option K, **Printer Attributes**, on the Administrative Functions menu (option A.K from the Output Manager main menu), and press Enter. The sections below describe what to do to define new printer attributes or to view existing printer attributes.

Viewing printer attributes

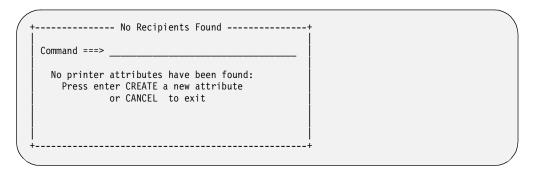
If attributes have already been assigned to a printer, then the following screen displays when you choose option K, **Printer Attributes**, on the Administrative Functions screen (option A.K from the Output Manager main menu):

All of the fields and line commands are explained in the next section, "Adding printer attributes".

Adding printer attributes

There are two methods for defining attributes for a printer:

- If a printer's attributes have already been defined, type **A** in the line command field (Cmd) to add a new printer.
- If no printer attributes have been defined, the following pop-up window displays:



Press Enter to create a new set of printer attributes. Otherwise, press CANCEL to exit. If you press Enter, the "General Attributes" section and the "3800 Printer related fields" section, will display:

•	ager - Print Attributes Detail
Command ===>	SCROLL ===> PAGE
	More: +
General Attributes	
Name	
FCB	(Forms Control Buffer Name)
Form	(Form Name)
UCS	(Universal Character Set)
Control	(Printer control)
Norm Disp	(Normal Disposition)
Cond Disp .	(Abnormal Disposition)
Priority 0	(Print priority)
Line Count . 0	(Max lines per page)
Process mode	(Line, Page, or name)
3800 Printr related fields	
Flash	(Flash overlay)
Flash count. 0	(No of pages to flash)
Front overlay	(Front overlay)
Back overlay	(Back overlay)
Form Length 0	(Form length in Inches or CM)
Front offset 0 0	(Frontside offset X,Y coordinates)
Back offset 0 0	(Frontside offset X,Y coordinates)

The next section, "PSF related fields", is shown below:

```
File View Preferences Help
              IBM Output Manager - Print Attributes Detail
                                              SCROLL ===> PAGE_
Command ===>
                                                        More: - +
 PSF related fields
   Format Def . __
                                  (Name of FORMDEF)
   Page Def . .
                                  (Name of PAGEDEF)
   Color Map .
                                  (Name of COLORMAP)
   Fiche setup
                                  (Name of fiche setup)
   Input tray . \overline{0}
                                  (Input tray)
   Output bin . 0
                                 (Output bin)
   Notify
                                   (PSF notify userid)
   FSS Data . .
   Err Blocking
                                  (Block, Unblock, Char Blk, Pos blk)
   Print Errors _
                                  (Print errors n times)
   Error Disp
                                  (Disposition when print error)
   Print Options _
                                  (Printer options)
   Remote Queue
```

Fields for "User Libraries" and "User Data" are next.

	rint Attributes Detail	NII> DACE
	 	DLL ===> PAGE More: - +
User Lbraries	 	-
		- -
	 	-
		- -
		- -
User Data	 	
	 	
	 	

There are 16 lines for the User Data field.

The last section defines "Miscellaneous fields," as shown on the next page.

	ager - Print Attributes Detail SCROLL ===> PAGE
milianu>	SCROLL ===> PAGE More: - +
Miscelaneous fields	
Char arg tbl	(Character Argument Table)
Checkpt lines 0	(Lines per page for checkpoint)
Checkpt pages 0	(Page count to checkpoint after)
Checkpt secnd 0	(Number of seconds between checkpoints)
Compact table	(Compaction table name)
Left Margin 0	(3211 printer left margin)
Right Margin 0	(3211 printer right margin)
Overflow	(JES3 overflow check)
Retain succes	(How long to retain succesfully xmitted)
Retain failed	(How long to retain failed xmitted)
Retry limit 0	(Limit on retry attempts for xmit)
Retry time	(How long to retry xmitting)
Table ref chr	(Data contains table reference char)
Copy Module O	(Copy modification module, TRC)
Port Number 0	(FSS printer port number)
Resolution	(P240, P300 - Resolution format)
Threshold . O	(JES3 threshold limit)
Writer	(External writer)

Field descriptions

The fields on the Printer Attributes Detail screen are described below.

Field	Description
General Attributes:	
Name	Type up to 60 characters for a name to print on the separator pages of the output.
FCB	Type up to four (4) characters for the forms control buffer (FCB) name that JES is to use to print a SYSOUT data set.
Form	Type up to eight (8) characters for the form name on which the SYSOUT data set is to be printed.
UCS	Type up to four (4) characters for the Universal Character Set (UCS) that JES is to use when printing the SYSOUT data set.
Control	Type up to eight (8) characters for the printer control to indicate the spacing for the output. Valid values are:
	Program - Each logical record starts with a carriage control character.
	Single - Print the output with single spacing.
	Double - Print the output with double spacing.
	Triple - Print the output with triple spacing.

Field	Description
Norm Disp	Type up to five (5) characters for the normal disposition of the SYSOUT data set.
	Keep - Print the SYSOUT data set. Afterwards, change disposition to LEAVE.
	Purge - Delete the SYSOUT data set without printing it.
	Write - Print the SYSOUT data set, then purge it from the system.
	Hold - Hold the SYSOUT data set until the user or operator releases it, which changes the disposition to WRITE, or purges it.
	Leave - After the user or operator releases the SYSOUT data set, the disposition of the data set changes to KEEP. If LEAVE output is not released, the system holds it until someone purges the data set from the system.
Cond Disp	Type up to five (5) characters to indicate what to do with this SYSOUT if there is a failure. Valid entries are:
	Keep - Print the SYSOUT data set. Afterwards, change disposition to LEAVE.
	Purge - Delete the SYSOUT data set without printing it.
	Write - Print the SYSOUT data set, then purge it from the system.
	Hold - Hold the SYSOUT data set until the user or operator releases it, which changes the disposition to WRITE, or purges it.
	Leave - After the user or operator releases the SYSOUT data set, the disposition of the data set changes to KEEP. If LEAVE output is not released, the system holds it until someone purges the data set from the system.
Priority	Type a number between 0 and 255 for a print priority, where a higher number indicates the data set is to be printed sooner.
Line Count	Type a number between 0 and 255 for the maximum number of lines to be printed per page.
	Note: Line Count only applies to JES2 systems.
Process Mode	Type one of the following for the process mode to be used for printing the SYSOUT data set:
	Line - The data set uses a line-mode printer.
	Page - The data set uses a page-mode printer.
	Name - Type a name up to eight (8) characters in length to specify a process mode.
3800 Printer related fields:	

Field	Description
Flash	Indicate whether a forms overlay should be used in printing the SYSOUT data set. Valid values are:
	• Name - Type up to four (4) characters for the name of the forms overlay to be used in printing the SYSOUT data set.
	STD - Use the standard forms overlay, based on the overlay that was specified during JES3 initialization.
	Note: STD only applies to JES3 systems.
	None - No flashing for this SYSOUT data set.
Flash count	Type a number between 0 and 255 for the number of copies to flash with the overlay. A value of zero (0) indicates that no copies should be flashed with the overlay.
Front overlay	Type up to eight (8) characters for the name of the front overlay. The overlay will be included on the front side of each printed sheet for this data set.
Back overlay	Type up to eight (8) characters for the name of the back overlay. The overlay will be included on the back side of each printed sheet for this data set.
Form Length	In the first field, type a number to set the length of pages to print without reconfiguring the printer. Use the format of nn.mmm, where nn is a one- or two-digit number and mmm represents up to three digits after the decimal point.
	In the second field, type either IN for inches or CM for centimeters.
	For example, if you typed a value of 12.567 CM, a paper length of 12.567 centimeters will be sent to the printer. A value of 7 IN indicates a paper length of seven (7) inches will be sent to printer.
	Note: If you use a decimal point, you must specify at least one digit to the left of the decimal point, such as 0.25 or 3.5.
Front offset	Type a number between 0 and 9999 in both fields to represent X-Y coordinates for the front-side offset. This offset affects only the front side of each page of output.
Back offset	Type a number between 0 and 9999 in both fields to represent X-Y coordinates for the back offset. This offset affects only the back side of each page of output.
PSF related fields:	
Format Def	Type up to eight (8) characters for the name of a library member, the FORMDEF, that contains statements to tell the Print Services Facility (PSF) how to print the SYSOUT data set on a page-mode printer.
Page Def	Type up to eight (8) characters for the name of the library, the PAGEDEF, that contains statements to tell the Print Services Facility (PSF) how to print the SYSOUT data set on a page-mode printer.
Color Map	Type up to eight (8) characters for the name of the data set, the COLORMAP, that contains color translation information.

Field	Description
Fiche setup	Type up to eight (8) characters for the name of the fiche setup.
Input tray	Type a number between 1 and 255 for the number associated with the input tray.
Output bin	Type a number between 1 and 65,535 for the number associated with the output bin where the SYSOUT data set should be sent. If no bin is specified, the output will be placed in a default output bin.
Notify	Type up to four user IDs (17 characters total) of the people you want to notify when the output is printed.
	If you are specifying two or more user IDs, you must type a node name in parentheses before each user ID. Use the format of [node.]userid.
FSS Data	Type up to 127 characters to describe functional subsystem (FSS) data. This parameter is passed from a spooling product to a functional subsystem application (FSA) or other de-spooler.
Err Blocking	There are two type of errors that can either be reported normally or blocked:
	• <i>Print-positioning errors.</i> These errors occur when the printed data goes beyond the physical limits of the page, or beyond the overlay or logical page that is associated with this print job.
	• <i>Invalid character errors</i> . These errors occur when a text character is not part of a font set.
	Type one of the following to indicate how to handle "positional" and "invalid character" errors:
	Block - Print-positioning errors and invalid character errors are not reported to PSF.
	Unblock - Print-positioning errors and invalid- character errors are reported to PSF.
	Char Blk - Invalid character errors are blocked, but print-positioning errors are reported.
	Pos blk - Print-positioning errors are blocked, but invalid character errors are reported.
Print Errors	In the first field, type "Yes" or "No" to indicate whether all error messages should be printed at the end of the output data set. If you type "No", the only messages that are printed are those that force an early termination of the print job.
	In the second field, type a number from 0 - 999 to indicate the maximum number of error messages to allow before cancelling the printing of the current data set. A value of zero (0) is treated as infinite. This message count includes all error messages that are generated by PSF, even if you specified "No" in the first field to prevent the printing of error messages.

Field	Description
Error Disp	Type one of the following values to indicate what to do if an error occurs during printing that forces the termination of the print job:
	Quit - Release the data set back to JES as complete, even if a an early termination error occurs during printing.
	Hold - Keep the data set on the spool until a system operator releases it.
Print Options	Type up to 16 characters for the name of a data set that contains additional print options.
Remote Queue	Type up to 125 characters to describe a remote queue for the printer.
User Libraries	Type up to 352 characters to list the names of one to eight libraries containing AFP resources to be used by the printer when processing SYSOUT data sets. The system searches the libraries listed in the "User Libraries" field before using any system-defined resources.
	You can also use the page definitions and form definitions in combination with the user libraries. To do this, type a name in the "Format Def" and "Page Def" fields. The system will search the user libraries for the page or format definitions before continuing onto the system libraries.
User Data	Type up to 16 installation-defined keywords and their values, or a string. Each of the 16 lines can hold up to 58 characters for a total of 928 characters.
Miscellaneous fields:	
Char arg tbl	Type up to four (4) characters for each font name that may be used to print the SYSOUT data set. You can specify up to four font names for the character arrangement table.
Checkpt lines	Type a number between 0 and 32,767 to specify the number of lines per page for a checkpoint.
Checkpt pages	Type a number between 0 and 32,767 to specify how many pages are allowed after the checkpoint.
Checkpt second	Type a number between 0 and 32,767 to indicate the number of seconds allowed between checkpoints.
Compact Table	Type up to eight (8) characters for the name of a compact table for JES to use when sending the SYSOUT data set to a SNA remote terminal.
Left Margin	Type a number between 0 and 99 to specify the left margin for a 3211 printer. The default is one (1) for flush left, indicating full-width lines.
	Note: Type a value in either the left margin field or the right margin field, but not both. They are mutually exclusive.
Right Margin	Type a number between 0 and 99 to specify the right margin for a 3211 printer. The default is one (1) for flush right, indicating full-width lines.
	Note: Type a value in either the left margin field or the right margin field, but not both. They are mutually exclusive.

Field	Description	
Overflow	Indicate whether to perform a JES3 overflow check by entering one of the following values:	
	• Yes- The printer should eject whenever an end-of- forms indicator is encountered.	
	• No - Do not check for forms overflow.	
Retain success	Indicate how long to retain the data set that has been successfully transmitted. Use the format HHHH:MM:SS to indicate hours, minutes, and seconds, or type the keyword FOREVER to retain the data set indefinitely.	
	For example, if you want to release the data set to JES two hours after a successful transmission, type the following value in the "Retain success" field:	
	0002:00:00	
Retain failed	Indicate how long to retain the data set that has not been successfully transmitted. Use the format HHHH:MM:SS to indicate hours, minutes, and seconds, or type the keyword FOREVER to retain the data set indefinitely.	
	For example, if you want to release the data set to JES three hours after the last transmission fails, type the following value in the "Retain failed" field:	
	0003:00:00	
Retry limit	Type a number between 0 and 32,767 to indicate how many times to retry transmitting this data. If the retries are unsuccessful, the value associated with the "Retain failed" field will be used to determine what to do next.	
Retry time	Indicate how long to wait between each attempt to transmit this data. The format is HHHH:MM:SS to indicate hours, minutes, and seconds.	
Table ref chr	Type "Yes" or "No" to indicate whether the data contains table reference characters (TRC) codes. The TRC code indicates which font in the "Char arg tbl" field should be used to print the record.	
Copy Module	Type up to four (4) characters in each field to indicate the name of the copy modification module, or type "TRC".	
Port Number	Type a number between 1 and 65,535 for the TCP/IP port number where FSS connects to the printer.	
Resolution	Type one of the following to indicate the type of resolution used to format the print data set:	
	• P240 - Formatted with 240 pels per inch.	
	• P300 - Formatted with 300 pels per inch.	
Threshold	Type a number between 1 and 99,999,999 to specify the maximum size of the SYSOUT data set for the JES3 threshold. If the size of the data set exceeds the threshold value, JES3 creates a new unit of work and queues it for printing. This may cause copies of the SYSOUT data set to be printed simultaneously on different printers.	
Writer	Type up to eight (8) characters for the name of an external writer to process the SYSOUT data set, rather than JES.	

Line commands

There are several line commands you can use on the Printer Attributes Detail screen. These commands are:

- S or V Select or View a printer's attributes. The screen described in "Adding printer attributes" on page 89 will display the information associated with this printer for your review.
- **A** Add a new printer. The screen described in "Adding printer attributes" on page 89 will display so you can enter information for a new printer.
- **D** Delete a printer. A pop-up window asks you to confirm that you want to delete the printer. Press Enter to delete or use CANCEL to keep the printer.
- E Edit a printer. The screen described in "Adding printer attributes" on page 89 will display so you can change the information associated with this printer.

How to tie printer attributes to recipients

For information on how to associate printer attributes with a specific recipient ID, refer to "Assigning printer attributes to a recipient ID" on page 80.

Activity Monitor

During the course of Output Manager operations, many different activities occur. Each different type of activity that is defined for Output Manager is referred to as a "class" of activities. Examples of activities that Output Manager is designed to track are job selection, archiving of spool datasets, printing of reports, and online viewing of archives.

During the processing of an activity, many events occur, such as allocating the archive, opening the archive, and querying the rules table. Events can either be normal or exceptional. If an activity has one exceptional event, then the activity is considered to be exceptional. Examples of exceptional events include archive dataset allocation failure and command failure.

These activities are logged to two different targets, either a dynamically allocated SYSOUT file or a DB2 table, or possibly both. The purpose of the two files is to be able to diagnose startup problems when there are problems with the DB2 interface.

In addition to these two files, there is also an activity class control table, which controls the volume of activities that are logged. Each class has a unique set of counters and settings to control:

- where the data is to be logged
- how many of each class of activities, both normal and exceptional, are to be logged.

You can assign these values through the Activity Monitor screen. Refer to "Using the Class Table" on page 102 for more details.

Events contain mostly textual data, however, diagnostic information may also be present to be interpreted by Technical Support for diagnostic purposes.

Activities start and end, and depending upon when the user is viewing them, they may still be active. Some activities are "long lived" and last almost the entire time that Output Manager is running.

Viewing the Activity List

To view recent archive activity, select option V, **Activity Monitor**, on the Administrative Functions screen (option A.V from the Output Manager main menu). The Activity List screen displays:

IBM Output Manager - Activity List		Row 1 of 75	
Command ===>		SCROI	LL ===> PAGE
ne Commands: S	elect		
D Exceptions	Activity	Events	Comp code
_	Archive Query	6	0
- *Exception	Command:	2	0
_	Command:	2	0
_	Command:	2	0
_ *Exception	Command:	2	0
	Subsystem Start	0	0
_	Command:	1	0
-	Subsystem Start	0	0
_	Rules service	6	0
	Archive Query	6	0
_	Rules service	6	0
_	Rules service	6	0
	Rules service	6	0
_	Rules service	6	0
	Rules service	6	0
	Rules service	6	0
	Rules service	6	0
_	Rules service	6	0

Field descriptions

The fields on the Activity List screen are described below.

Column	Description	
Exceptions	Indicates whether an exception has occurred for an activity item.	
Activity	The activity recorded. Possible activities are:	
	Archive Query	
	Command	
	Rules Service	
	Subtask Start	
	Subsystem Start	
	Task Manager	
Events	The number of events that occurred during this activity.	
Comp code	The return code that resulted from running this activity.	
Date	The date the activity was performed in MM/DD/YYYY format.	
Time	The time the activity was performed in HH:MM:SS format.	
Userid	The ID of the user who initiated the activity.	
Termid	The ID of the terminal or subsystem that was used to process this activity.	

Line commands

The only line command you can use on the Activity List screen is S (Select) to select an activity. This provides additional information on the events that occurred during this activity. An example is shown below:

```
File Help
   IBM Output Manager - Activity Events
                                                  Row 1 of 11
Command ===>
                                                  SCROLL ===> PAGE
Line Commands: Select
Exc Event
     00E4 008CD2A0 Send request start
     80 00
     00E4 008CD2AO Sending request
     00E4 008CD2AO Waiting on service
     00D4 008E0BE0 Archive Query service
     S 00000000
     00E4 008CD2A0 Service complete
     00E4 008CD2A0 Send request exit
     R4=00000000
```

You must Page Right to view all of the information associated with this activity. When you are done, press PF3 (End) to leave this screen and return to the Activity List screen.

Using the View menu

The Activity List screen has several views controlled by the View pull-down menu listed at the top of the screen. To use this menu, place the cursor on the "V" in "View" and press Enter. The following window displays several View options:

```
File View Help

    Exceptions

        Normal
        3. All
        4. After
        5. Active
        6. Class Table
```

You can change the information that is displayed on the Activity List screen by selecting one of the View options listed on the menu. The following table describes the View options.

Type of View	Description
Exceptions	Type 1, and press Enter, to display only those activities that are exceptions.

Type of View	Description
Normal	Type 2, and press Enter, to display only normal activities. on the Activity List screen.
All	Type 3, and press Enter, to display normal and exceptional activities on the Activity List screen. This also resets the date selection.
After	Type 4, and press Enter, to display a screen where you can specify a date and time. Only activities that occurred after the date and time will be selected. Refer to "Using the After view" for more details.
Active or Log	Type 5, and press Enter, to toggle the display between activities that are logged or those that are currently active. The other criteria stay in effect when toggling.
Class Table	Type 6, and press Enter, to display a list of defined activities that Output Manager tracks. Each activity is selectable and you can update the controls that affect the logging of activities.
	You can also specify a number for a counter to indicate when to stop recording activities for the class.
	This table is persistent and remains in effect across startups of Output Manager. For more information, refer to "Using the Class Table" on page 102.

Using the After view

Option 4 on the View pull-down menu at the top of the Activity List screen is the "After" view. This view enables you to limit the display of activities to those that occurred after a specific date and time. To access this view, follow these steps, starting on the Activity List screen, which is option A.V from the Output Manager main menu:

- Click on the "V" in the View pull-down menu at the top of the screen, and press Enter. A window displays the View options.
- Choose option 4, After, and press Enter. The following screen displays:

```
IBM Output Manager - Select Activities After -----+
Command ===>
  Enter date and time to select activites that occurred after
  the selected date and time
                             (None means today)
     Date . . . .
     Time . . . .
                             (None means last midnight)
     Reset . . .
                             (Yes, select all activities)
```

Now you are ready to make entries in the fields, which are described next.

Field Descriptions

The fields on the Select Activities After screen are described in the following table:

Field	Description
Date	Type a date in the format MM/DD/YYYY, or leave this field blank to indicate today's date. Only activities that occurred after this date will be selected for viewing on the Activity List screen.
Time	Type the time in the format HH:MM:SS, or leave this field blank to indicate the last midnight as the time. Only activities that occurred after this time will be selected for viewing on the Activity List screen.
Reset	If you want to reset the date and time so that all activities are selected, type "Yes" in this field. Otherwise, leave it blank to indicate that the specified date and time should be used. If no date or time is specified, the default is today's date, starting at midnight, for all activities.

Using the Class Table

The class table enables you to control the volume of activities that are logged. You can change the settings for the class table through the Activity Monitor option, which is option A.V from the Output Manager main menu. While on the Activity List screen, do the following:

- 1. Click on the "V" in the **View** pull-down menu at the top of the screen, and press Enter. A window displays the View options.
- 2. Choose option 6, **Class Table**, and press Enter. The following screen displays:

```
File View Help
    IBM Output Manager - Activity List
                                                    Row 1 of 11
Command ===>
                                                  SCROLL ===> PAGE
Line Commands: Select
                                     NOR DB2 NOR SEQ EXC DB2 EXC SEQ
CMD Activity
                                     Yes
___ Task Manager
                                           Yes
                                                  Yes
                                                         Yes
  Subtask Start
                                                  Yes
                                     Yes
                                           Yes
                                                         Yes
___ Command:
                                     Yes
                                           Yes
                                                  Yes
                                                         Yes
___ Status request
                                           Yes
                                                  Yes
                                                         Yes
 Rules service
                                     Yes
                                           Yes
                                                  Yes
___ Subsystem Start
                                     Yes
                                           Yes
                                                  Yes
                                                         Yes
___ Selector Start
                                     Yes
                                           Yes
                                                  Yes
                                                         Yes
 Archive JES Dataset
                                     Yes
                                           Yes
                                                  Yes
                                                         Yes
 Archive Query
                                     Yes
                                           Yes
                                                  Yes
                                                         Yes
___ View Archive
                                     Yes
                                           Yes
                                                  Yes
                                                         Yes
___ Pre Spool Intercept
                                     Yes
                                           Yes
                                                  Yes
                                                         Yes
```

Type **S** (Select) next to an activity and press Enter. The following screen displays:

```
------- IBM Output Manager - Class Table Entry Update -----+ ---
Command ===>
    Enter logging options and thresholds for:
            Task Manager
      Log normal events to:
        DB2 . . . . Yes
Sequential . Yes
                                    (Yes or No)
                                    (Yes or No)
      Log Exceptions to:
        DB2 . . . . . Yes (Yes or No)
Sequential . Yes (Yes or No)
      Quit logging events after:
        Normal. . . . 0 (Normal event threshold) Sequential. . 0 (Exception event threshold)
    Then Press END to save or CANCEL to abandon.
```

The screen above is the same one used for each of the activity classes listed on the Activity List screen (the previous screen).

Field Descriptions

The following fields are found on the Class Table Entry Update screen:

Field	Description
DB2	Type Yes or No to indicate whether you want the normal events and/or exceptions to be logged into a DB2 table.
Sequential	Type Yes or No indicate whether you want the normal events and/or exceptions to be saved to a sequential file.
Normal	Type a number between 1 and 9,999,999 to indicate the maximum number of normal events that can be logged. A value of 0 means that there is no limit.
Sequential	Type a number between 1 and 9,999,999 to indicate the maximum number of exceptional events that can be logged. A value of 0 means that there is no limit.

Product status

To view the status of Output Manager activity, select option Q, Product status, on the Administrative Functions screen (option A.Q from the Output Manager main menu). The following screen displays:

```
File Rules Processes Preferences Help
                           IBM Output Manager - Subsystem Status
Command ===> _
                                                                                           More:
System Level Section:
                                            DB2 Subsystem . . . . . : W71A
  Product Name . . . : BJTD
                                            DB2 Plan name . . . . . : BJTDPLAN STC Userid . . . . . : IBMUSER
  Started Task Name . . : BJTD
Statistics section:
  Active since . . . : 10/31/2002 - 21:35:08
  Pre spool attempts . : 0 (Number of attempts to capture jobs)
Pre spool captures . : 0 (Number of jobs captured)
Selector attempts . : 0 (Number of attempts to select jobs)
Selector jobs . . . : 0 (Number of jobs processed)
System Exceptions . : 0 (Number of system level exceptions)
Customer Exceptions . : 0 (Number of installation exceptions)
Selection criteria:
  Pre spool rules . . . : 0
Post spool rules . . : 0
                                                    (Number active, select RULES to view)
                                                    (Number active, select RULES to view)
   Custom report rules . : 0
                                                    (Number active, select RULES to view)
Active Processes:
                                                    (Number of archive processes)
  Archives . . . . . : 5
                                                    (Number of selector processes)
   Selectors . . . . . : 0
  Data base threads . . : 2
                                                    (Number of data base threads)
  Service processes . . : 1 Log threads . . . . : 1
                                                    (Number of service processes)
                                                    (Number of log threads)
```

You must Page Down to see more fields. They are all shown on the screen above for your reference.

Field descriptions

All of these fields are for your reference only. You cannot make entries in these fields.

Field	Description
System Level Section	1
Product Name	The name of the product instance on which Output Manager (the product) is running.
DB2 Subsystem	The DB2 subsystem on which the product is running.
DB2 Plan name	The name of the DB2 plan that the product uses.
Started Task Name	The name of the started task used to start Output Manager.
STC Userid	The user ID assigned to the started task.
Statistics section	
Active since	The date and time that the started task was started for Output Manager. The date is in the format MM/DD/YYYY. The time is in the format of HH:MM:SS.
Prespool attempts	The number of times an attempt was made to capture a SYSOUT job before it reached the spool (prespool).
Prespool captures	The number of times a prespool job was captured successfully.
Selector attempts	The number of times an attempt was made to capture a SYSOUT job after it reached the spool (post spool).
Selector jobs	The number of times a post-spool job was processed successfully.
System Exceptions	The number of system level exceptions that occurred since this task was started.
Customer Exceptions	The number of customer exceptions that occurred since the task was started.
Selection Criteria	
Pre spool rules	The number of active (enabled) rules used to identify which SYSOUT to capture before it goes to the spool.
Post spool rules	The number of active (enabled) rules used to identify which SYSOUT to capture when it is taken off the spool.
Custom report rules	The number of active (enabled) rules used to identify which SYSOUT to capture post-spool for a custom report.
Active Processes	
Archives	The number of archive processes completed since this task was started.
Selectors	The number of selector rules processed since this task was started.
Data base threads	The number of data base threads used since this task was started.
Service processes	The number of service processes used since this task was started.
Log threads	The number of log threads used since this task was started.

Chapter 7. Creating Reports

Output Manager offers the ability to define reports to represent all or a portion of a "captured" SYSOUT data set (archive). Using the various Output Manager report components, you can uniquely identify one or more pages of a SYSOUT data set, assign these pages to one or more reports, and optionally print these reports to a distribution list.

For example, imagine a large bank with multiple branches that normally generates a weekly report containing every transaction that occurred at all of the branches. This report could be hundreds or thousands of pages long. However, with Output Manager, you can create a report identifying certain pages as belonging to branch 123, other pages belonging to bank branch 456, and so on, effectively dividing this report into smaller reports unique to each branch. Now you can view and/or print the "Branch 123" report and see only the transactions that occurred at branch 123. Moreover, you can specify which individual or group of individuals should receive the printed "Branch 123" report.

This chapter presents the following topics to describe the components necessary to use Output Manager report options:

- Report types
- Report components
- Defining report components
- Capturing reports

Creating a custom report includes designing a report layout, defining conditions for breaking a report into smaller reports, and specifying a rule that indicates the specific job and captured SYSOUT that should be part of a custom report. These processes are also described in this chapter.

Report Types

Output Manager allows the definition of two reports types, basic and custom. A *basic* report includes all of the contents of an archive, while a *custom* report is usually a portion of an archive. These two report types are described in more detail in this section.

Basic Reports

A *basic* report identifies the complete contents of an archive. With basic reports, you essentially assign a report name to a captured archive. However, basic reports are limited in that you cannot instruct Output Manager to print and distribute a Basic report to select recipients during archive capture. The only time you can direct a Basic report to one or more distribution lists is while printing from the Output Manager screens for "Captured Reports" and "Archived Reports".

- To display the Captured Reports screen, choose option V.R (View Reports, Reports) from the Output Manager main menu.
- To display the Archived Reports screen, choose option V.A (View Reports, Archives) from the Output Manager main menu.

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To define a basic report, you only need to define a Report Selection Rule. To do this, select the Report Selection Rule option on the Administrative Functions menu (option A.R from the Output Manager main menu).

Custom Reports

A custom report can identify the complete contents or a portion of an archive. It essentially allows Output Manger to divide a single "physical" archive into one or more "logical" custom reports. You can view or print custom reports from the Output Manager screens for Captured Reports and Archived Reports.

- To display the Captured Reports screen, choose option V.R (View Reports, Reports) from the Output Manager main menu.
- To display the Archived Reports screen, choose option V.A (View Reports, Archives) from the Output Manager main menu.

Unlike basic reports, you can optionally direct custom reports to a distribution list in order to route printed reports to the appropriate recipients. In addition, for recipients in the distribution list that have indicated they wish to receive hardcopy, you can instruct Output Manager to identify and selectively print custom reports while it captures the archive (Real Time Print).

The minimum requirements for defining a custom report are:

- Report Layout (option A.L from the Output Manager main menu)
- Custom Report Definition (option A.C from the main menu)
- Report Selection Rule (option A.R from the main menu)

In addition, if you will be distributing a printed custom report, you will need to define the following components:

- Recipients (option A.J from the main menu)
- Distribution list containing recipients (option A.D from the main menu)

Report Components

Defining basic and custom reports involves adding or modifying at least one of the following components:

Component	Required for:	Description
Report Layout (option A.L)	Custom reports	Defines report pages, such as what fields appear where on a page.
Recipient IDs (option A.J)	Real Time printing of custom reports	Identifies individuals that can potentially be part of a distribution list.
Distribution List (option A.D)	Real Time printing of custom reports	Groups recipients into a named list and identifies those recipients that require hardcopy at archive capture time (Real Time printing).
Custom Report Definition (option A.C)	Custom reports	Specifies page conditions that must be met in order to assign a page to a report, and identifies the distribution list to be used for Real Time printing requests.
Report Selection Rule (option A.R)	Basic and custom reports	Identifies criteria used to select an archive for basic and custom report processing.

Although you can manipulate the components in any order, it is recommended that you define the components in the order they are presented in the above table. This provides the most efficient process for creating a report.

For example, if you chose to define a Custom Report Definition first, you would have to return to this definition later to add a report layout and a distribution list, after you have created them. You can create the components in that order, but it is less efficient.

Report Layout

A report layout acts as a map of a page. It identifies sections on a page by associating "names" with their position and size. A section's position is the row and column of the upper left hand corner of the section. Its *size* is the width and height of the section.

Each layout includes the following hierarchical definitions:

- 1. Page one or more pages in the layout
- Area one or more areas for each page
- 3. Field one or more fields for each area.

Page Definition

A page definition is an administrative component used for grouping, and has no geometrical positioning. However, you can use the page to group area and field definitions for different kinds of pages that might appear in the same SYSOUT represented by this layout.

Area Definition

An area definition defines a "rectangle" on a page. You provide the position of the rectangle by specifying the row and column of its upper left hand corner. You provide the *size* of the rectangle by specifying its width and height. An area rectangle can represent an entire page or a single line.

Field Definition

A field definition defines the position of an actual field on the page, relative to the area that contains the field. You provide the position of the field by specifying the row and column of its upper left hand corner, relative to the rectangle containing the field. You provide the *size* of the field by specifying its width and height.

Recipient

A recipient is a unique individual who needs to receive a printout of select custom reports. Recipient information can include identification and addressing information that will print along with the custom report to assist in its delivery.

Note: It is recommended that you include the TSO UserID as part of the recipient ID information. Otherwise, the recipient will not be able to invoke the Print line command for local printing.

When you create a recipient ID, you are creating a record in the recipient table that identifies a specific person. The only reference to entries in this table is through a distribution list maintained in the distribution list table. A single recipient entry can be referenced by multiple distribution lists. For example, recipient Julie Jones could be part of the Accounting distribution list and the Payroll distribution list.

Distribution list

A distribution list groups a collection of recipients into a single named object that can be referenced by one or more custom reports. For example, you may have a distribution list named Sales Reps. This list in turn would identify entries for Tom, George, Susan, and Heather. A recipient can be part of multiple distribution lists. Currently, the maximum number of recipients allowed in a single distribution list is 127.

A single custom report can reference only one distribution list. When defining a custom report, the distribution list name is what you include to direct the report to recipients. When you print a report, SYSOUT will be generated for all the recipients in the distribution list. However, it is important to note that there is really only one report on the JES spool, even if SDSF shows 27 SYSOUTs for 27 recipients. Do not be alarmed in thinking that there are 27 copies of a million-line report on the spool. There is only one copy with 27 destinations.

Note: A basic report does not have a distribution list because the only connection to the distribution list is through a custom report. Currently, to assign a distribution list to a basic report, you would need to define the custom report without any conditions, effectively causing the custom report to select the entire SYSOUT, just like a basic report.

Custom report definition

A custom report definition identifies the unique conditions that, when present, associate a page to a custom report. When defining a custom report, you specify sets of conditions using the field names defined in the layout.

Note: You can define a custom report without any conditions, in which case the custom report behaves like a basic report, except with the ability to route the report to a distribution list.

You specify "and" and "or" conditions by defining one or more field names, logical operators, and comparison values. When conditions are met, such as when the data at the field position successfully compares to the value specified in the custom report definition, the page is assigned to the custom report for processing.

Report selection rule

A report selection rule contains the selection criteria that must be met to identify an archive as a basic report, and makes that archive available for possible custom report processing.

Designing a report layout

The first step in creating a custom report is to design a *report layout* that shows how the original report looks as produced by the application. A layout is similar to a map that shows where data is placed on the page. In the layout, you need to define fields that will be used to associate pages containing these fields to a custom report.

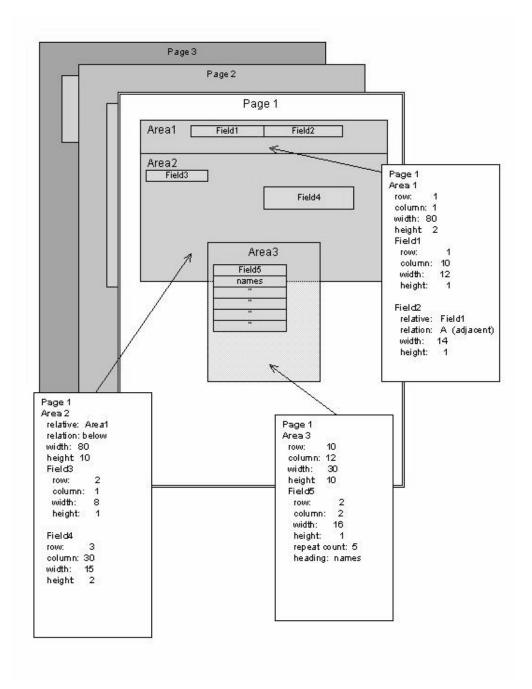
There are three sections that you can define for a layout: a page, one or more areas for that page, and one or more fields for each area.

Page - A page is the top level. You define a unique style for a page. You can also have more than one page if there are different styles in the same report (SYSOUT). For example, you might have a "letter" page that you use for form letters and an "invoice" page for the bill you send to customers.

- Area An area is the second level. Areas are like rectangles on a page that you define. For example, you could define Area 1 as the "title" area that contains the first two lines of the report and Area 2 as the "subtitle" area that contains the next two lines (3 and 4).
- Field A field is the last level. A "field" is a specific point in an area. For example, for Area 1 you could define a "Report ID" field that starts at line 2, column 80, while in Area 2 you define a "Branch Name" field that starts at line 4 in column 100, and a "Branch ID" field that starts in column 106.

You must familiarize yourself with the report (SYSOUT) so that you can properly establish position and size information for fields you define in the layout.

The following diagram shows a sample page layout with several areas and fields within areas. The diagram also illustrates how to specify related fields (Field1 and Field2) in an area, and related areas (Area1 and Area2) on the same page.



The next section describes how to define areas and fields on a page.

Using the Report Layout screen

To create a report layout, choose option L, **Report Layout**, on the Administrative Functions menu (option A.L from the Output Manager main menu). The screen you see next depends upon whether you have used the Report Layout screen before.

Setting preferences

The first time you choose the Report Layout option, you will be prompted to set preferences for using the Report Layout screen. The following screen displays:

```
+--- IBM Output Management Tool - Report layout Preferences ----+
                              Command ===> _
                                                     Enter your preferences below and then press {\tt ENTER} to save. Press CANCEL to leave as is.
                                                Dialog Exit . . . Prompt (Save, Prompt, Nosave)
Level Exit . . . Save_ (Save, Prompt, Nosave)
Delete Entry. . . . Prompt_ (Prompt, Noprompt)
                                                                                                                                                                                                  Press END to save or CANCEL to bypass % \left\{ \left( 1\right) \right\} =\left\{ \left( 1\right) \right\} =\left\{
```

Make entries in the fields, as described in the following table.

Option	Description
Dialog Exit	This is the top level of the exit process, taking you out of the dialog completely. Type one of the following values to indicate whether you want to save data to the DB2 table when you exit the dialog:
	Save - Always save the changes to disk.
	Prompt - Display a window asking if you want to save the changes to disk when you leave this session (default).
	No Save - Do not save any changes to disk.
Level Exit	Type one of the following values to indicate whether you want to save changes to this session:
	Save - Always save changes made during an edit session (default).
	Prompt - Display a window asking if you want to save the changes made during this edit session.
	No Save - Do not save changes made during an edit session.
	The Level Exit field does not save changes to the disk. That decision is not made until the dialog exit is invoked, and it is based on the preference you specify for the "Dialog Exit" field. Any changes made during this edit session are not applied until you exit the dialog completely.

Option	Description
Delete Entry	Type one of the following values to indicate what to do when a rule is chosen for deletion:
	Prompt - Display a window asking if you want to delete the rule (default).
	No Prompt - Delete the rule without asking for a confirmation.
	Deletions are not processed until you leave the dialog completely.

When you are done, press Enter then PF3 (End) to save your entries.

Accessing the layout screen

The following screen displays after you set preferences, the first time you choose the Report Layout option, or any time you use the I (insert) line command:

Note: If one or more layouts already exist, a list of layouts displays.

- If you enter E (edit) next to a specific layout name, you will see the information associated with that layout. Refer to "Viewing existing layouts" on page 119 for more information.
- If you want to create a new layout, type the I (insert) line command next to any layout name. The screen below will display.

```
File Preferences Help
           IBM Output Manager - Layout
                                                          Row 1 of 3
Command ===>
                                                          SCROLL ===> PAGE
Layout name . . . ___
Print control . . DCB____
                                          (DCB, ASA, Machine)
Line count ... 0
                                          (Number of lines per page)
Description . . . ____
Line Commands: Edit, Insert, Delete, Insert Area(IA), Insert Page(IP)
CMD Name
                                        Relative section Relative position
             Type
                     Page
                               Area
   Page 1
             Page
   Area 1
                     Page 1
    Field 1 Field Page 1
                              Area 1
            ************** Bottom of Data **********
```

The table below lists the fields you can modify on this screen:

Option	Description
Layout name	Type up to 24 characters to assign a name to this layout.

Option	Description
Print control	Indicate the type of printer control that will be used with this report layout:
	DCB - Use the spacing assigned to the report by the application. This is the default.
	ASA - Use ANSI-standard spacing.
	Machine - Use machine carriage control.
	For most applications, specifying DCB is sufficient. Only very special circumstances will require that you specify any other option.
Line count	Type a number between 1 and 999 to indicate how many lines you want to appear on each page. When specified, this value is used by Output Manager to determine page boundaries, instead of the print control character.
	A value of zero (0) means that you want the page boundaries controlled by the print control character, which is all that is needed for most applications,. However, this option can be used when no print control character exists in the report.
Description	Type up to 60 characters to describe this report layout.

When you have finished entering data in these fields, you can then begin the process of defining the layout. Use the line commands on the bottom half of the screen to display the screens for creating pages, areas, and fields.

Line commands for Layout screen

There are several line commands you can use on the bottom half of the Layout screen.

- E Change an existing section of the report layout.
- I Insert a new section to the layout.
- IA Add a new area to the layout.
- IP Add a new page to the layout.
- D Delete a specific section of the layout.

If you use one of the "insert" line commands, another screen displays where you can add more details to your layout. The specific screen that displays depends upon which insert command you use and which section of the layout you are on when you type the line command.

Creating a page

If you type IP (insert page) in the bottom half of the Layout screen, the following screen displays:

```
File Preferences Help
          IBM Output Manager - Layout Page
                                                        No rows to dis
                                         _____ SCROLL ===> PAGE
Command ===> ___
Layout name . . : IVP
Print control . : DCB
                                         (DCB, ASA, Machine)
Line count . . : 0
                                         (Number of lines per page)
Page name . . .
CMD Name
              Type Area Relative section Relative position Column
```

The only field you can modify on this screen is Page Name:

Option	Description
Page name	Type up to eight (8) characters for the name you want to assign to this page.

After you have typed a name for this page, press Enter, then PF3 (End) to exit this screen. The page name will display on the report layout screen, indicating that the page you just created is now part of the layout.

Creating an area

If you type IA (insert area) in the bottom half of the Layout screen, the following screen displays:

Note: This screen also displays if you type the I (insert) line command next to a page.

```
File Preferences Help
                                           No rows to dis
          IBM Output Manager - Layout Area
                                                     SCROLL ===> PAGE
Command ===>
Layout name . . : IVP
Page name . . . : Page 1
Area name . . . ___
Area row . . . . 0_ Area column . 0_ Relative area name . _
Area width . . . 0_ Area height . 0_ Relationship . . . . _
            Type Relative section Relative position Row Column Width
CMD Name
```

The table below lists the fields you can edit on the Layout Area screen:

Option	Description
Area name	(Required) Type up to eight (8) characters to assign a name to this area.
Area row	(Required) Type a number between 1 and 999 to indicate the starting row (upper left margin) of this area.
Area column	(Required) Type a number between 1 and 999 to indicate the column number where the area starts (the upper left corner).
Relative area name	Type up to eight (8) characters for the name of a previously defined area that you wish to use to assist in positioning this area. Otherwise, leave it blank.
	Note: If you type the name of an area in this field, be sure to make an entry in the Relationship field to indicate how the two areas are related. If you do not specify a Relationship type, the origin (row, column) of this area will be the same as that of the area you list in the Relative Area Name field.
Area width	(Required) Type a number between 1 and 999 to indicate the maximum width of the lines in the area. A value of zero (0) indicates that there is no limit to the width, except for the limit imposed by the page size.
Area height	(Required) Type a number between 1 and 999 to indicate the maximum number of lines required for this area. A value of zero (0) indicates that there is no limit to the height, except for the limit imposed by the page size.
Relationship	Type up to eight (8) characters to indicate how the "relative area name" is tied to the "area name." If you are uncertain, leave this field blank. Valid relationships include:
	A - adjacent, meaning the same row as the related area, but the next (adjacent) column
	B - below, meaning the first row after the related area
	D - diagonal, meaning the next row and next column as the related area.
	If you specify a Relative Area Name and a Relationship, the origin is the upper-left hand corner of the area named in the relationship. For example, if you have AREA1 defined at Row 1, Column 1, with a height of 2, and you specify AREA2 "below" AREA1, then AREA2 is effectively defined at Row 3, Column 1. The adjacent and diagonal relationships work in a similar manner, except that the relative position (row, column) will be different. In each case, the new area starts beyond the boundaries of the related area.
	If you do not specify a relationship, the origin of AREA2 will be the same as that of AREA1, which in the example above is Row 1, Column 1.
	The purpose of the Relative Area Name and Relationship fields is to provide a short cut for defining a area/field position. If you have a series of areas or fields that can be defined using these relationships, you do not have to specify as much information for each area/field definition.

Note: You must define the size of the area (row, column, width, and height) to be able to assign a field to an area. Otherwise, the area will default to a position and size that encompasses the entire page.

When you are done, press Enter, then PF3 (End) to exit this screen. The area name will display on the report layout screen under the page name that is associated with this area. The area you created is now part of the layout.

Creating a field

There are two ways to create a new field for an area:

- Type I (Insert) next to an area name listed in the bottom half of the Layout screen. Another screen displays where you can make entries to define a new field for this
- Type I (Insert) next to a field name listed in the bottom half of the Layout screen. Another screen displays where you can make entries to define a new field for this area. The new field is associated with the same area as the original field.

The Layout Field screen displays when you insert or edit a field.

```
File Preferences Help
                    IBM Output Manager - Layout Field
                                                 SCROLL ===> _
Command ===>
Layout name . . : IVP
Page name . . . : Page 1
Area name . . . : Area 1
Area row . . . : 0
                      Area column : 0
                                            Relative area name :
Area width . . : 0
                    Area height : 0
                                             Relationship . . . :
Field information
 Name . . . . . . . . . . . . _ _
  Relative field name . . . . __
  Relative field relationship .
                                           (Diagonal, Below, Adjacent)
 Starting row . . . . . . . 0
  Starting column . . . . . . 0
 Width . . . . . . . . . . . 0__
 Height . . . . . . . . . . 0__
 Number of times to repeat . . 0
  Constant data at position . . No
                                           (No, Yes)
 Heading name . . . . . . .
```

The Area fields at the top of the Layout Field screen cannot be modified. However, you can make entries in the fields listed under the "Field Information" heading.

Option	Description
Name	Type up to eight (8) characters to assign a name to this field.
Relative field name	Type up to eight (8) characters for the name of a previously defined field that you wish to use to assist in positioning this field.
Relative field relationship	Indicate where the relative field is located in comparison to the primary field. Valid entries are:
	A - adjacent, meaning "next to"
	B - below
	• D - diagonal
Starting row	Type a number between 1 and 999 to indicate the row where this field starts.
Starting column	Type a number between 1 and 999 to indicate the column number where this field starts.
Width	Type a number between 1 and 999 to indicate the maximum width of the field. A value of zero (0) indicates that there is no limit to the length, except for the limit imposed by the Area.
Height	Type a number between 1 and 999 to indicate the maximum number of lines required for this field. A value of zero (0) indicates that there is no limit to the number of lines, except for the limit imposed by the Area.
Number of times to repeat	Type a number between 0 and 999 to indicate how many times this field should be repeated in the layout.
Constant data at position	Indicate with Y/N whether there is "constant" data, which is data that will not move or change, associated with this field.
Heading name	Type up to seven characters for a heading for this field.

Viewing existing layouts

To view an existing report layout, choose option L, Report Layouts, on the Administrative Functions screen (option A.L from the Output Manager main menu), and press Enter.

Note: If no layouts exist, you will be prompted to either create a new layout or cancel.

The following example shows what the screen looks like if layouts already exist:

```
File Preferences Help
           IBM Output Manager - Layouts
                                                               Row 1 of 1
Command ===>
                                                             SCROLL ===> PAGE
Line Commands: Edit, Insert, Delete, Select
                   Print Control Line Count
                               DCB
                                                      0
     LAYOUT_L0000002
                               DCB
                                                      0
     LAYOUT_L0000003
                               DCB
                                                      0
     LAYOUT L0000004
                               DCB
     LAYOUT_L0000005
LAYOUT_L0000006
                               DCB
                                                      0
                               DCB
     LAYOUT_L0000007
                               DCB
     LAY0UT_L0000008
                               DCB
                                                      0
     LAYOUT L0000009
                               DCB
     LAYOUT_L0000010
                               DCB
     LAYOUT_L0000011
                               DCB
                                                      n
     LAYOUT L0000012
                               DCB
     LAYOUT_L0000013
                               DCB
     LAYOUT_L0000014
                               DCB
                                                      0
     LAYOUT_L0000015
                               DCB
                                                      0
     LAYOUT_L0000016
                               DCB
                                                      0
```

The following read-only fields are on the Layouts screen:

Option	Description
Name	The name of this report layout.
Print control	The type of printer control that will be used with this report layout:
	DCB - Use the spacing assigned to the report by the application.
	ASA - Use ANSI-standard spacing.
	Machine - Use machine carriage control.
Line count	The number of lines that are allowed for each page.
Description	The description of this report layout. You must Page Right (F11) to view this field.

Line Commands for selection screen

There are several line commands you can use to select a layout. These commands are:

- **D** Delete this report layout.
- **E** Edit this report layout.
- I Insert a new report layout.
- **S** Select this layout for viewing.

Deleting a layout

If you type the D (delete) line command next to a layout, you will be asked to confirm this deletion. The following window displays:

```
File Preferences Help
 Command ===>
  Ready to delete report layout.
  Press ENTER to delete
    or CANCEL to keep.
```

Press Enter if you want to delete this layout. Otherwise, type CANCEL to keep the layout.

Edit or select a report layout

If you enter E (edit) or S (select) next to a specific layout name, you will see the information associated with that layout. An example is shown below:

```
File Preferences Help
         IBM Output Manager - Layout
                                                 Row 1 of 5
                                               __ SCROLL ===> PAGE
Command ===> _
Layout name . . . IVP
Print control . . DCB
                                  (DCB, ASA, Machine)
Line count ... 0
                                    (Number of lines per page)
Description . . . Sample bank report
Line Commands: Edit, Insert, Delete, Insert Area(IA), Insert Page(IP)
CMD Name
                         Area Relative section Relative position
           Type
                  Page
           Page
    Page 1
    Area 1
            Area
                  Page 1
    header
          Field Page 1 Area 1
    branchhd Field Page 1 Area 1
    branchid Field Page 1 Area 1
```

You can then edit or add to this layout using the line commands listed on the screen. Refer to "Line commands for Layout screen" on page 115 for more information.

Insert a new layout

If you type I (insert) next to a layout name, the following screen displays, which you can modify to create a layout:

```
File Preferences Help
        IBM Output Manager - Layouts
Command ===>
                 SCROLL ===> PAGE
Layout name . . .
                                (DCB, ASA, Machine)
Print control . . DCB
Line count ... 0
                                (Number of lines per page)
Description . . .
Line Commands: Edit, Insert, Delete, Insert Area(IA), Insert Page(IP)
CMD Name
                      Area
                               Relative section Relative position
                Page
  Page 1 Page
  Area 1 Area Page 1
___ Field 1 Field Page 1
```

For more information on what to enter in the fields, refer to "Accessing the layout screen" on page 114.

Capturing reports

The process of capturing reports is essentially recording positioning data to reflect the location of pages that contain data assigned to a specific report. For basic reports, this is the complete archive. For custom reports, information can represent the entire archive or a subset of pages in the archive.

All attempts to access reports (View or Print) involve using this "positioning" data against the archive to present a logical report. Although you may have a basic report and 30 custom reports defined against a single archive, the only permanent space allocation is that of the archive itself.

Creating a Custom Report Definition

The first time you choose option C, Custom Reports, on the Administrative Functions menu (A.C from the Output Manager main menu), a window displays asking if you want to create a custom report. If you press Enter to continue, the following screen displays:

```
File Links Preferences Help
           IBM Output Manager - Report
                                                   No rows to dis
                  SCROLL ===> PAGE
Command ===> _
Report name . . . _____
Contiguous . . . Yes
                                   (Yes or No)
Description . . . _
Layout ...:
Distribution .:
Line Commands: Edit, Insert, Delete
   Connector Field Condition Value
```

Note: You also see this screen if you use the I (insert) line command on the Custom Reports screen.

The table below describes the first five fields on this screen:

Option	Description
Report name	Type up to 24 characters for the name of the custom report.
Contiguous	Indicate whether the report pages can be viewed consecutively (Yes) or whether the pages are scattered throughout the report (No).
Description	Type up to 60 characters to describe this custom report.
Layout	When a layout is assigned to this report through the Links menu at the top of the screen, the name of the layout displays in this field.
Distribution	When a distribution list is assigned to this report through the Links menu at the top of the screen, the name of the distribution list displays in this field.

Specifying field-condition-value

Next, you must specify the conditions that must be true to create this custom report. This is referred to as the *custom report definition*. You do this by typing the name of a field from the report layout, an operand, and a value. For example, if the field LOCATION is equal to (EQ) the value of SPRINGFIELD, then generate this custom report. Only fields that were defined in the report layout can be used in the custom report definition.

To enter values for field conditions, type **ADD** in the Command line and press Enter. The following screen displays:

	IBM Output Manager -	Report	No rows to dis
Comman	d ===> ADD		SCROLL ===> PAGE
Report	name Bank report#1		
Contig	uous YES	(Yes or No)	
Descri	ption Bottom line tota	1	
Layout	: Monthly report		
	+ Rep	ort Condition Entry	+
Line CMD	Command ===>		
	Field Condition BRANCHID EQ BRANCH EQ	Value 123_ Peoria_	
	TOTAL GT	0	

Logically, the custom report is made up of "n" entries identifying which fields from the report layout should contain what values in order for this page to qualify as part of this custom report. The condition is how it qualifies, such as equal to (EQ), greater than (GT), and so on.

Note: Only the fields that have been defined in the report layout associated with this custom report can be used on this screen. Do not specify fields on this screen if you have not defined them in the report layout.

The table below describes what to enter in these fields:

Option	Description
Connector	This field indicates "and" or "or" as the connector for this field to another field.
Field	Type up to 8 characters for the name of the field in the report.
Condition	Type one of the following qualifiers:
	EQ - equal to
	GT - greater than
	GE - greater than or equal to
	LT - less than
	LE - less than or equal to
	NE - not equal to
Value	Type up to 40 characters for the value associated with this field.

In this pop-up window, you can enter up to eight (8) lines of field/condition/value entries. Each line in the group of eight lines is considered to be connected to the other lines in the group with an "and" connector. If you then use the (I)nsert line command to add more fields, the first group of fields is connected to the second set of fields with an "or" connector.

Look at the following example.

```
----- Report Condition Entry -----
Command ===>
     Field Condition Value
     BRANCHNM EQ
BRANCHID EQ
                     BRANCH
                     CHERRY
```

On this screen, there are two entries defined for this group. The first entry shows that field BRANCHNM must be equal to BRANCH. The second entry shows that the field BRANCHID must be equal to CHERRY. These two entries are connected with an implied "and", so that both entries must be true for this page to be part of the report.

Now, let's assume you added two more entries in a different group, as shown below:

```
----- Report Condition Entry -----
Command ===>
    Field Condition Value
    BRANCHID EQ
                  BRANCH
                  WOOD
```

In the second group, the first entry shows field BRANCHNM must be equal to BRANCH and the BRANCHID must be equal to WOOD in order for this page to be part of the report.

After making and saving all four of these entries, the Custom Report screen would look like this:

```
File Links Preferences Help
              IBM Output Manager - Report
                                                Row 1 of 4
                                                SCROLL ===> PAGE
Command ===>
Report name . . . Bank - report #1
Contiguous . . . Yes
                                  (Yes or No)
Description . . . Monthly report
Layout ...:
Distribution .:
Line Commands: Edit, Insert, Delete
    Connector Field
                     Condition Value
             BRANCHNM EQ
                              BRANCH
                              CHERRY
      and
             BRANCHID EQ
      or
             BRANCHNM EQ
                              BRANCH
             BRANCHID EQ
                              WOOD
      and
| Entry saved |
```

Notice that the first two fields are connected with an "and", while the last two fields are connected with an "and". What connects the first set of fields to the second set of fields is an "or". This indicates that if BRANCHNM=BRANCH and BRANCHID=CHERRY OR if BRANCHNM=BRANCH and BRANCHID=WOOD, this page is part of the report.

Line Commands

You can modify the field information using the following line commands:

- E Edit. Displays existing field information for you to change as needed.
- I Insert. Displays blank fields so you can add new field information.
- **D** Delete. Displays a prompt to ensure you want to delete this field information.

Combining a layout, report, and distribution list

To generate a custom report, you must associate a report layout with a specific custom report, and a custom report with a specific report selection rule.

Tie a report to a layout

To use the custom report, you must associate this report with a specific report layout. To do this, follow these steps:

1. Choose option C, Custom Reports, on the Administrative Functions menu (option A.C from the Output Manager main menu).

2. Type **E** (Edit) next to a custom report. An example of a custom report is shown below.

```
File Links Preferences Help
         IBM Output Manager - Report
                                              Row 1 of 3
Command ===>
                                              SCROLL ===> PAGE
Report name . . . Ash
Contiguous . . . Yes
                               (Yes or No)
Description . . . Ash Branch
Layout . . . :
Distribution .:
Line Commands: Edit, Insert, Delete
CMD Connector Field Condition Value
                            Tree House Bank Confidential
            header EQ
     and branchhd EQ
                            Branch
            branchid EQ
                            Ash
```

3. Place the cursor on the "L" in the **Links** pull-down menu at the top of the screen, and press Enter. The following menu displays:

```
File Links Preferences Help
    1. Choose a Layout
                                   Row 1 of 3
     2. Choose a Distribution List
                                  SCROLL ===> PAGE
     Edit the Layout
    4. Edit the Distribution List
             (Yes or No)
Description . . . Ash Branch
Layout ...:
Distribution . :
Line Commands: Edit, Insert, Delete
```

Type 1 to select Choose a Layout, and press Enter. Another screen displays that contains a list of report layouts.

```
-- IBM Output Manager - Layout Selection ------
Command ===>
                                                   SCROLL ===> PAGE
line cmds: Select, Add, View, Edit, Delete
CMD Name
    doc test
    ivp testing
    weekly
     IVP
     LAYOUT L0000003
     LAYOUT_L0000004
     LAYOUT_L0000005
     LAYOUT_L0000006
```

Type **S** (Select) next to a report layout and press Enter. The "S" is replaced with a slash (/). Press PF3 (End) to return to the Report screen. The Layout field on this screen now displays the name of the report layout that you selected. This indicates that the layout is now tied to the custom report.

Tie a report layout to a report selection rule

Instructions for tying a report selection rule and a report layout are described in "Assigning a layout to the report rule" on page 134.

Tie a report to a distribution list

The next step in designing a custom report is determining who should receive the custom report. You can choose recipients from a list. To do this, follow these steps:

- Choose option C, Custom Reports, on the Administrative Functions menu (option A.C from the Output Manager main menu).
- Type **E** (Edit) next to a custom report. An example of a custom report is shown below.

```
File Links Preferences Help
          IBM Output Manager - Report
                                                  Row 1 of 3
Command ===>
                                                SCROLL ===> PAGE
Report name . . . Ash
Contiguous . . . Yes
                                 (Yes or No)
Description . . . Ash Branch
Layout ...: IVP
Distribution .:
Line Commands: Edit, Insert, Delete
   Connector Field
                     Condition Value
                             Tree House Bank Confidential
             header
                     EQ
                             Branch
      and
             branchhd EQ
             branchid EQ
                             Ash
```

3. Place the cursor on the "L" in the **Links** pull-down menu at the top of the screen, and press Enter. The following menu displays:

```
File Links Preferences Help
       1. Choose a Layout
                                                Row 1 of 3
       2. Choose a Distribution List
                                                SCROLL ===> PAGE
       3. Edit the Layout
       4. Edit the Distribution List
                                  (Yes or No)
Description . . . Ash Branch
Layout . . . : IVP
Distribution .:
Line Commands: Edit, Insert, Delete
CMD Connector Field Condition Value
            header EQ
                             Tree House Bank Confidential
             branchhd EQ
                             Branch
```

Type **2** to select **Choose a Distribution List**, and press Enter. Another screen displays that contains distribution lists.

ommand ===>		SCROLL ===> PAGE	
line cmds: Select, Inse	ert, Edit, Delete		
MD Description Local employees Remote employees Test Lab Chicago employees Bank Branch Ash emp	oloyees	******	

Type **S** (Select) next to a distribution list and press Enter. The "S" is replaced with a slash (/). Press PF3 (End) to return to the Report screen. The Distribution field on this screen now displays the name of the distribution list that you selected.

For more information on creating recipient IDs and distribution lists, refer to "Maintaining recipient IDs" on page 77 and to "Maintaining distribution lists" on page 83.

Report Selection Rules

Report Selection Rules establish a selection criterion that determines whether an archive is a candidate for Basic or Custom report processing. The existence of a Report Selection Rule is sufficient to create a Basic report from an archive. However, to create Custom reports from an archive, the Report Selection Rule, and any associated Custom Report Definitions must contain a layout that sufficiently maps the pages in the archive.

To use or create Report Selection rules, choose option **R** on the Administrative Functions menu (option A.R from the Output Manager main menu). When you create a report selection rule for the first time or by using the I (insert) line command, the following screen displays:

File	
IBM Output Manage	er - Report Rules
ommand ===>	
Control fields	
Status Enabled_	(Enabled or Disabled)
Layout Name .:	
Job Selection criteria	
Report Name	. <u></u>
Job Name	
Proc Name	
Step Name	
Proc Step	
Step Number	
Program	(from the EXEC PGM= in the JCL)
DD Name	

The table below lists the fields you can modify on this screen. You must specify a job name and DD name, and at least one of the following fields:

- Proc Name
- Step Name
- Proc Step
- Step Number

Option	Description
Status	Indicate whether this rule is active (enabled) or inactive (disabled).
Layout Name	(Display only) This field remains blank until you create a layout and link it to this report rule. For instructions, refer to "Assigning a layout to the report rule" on page 134.
Report Name	Type up to 24 characters for a report name. This is a required field.
Job Name	Type up to eight (8) characters for the job name of the job that is associated with this report. This is a required field.
Proc Name	Type up to eight (8) characters for the name of the procedure that is associated with this report.
Step Name	Type up to eight (8) characters for the name of the step in the job that is associated with this report.

Option	Description
Proc Step	Type up to eight (8) characters for the name of the step in the procedure that is associated with this report.
Step Number	Type up to eight (8) characters for the number of the step that is associated with this report.
Program	Type up to eight (8) characters for the name of the program that is specified in the EXEC PGM= statement in the JCL.
DD Name	Type up to eight (8) characters for the name of the DD statement that is associated with this report. This is a required field.

When you have finished entering data in these fields, press Enter to save your entries. The List of Report Rules screen displays and your new rule should appear in the list on this screen. Page right to see more columns. An example is shown below:

```
File View Preferences Help
   IBM Output Manager - List of Report Rules
                                           Row 1 of 3
Command ===>
                                        ___ SCROLL ===> PAGE
Line commands: Edit, Insert, Delete, Prompt, Link
CMD Status Disposition Exists Line Limit Capture Combine Insert
____ Disabled Keep
                 Replace
                               0 No
____ Enabled Delete Replace
____ Enabled Delete Replace
                         0 No
                                        No
```

Line commands for Rules screen

The following line commands are available on the List of Report Rules screen:

- **E** Edit an existing report selection rule.
- I Insert a new report selection rule.
- **D** Delete an existing report selection rule.
- **P** Tie a rule to an existing report layout.
- L Link (jump) to the layout assigned to this rule.

Editing a rule

When you type the E (edit) line command next to a rule on the List of Report Rules screen, and press Enter, the Report Rules screen displays the information already associated with this rule. A sample screen is shown below.

```
File
            IBM Output Manager - Report Rules
Command ===> _
 Control fields
   Status . . . Enabled (Enabled or Disabled)
   Layout Name . : IVP
 Job Selection criteria
   Report Name . . Bank report_
   Job Name. . . BJTBANKR
   Proc Name . . . ___
   Step Name . . . PRINT___
   Proc Step . . . _____
   Step Number . . _____
   Program . . . . \_ (from the EXEC PGM= in the JCL)
   DD Name . . . SYSUT2
```

You can make changes to the Status field and to the fields listed under Job Selection Criteria. For more information on these fields, refer to "Report Selection Rules" on page 130.

Inserting a rule

When you type the I (Insert) line command next to a rule on the List of Report Rules screen, and press Enter, a "blank" Report Rules screen displays. A sample screen is shown below.

```
File
            IBM Output Manager - Report Rules
Command ===> _
 Control fields
   Status . . . Enabled (Enabled or Disabled)
   Layout Name . :
 Job Selection criteria
   Report Name . . _____
   Job Name. . . . ____
   Proc Name . . . __
   Step Name . . . __
   Proc Step . . . ____
   Step Number . . ___
   Program . . . . _____ (from the EXEC PGM= in the JCL)
   DD Name . . . ____
```

You can create a new rule by entering information in the Job Selection criteria fields. For more information on these fields, refer to "Report Selection Rules" on page 130.

Deleting a rule

When you type the D (Delete) line command next to a rule on the List of Report Rules screen, and press Enter, the rule is deleted.

Assigning a layout to the report rule

To assign a layout to the report rule, type the P (Prompt) line command next to a rule and press Enter. The Layout Selection screen displays. An example is shown below:

```
------ IBM Output Manager - Layout Selection ------+
                      SCROLL ===> PAGE
Command ===>
line cmds: Select, Add, View, Edit, Delete
CMD Name
    doc test
    ivp testing
    IVP
    LAYOUT_L0000003
    LAYOUT_L0000004
    LAYOUT_L0000005
    LAYOUT_L0000006
    LAYOUT_L0000007
    LAYOUT_L0000008
    LAYOUT L0000009
    LAYOUT_L0000010
    LAYOUT_L0000011
    LAYOUT_L0000012
LAYOUT_L0000013
```

Follow these steps:

- Type **S** (Select) next to the layout you want to associate with this rule, and press Enter. The "S" changes to a slash (/) to indicate that the layout was selected.
- 2. Press PF3 (End) to continue. The List of Report Rules screen displays again, where you can Page Right to verify that the layout was tied to the rule.
- Press PF3 (End) to leave this screen, then press Enter to save the rule.

Displaying an assigned layout

Once you have associated a report layout to the report selection rule, you can then use the L (Link) line command to quickly jump from the rule to the layout. For example, if the WEEKLY TEST rule is associated with the TEST DATA layout, typing an "L" next to the WEEKLY TEST rule causes the TESTDATA layout to display. You can then view the layout or make changes to it as needed.

Note: If you have not selected a layout for the report selection rule prior to using the L (Link) line command, a blank Layout screen displays. You can then create a new layout or specify the name of an existing layout to associate with this rule.

Appendix A. Messages

All messages generated by Output Manager are described in this appendix. Variables are shown in *italics*.

BJTM000A Started task is not active. Reason Code=reason

Explanation: Where reason code =

- 1 No product instance has ever been active.
- 2 Internal error, name token footprint is bad.
- 3 Internal error, no parm pointer.
- 4 Internal error, bad parm pointer
- 5 This product instance has never been active.
- 6 This product instance is not currently active.

In terms of the system action, the requested function is not entered.

User Response: Report the problem to your product administrator.

Administrator: For reason codes 1, 5, and 6, request that the product instance, &BJTPROD, be started. For reasons 2, 3, and 4, report the problem to IBM Technical Support.

BJTM000B Truncation error on panel panel name, in program module name

Explanation: There is a problem with this panel. It will not display correctly.

User Response: Make a note of the panel name and program name (module name), then contact IBM Technical Support for assistance.

BJTM000C Severe error on panel panel name, in program module name

Explanation: There is a problem with the panel listed in the message.

User Response: Make a note of the panel and program name (module name), then contact IBM Technical Support for assistance.

BJTM000D Critical error on panel panel name, in program module name, rc=return code

Explanation: There is a problem with the panel listed in the message.

User Response: Make a note of the panel name, program name (module name), and return code. Contact IBM Technical Support for assistance.

BJTM000E Invalid command. Command is not a valid command

Explanation: The command you entered does not work on this screen.

User Response: If you were trying to use a line command, check to see if you typed it in the correct field (Cmd). Otherwise, use a different command

BJTM000F Bad product ptr. Bad product pointer passed to module name

Explanation: This message requires further investigation.

User Response: Make a note of the module name listed in the message, then contact IBM Technical Support for assistance.

BJTM000G Bad parm ptr. Bad parameter pointer passed to module name

Explanation: This message requires further investigation.

User Response: Make a note of the module name listed in the message, then contact IBM Technical Support for assistance.

BJTM000H Invalid option. Internal error, invalid option passed to module name

Explanation: The option you specified does not work for this part of the program, and an internal error occurred.

User Response: Make a note of the module name listed in the message, then contact IBM Technical Support for assistance.

BJTM000I Storage exhausted. Storage exhausted in module module name, rc=return code, occ=reason code

Explanation: A problem occurred while attempting to store an archive.

User Response: Make a note of the module name, return code, and reason code, then contact IBM Technical Support for assistance.

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BJTM000J Invalid Command. Command is invalid. Please select a menu option.

Explanation: The command you typed does not work on this screen.

User Response: Choose one of the menu options listed on the screen.

BITM000K Internal error. Command processing set option from command.

Explanation: An internal error occurred that requires further investigation.

User Response: Make a note of the problem and command listed in the message, then contact IBM Technical Support for assistance.

BJTM000L Request canceled by user.

Explanation: You cancelled this process.

User Response: None required.

BITM000M Error in program program name attempting to display panel panel name, rc=reason code.

Explanation: An error occurred while Output Manager was trying to display a specific panel. This error requires further investigation.

User Response: Refer to the program or module name, the panel (screen) name, and the reason code for details on why this error occurred. Contact IBM Technical Support for assistance.

BJTM050A Get control failed rc=return code, rs=reason

Explanation: This is an error that requires further investigation.

User Response: Make a note of the return and reason codes listed in the message, then contact IBM Technical Support for assistance.

BJTM050B IBM Output Manager is available. Last verified on date on system system Started task was task name, product name was product name. This verification occurred at date on system, system name. Started task is task name, product

Explanation: This message displays when you choose the Installation Verification option on the Output Manager main menu and the installation of Output Manager was successful.

name is product name.

User Response: None required.

BITM050C Update control failed, rc=return code, rs=reason.

Explanation: An error occurred while performing an update.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM060A Invalid condition specified in the Condition column.

Explanation: The only valid entries for the Condition field are EQ (equal to), GT (greater than), GE (greater than or equal to), LT (less than), LE (less than or equal to), and NE (not equal to). Do not use symbols in this field, such as =, <, or >, but only the two-letter codes listed above.

User Response: Type a different entry for the Condition

field.

BJTM150A Archive query failure. Return code= rc, Reason code=rs.

Explanation: An attempt to query the archive failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM150B No archives found that match the requested criteria.

Explanation: None

User Response: Type different criteria.

BJTM150C Archive invalid. Internal error footprint mismatch.

Explanation: This problem requires further investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM150D No results found that match the requested criteria.

Explanation: None

User Response: Type different criteria.

BJTM150E Storage exhausted for archive linklist rc=return code.

Explanation: A storage problem occurred, which requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM150F Storage exhausted for archive linklist, rc=return code, rs=reason code

Explanation: A storage problem occurred that requires further investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM150G Storage exhausted for view linklist rc=return code.

Explanation: A storage problem occurred that requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM150H Invalid view option, only Job, Step, Stats, or All allowed.

Explanation: You can change the view on this screen so that the information you want to display appears on this screen. However, you must type one of the options listed in the message.

User Response: Type either Job, Step, Stats, or All.

BJTM150I Invalid line cmd, only B (Browse) or V (View) are allowed.

Explanation: You typed a line command that does not work on this screen.

User Response: Type either B for Browse or V for View.

BJTM150J Invalid search option. Only Jobname, migrated, sysout, or generic allowed

Explanation: The search option you typed will not work on this screen.

User Response: Type one of the options listed in the message.

BJTM150K Request cancelled

Explanation: None

User Response: None required.

BJTM150L Invalid preference opt, only Initial or Save allowed

Explanation: In setting up your preferences, you typed a value that is not accepted on this screen.

User Response: Type only Initial or Save for this preference option.

BJTM150M Preference saved in profile dataset

Explanation: Your preferences have been saved.

User Response: None required.

BJTM150N Invalid print option only Override or Attr allowed

Explanation: You typed a value that is not accepted for this print option.

User Response: Type either Override, which allows you to make a "this time only" change in the distribution list, or Attr to view printer attributes.

BJTM150O Invalid search option, only Jobname, Migrated, Sysout, Generic, or All allowed

Explanation: You cannot perform a search using the option you entered.

User Response: Type one of the values listed in the message to perform a search.

BJTM150P Print service failed for data set name, rc= return code, rs = reason.

Explanation: The archive data set did not print.

User Response: Make a note of the data set name, return code, and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM150Q Archive queued for printing, dsn=data set name

Explanation: The data set containing the archive is in the print queue.

User Response: None required.

BJTM150R Free failed

Explanation: This requires further investigation.

User Response: Contact IBM Technical Support for assistance.

BJTM150S Attempt to free output descriptors failed, rc=return code, rs=reason code

Explanation: This requires further investigation.

User Response: Contact IBM Technical Support for assistance.

BJTM150T Unable to complete print request due

to output descriptor allocation failure,

rc=return code, rs=reason code

Explanation: This requires further investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM160A No parameter passed to BJTUARCV.

Explanation: A parameter was expected, but not

provided.

User Response: Contact IBM Technical Support for

assistance.

BJTM160B Invalid parameter passed to

BJTUARCV.

Explanation: None

User Response: Contact IBM Technical Support for

assistance.

BJTM160C Allocation failed.

Explanation: None

User Response: Contact IBM Technical Support for

assistance.

BJTM160D LMMINIT failed.

Explanation: None

User Response: Contact IBM Technical Support for

assistance.

BJTM160E View failed.

Explanation: The view you requested could not be

processed.

User Response: Contact IBM Technical Support for

assistance.

BJTM160F FREE failed. Unable to free dataset

rc=return code, rs=reason code.

Explanation: This problem requires further

investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM160G Report viewed. Successfully viewed

report.

Explanation: None

User Response: None required.

BITM160H LMFREE failed

Explanation: None

User Response: Contact IBM Technical Support for

assistance.

BJTMH160I Invalid option passed to BJTUARCV

Explanation: An option was selected and passed that does not relate to this part of the program, resulting in an

erro

User Response: Contact IBM Technical Support for

assistance.

BJTM160J Open failed

Explanation: None

User Response: Contact IBM Technical Support for

assistance.

BJTM160K Read failed by product, rc=return code,

rs=reason

Explanation: An attempt to read failed, which requires

further investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM160L Close failed for DDname, rc=return

code, rs=reason

Explanation: A close process failed for the specific DD

card listed in the message.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM160M Attributes failure, rc=return code,

rs=reason

Explanation: There is a problem with the attributes that

are assigned, causing a failure.

User Response: Make a note of the return code and

reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM160N Attribute not found. Archive attribute

not on file.

Explanation: The archive attribute listed in the message

could not be found.

User Response: Try assigning a different archive attribute to the rule.

BJTM160P Temp alloc failed, rc=return code, rs=reason

Explanation: A failure occurred during allocation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM160Q Open failed of temporary file, rc=return code, rs=reason

Explanation: None

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM160R Archive failure, rc=return code, rs=reason

Explanation: None

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM160S Archive not found, row row name was not found.

Explanation: None

User Response: Make a note of the row listed in the message, then contact IBM Technical Support for assistance.

BJTM160T Point failed, rc=return code, rs=reason

Explanation: The program attempted to point to a module, but was unsuccessful.

User Response: Refer to the return code and reason code listed in the message for more details on why it failed. Contact Technical Support if you need assistance.

BJTM180A Selection failed. rc = return code, rs = reason

Explanation: A failure occurred during a selection process.

User Response: Refer to the return code and reason code in the message for more information. Contact IBM Technical Support for assistance.

BJTM180B Before/After Error. Only one before or after line command allowed.

Explanation: Cannot use two Before or After line commands.

User Response: Specify only one Before or After line command.

BJTM180C Copy error. Program hit unknown state

Explanation: An error occurred during a Copy process.

User Response: Contact IBM Technical Support for assistance.

BJTM180D No rules found that match selection criteria

Explanation: None

User Response: Enter different selection criteria.

BJTM180E Selection rules saved.

Explanation: None

User Response: None required.

BJTM180F Copy error, only 1 entry can be copied at a time

Explanation: A copy error occurred because more than one entry was selected.

User Response: Choose one entry to copy.

BJTM180G Move error, only 1 entry can be moved at a time.

Explanation: A move error occurred because more than one entry was selected.

User Response: Choose one entry to move.

BJTM180H Update service failed. rc=return code, rs = reason

Explanation: An attempt to update data failed.

User Response: Refer to the return code and reason code for more information. Contact IBM Technical Support for assistance.

BJTM180I COPY PENDING. You must select both a copy point and a paste point.

Explanation: You have indicated that you want to use the Copy command, but have not selected the data you want to copy.

User Response: Select a Copy point and a Paste point so the Copy process can be done.

BITM180I Paste Error. Cannot use BOTH Before and After

Explanation: An error occurred while attempting to use the Paste command, because both Before and After were specified.

User Response: Specify either Before or After, but not both, and try the paste process again.

BJTM180K Invalid Line Command. That command is not supported.

Explanation: The line command you entered is not valid on this screen.

User Response: Try a different line command.

BJTM180L Bad select ID. Internal error footprint mismatch.

Explanation: This error requires further investigation.

User Response: Contact IBM Technical Support for

assistance.

BITM180M Storage exhausted for select linklist.

Explanation: This error requires further investigation.

User Response: Contact IBM Technical Support for assistance.

BITM180N Free failed for archive result set, **rc**=return code, **rs**=reason

Explanation: An attempt was made to free an archive result set, but the attempt failed.

User Response: Refer to the return code and reason code for more information. Contact IBM Technical Support for assistance.

BJTM180O Storage exhausted for view linklist, rc=return code

Explanation: This error requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM180P View requires an operand, Jobs, Sysout, All

Explanation: You must indicate whether you want to view the data by job name, sysout, or all data.

User Response: Choose either Job, Sysout, or All for

your view.

BITM180O Invalid LINK command

Explanation: The Link command does not work on this

screen.

User Response: Use a different command.

BITM180R **Invalid PREFER command**

Explanation: The PREFER command does not work on

this screen.

User Response: Use a different command.

BJTM180S Preferences saved in your profile dataset.

Explanation: The entries you made for preferences were

saved in your profile dataset.

User Response: None required.

BJTM180T Request cancelled.

Explanation: None.

User Response: None required.

BITM180U Rules refreshed from database.

Explanation: None

User Response: None required.

BJTM180V No changes made to rules, update not

attempted.

Explanation: None

User Response: None required.

BITM180W Internal error, module name called with

invalid option option name.

Explanation: This internal error requires further

investigation.

User Response: Make a note of the module name and option name listed in the message, then contact IBM

Technical Support for assistance.

BJTM180X No reports have been defined by the administrator.

Explanation: There are no custom reports for you to

view.

User Response: None required.

BJTM180Y Invalid LINK command

Explanation: You cannot use the Link command on this

User Response: Use a different command.

BJTM180Z Rule deleted

Explanation: You used a line command to delete an interceptor, selector, or report rule, and this message confirms that the rule was deleted.

User Response: None required.

BJTM190A Invalid Status. Only Enabled or Disabled allowed.

Explanation: You typed something other than Enabled or Disabled in the Status field for this rule.

User Response: Enter either Enabled (activate) or Disabled (inactivate) in the Status field for this rule.

BITM190B Invalid Disposition. Only Keep or Delete allowed.

Explanation: You typed something other than Keep or Delete in the Disposition field for this sysout.

For interceptor rules, Keep sends the data to the spool, but makes a copy of it for the archive at the same time. For selector rules, Keep means keep the data on the spool and make a copy of it for the archive.

For interceptor rules, Delete prevents the data from going to the spool, but makes a copy of the data for the archive. For selector rules, Delete removes the data from the spool after making a copy of the data for the archive.

User Response: Enter either Keep or Delete in the Disposition field.

BJTM190C Invalid (entry for) Exists. Only Leave, Replace or Extend allowed.

Explanation: You must tell Output Manager what to do if an archive already exists. Type one of the following in the Exists field:

- Replace Replace the data in the archive with the new data.
- Leave Leave the old data in the archive and do not update it. Keep the data on the spool.
- Extend Write the new data at the end of the old archive data set.

User Response: Type Leave, Replace, or Extend in the Exists field.

BJTM190D Invalid Job type. Only All, Batch, Tso, Stc, or APPC allowed.

Explanation: You must indicate the type of job that this rule applies to. Valid entries for the Job Type field are:

- Batch only jobs processed in batch mode
- Appc only jobs associated with a specific application
- Tso only jobs processed on TSO systems.
- Stc only jobs related to the started task

User Response: Type either All, Batch, Tso, Stc, or APPC in the Job Type field.

BJTM190E Invalid jesqueue. Only All, Hold, External Writer, Write, or Hold allowed.

Explanation: You must indicate what to do with the jobs in the JES queue that will be archived. Valid entries are:

- All Select all jobs in the JES queue.
- External Only select jobs assigned to a special, external writer. This may or may not be a printer.
- Write Select jobs that are ready to be written to a
- Hold Select jobs that are on hold in the JES queue, and are not ready to be written.

User Response: Specify either All, Hold, External Writer, Write, or Hold for the JES queue field.

BJTM190F Invalid Capture. Only Yes or No allowed.

Explanation: You must indicate if you want the information associated with the SYSOUT, such as printer attributes, to be saved in the archive with the data.

User Response: Type Yes or No in the Capture Attr field.

BJTM190G Jobname is required.

Explanation: You must type the name of a job to associate with this rule.

User Response: Type a job name.

BJTM190H At least one of proc name, step name, procstep, or step number.

Explanation: You need to enter more job information.

User Response: Specify either a Proc Name, Step Name, Proc Step, or Step Number.

BJTM190I DD name is required.

Explanation: You left the DD name field blank. This is a required field.

User Response: Type up to eight (8) characters for the name of the DD statement that is associated with this custom report.

BJTM190J Invalid dialog exit. Only Save, Prompt, or Nosave allowed.

Explanation: Indicate what you want Output Manager to do when you exit a dialog: Save your entries, give you a Prompt (a pop-up window) so you can choose whether to save your entries, or do not save your entries (Nosave).

User Response: Type Save, Prompt, or Nosave to indicate what Output Manager should do when you exit a dialog.

BJTM190K Invalid level exit. Only Save, Prompt, or Nosave allowed.

Explanation: Indicate what you want Output Manager to do when you exit a level: Save your entries, give you a Prompt (a pop-up window) so you can choose whether to save your entries, or do not save your entries (Nosave).

User Response: Type Save, Prompt, or Nosave to indicate what Output Manager should do when you exit a level.

BJTM190L Invalid delete option. Only Prompt or Noprompt allowed.

Explanation: Indicate what you want Output Manager to do when you use a Delete line command: Display a window (Prompt) asking you to confirm the deletion or automatically perform the deletion (Noprompt).

User Response: Type either Prompt or Noprompt to indicate how to handle any Delete requests.

BJTM190M Preferences saved in your profile dataset.

Explanation: This is an informative message.

User Response: None required.

BJTM190N Invalid view option, only Job, Sysout, Report, or All allowed.

Explanation: You can change how information is displayed by choosing the column that is most important to you.

User Response: Specify the view you want to have displayed by choosing Job, Sysout, Report, or All.

BJTM200A Invalid color, only Red, Pink, Green, Yellow, Blue, Turquoise or White allowed.

Explanation: There are many colors to choose from, but not the one you entered.

User Response: Type R (red), P (pink), G (green), Y (yellow), B (blue), T (turquoise) or W (white) to select a color for this field.

BITM200B Invalid hilite, only None, Blink, Reverse, Uscore allowed

Explanation: Indicate how you want to highlight information.

User Response: Type either Blink (flashing), Reverse (background and foreground colors are reversed), Uscore (underscore the text), or None.

BJTM200C Invalid intensity, only Low or High allowed.

Explanation: Indicate the level of intensity (brightness) that you want to use for this type of information.

User Response: Type either Low or High for the level of intensity.

BJTM200D Preferences saved in your profile dataset.

Explanation: This is for your information only.

User Response: None required.

BJTM200E Invalid parm, internal error parm=parm name

Explanation: The parameter name listed in the message is invalid.

User Response: Try using a different parameter or contact IBM Technical Support for assistance.

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Explanation: This is for your information only.

User Response: None required.

BJTM250A Invalid Command, command is not a valid command.

Explanation: The command you entered does not work on this screen.

User Response: Try a different command.

BJTM250B Select Error. Internal select error command.

Explanation: A selection error occurred.

User Response: Contact IBM Technical Support for

assistance.

BJTM300A Query failed for distribution list, rc =

 $return\ code$, $rs = reason\ code$

Explanation: The distribution list you wanted could not

be displayed.

User Response: Look at the return code and reason code for more details on why the query failed. Check to ensure that the subsystem containing this distribution list is active. Otherwise, try selecting a different distribution list.

BJTM300B No recipient found that match the requested criteria.

Explanation: None

User Response: Try entering different criteria.

BJTM300C Bad distribution list. Internal error footprint mismatch.

Explanation: This message requires further

investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM300D No results found that matched the

requested criteria.

Explanation: None

User Response: Try entering different criteria.

BJTM300E Storage exhausted for recipient linklist, rc = return code.

Explanation: This message requires further

investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM300F Free failed for recipient result set, rc =

 $return\ code$, $rs = reason\ code$

Explanation: This message requires further

investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM300G Storage exhausted for view linklist, rc

= return code

Explanation: This message requires further

investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM300H Insert failed for distribution list, rc =

 $return\ code,\ rs = reason\ code$

Explanation: An attempt was made to either insert a new distribution list or insert a new recipient in an existing distribution list, but the insertion process failed.

User Response: Refer to the return code and reason code for more details on why the Insert process failed. Contact Technical Support for assistance.

BJTM300I Entry added.

Explanation: None

User Response: None required.

BJTM300J Request cancelled per user request.

Explanation: None

User Response: None required.

BJTM300K Update failed for distribution list,

rc=return code, rs=reason.

Explanation: You attempted to use the Edit line command to update a distribution list, but it did not

work.

User Response: Refer to the return code and reason code for more details on why the update process failed.

Contact IBM Technical Support for assistance.

BJTM300L Update complete for distribution list.

Explanation: None

User Response: None required.

BJTM300M Delete failed for distribution list,

rc=return code, rs=reason.

Explanation: You attempted to delete a distribution list,

but this did not work.

User Response: Refer to the return code and reason code for more details. Contact IBM Technical Support for

for more details. Contact IBM Technical Support for

assistance.

BJTM300N Delete complete for distribution list.

Explanation: None.

User Response: None required.

BJTM300O Description required for distribution

list.

Explanation: You must type a name for your

distribution list.

User Response: Type up to 60 characters for the

description or name for this distribution list.

BJTM300P No recipients exist for this list, add

them if you wish.

Explanation: There are no individual recipients (IDs)

assigned to this distribution list.

User Response: Use the Add line command to add one

or more recipient IDs to a distribution list.

BJTM310A Query failed for distribution list, rc =

 $return\ code$, $rs = reason\ code$

Explanation: An attempt was made to query a

distribution list, but it did not work.

User Response: Refer to the return code and reason code

for more details. Contact IBM Technical Support

BJTM310B No recipient (or list) found that match

the requested criteria

Explanation: None

User Response: Try different criteria.

BJTM310C Bad distribution list. Internal error

footprint mismatch

Explanation: This error requires further investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM310D No results found that match the

requested criteria.

Explanation: None

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User Response: None required.

BJTM310E Storage exhausted for recipient

linklist, rc=return code

Explanation: This message requires further

investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for

assistance.

BJTM310F Free failed for recipient result set,

rc=return code, rs=reason

Explanation: This message requires further

investigation.

User Response: Make a note of the return code and

reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM310G Storage exhausted for view linklist,

rc=return code

Explanation: This message requires further

investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for

assistance.

BJTM310H Insert failed for distribution list,

rc=return code, rs=reason code

Explanation: You attempted to use the Insert line

command to add a distribution list, but it did not work.

User Response: Refer to the return code and reason code for more details. Contact IBM Technical Support for

assistance.

BJTM310I Distribution list, list name, has been

saved.

Explanation: The distribution list that is named in the

message was saved.

User Response: None required.

BJTM310J Request cancelled per user request.

Explanation: None.

User Response: None required.

BJTM310K Internal error, size mismatch ui

size=return code, db size=size

Explanation: This message requires further

investigation.

User Response: Make a note of the return code and size listed in the message, then contact IBM Technical Support for assistance.

BITM310L Storage exhausted for new recipient **node**, **rc**=return code

Explanation: A distribution list can hold a maximum of 127 recipients.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM310M Invalid value, only List or Id are allowed.

Explanation: Indicate whether the recipients you want to locate are in a distribution list (List) or are individual recipients (ID).

User Response: Type either List or ID and press Enter to continue.

BJTM310N Refreshed, data was refreshed from database.

Explanation: None

User Response: None required.

BJTM310P Recipients added to distribution list.

Explanation: None

User Response: None required.

BITM310O No recipients added. Selected entries already on list.

Explanation: The recipients that you selected to add to a list are already a part of that list.

User Response: Choose different recipients for this list.

BITM310R Distribution list override failed, rc=return code, rs=reason code

Explanation: An attempt to override the distribution list assigned to a specific custom report did not work.

User Response: Refer to the return code and reason code listed in the message. Contact IBM Technical Support for assistance.

BJTM350A Query failed for recipient ID, rc=return code, rs=reason code

Explanation: The program could not locate the recipient ID you selected.

User Response: Refer to the return code and reason code for more details. Contact IBM Technical Support for assistance.

BITM350B No recipient found that match the requested criteria

Explanation: None

User Response: Try entering different criteria or no

criteria to see a complete list.

BJTM350C Bad recipient ID. Internal error footprint mismatch.

Explanation: This error requires further investigation.

User Response: Contact IBM Technical Support for assistance.

BJTM350D No results found that match the requested criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM350E Storage exhausted for recipient linklist, rc=return code

Explanation: This message requires further

investigation.

User Response: Contact IBM Technical Support for

assistance.

BITM350F Free failed for recipient result set, rc = $return\ code$, $rs = reason\ code$

Explanation: This message requires further investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM350G Storage exhausted for view linklist, rc = return code

Explanation: This message requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BITM350H Recipient has not been deleted.

Explanation: You used the Delete line command, but then cancelled the deletion.

User Response: None required.

BJTM350I Delete service failed, rc=return code,

rs=reason

Explanation: The delete process failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM350J Recipient has been deleted.

Explanation: None

User Response: None required.

BJTM350K Invalid view option, only Name, Print, or All allowed.

Explanation: You are attempting to change the display of information on a screen, based on a specific column.

User Response: The view can be adjusted to display by Name, Print, or All columns.

BJTM350L Internal error, size mismatch ui size

=size or return code, **db size**=size or reason code

Explanation: This message requires further

investigation.

User Response: Make a note of the sizes or return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM400A Query failed for printer attributes, rc = return code, rs = reason code

Explanation: An attempt to access the printer attributes failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM400B No printer attributes that match the requested criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM400C Bad attribute ID. Internal error footprint mismatch.

Explanation: This message requires further

investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM400D No results found that matched the

request criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM400E Storage exhausted for recipient

linklist, rc = *return code*

Explanation: This message requires further

investigation.

User Response: Make a note of the return code listed in

the message, then contact IBM Technical Support for

assistance.

BJTM400F Free failed for recipient result set,

rc=return code, rs=reason

Explanation: This message requires further

investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM400G Storage exhausted for view linklist, rc

 $= return\ code$

Explanation: This message requires further

investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for

assistance.

BJTM400H Printer attribute entry has not been

deleted.

Explanation: None

User Response: None required.

BJTM400I Delete failed, rc=return code, rs=reason

Explanation: None

User Response: Refer to the return code and reason code for more information on why the delete process failed.

BJTM400J Entry has been deleted.

Explanation: None

User Response: None required.

BJTM400K View requires an operand, PRINT, PSF, LASER, MISC, or ALL.

Explanation: You are attempting to change the display of information on the Printer Attributes screen, but have not selected a valid view.

User Response: Type or select PRINT to display print fields, PSF for psf fields, LASER for 3800 fields, MISC for miscellaneous fields, or ALL for all fields.

BJTM410A Insert failed for recipient ID, rc = return code, rs = reason code

Explanation: You attempted to insert a recipient ID, but it did not work.

User Response: Refer to the return code and reason code for more details on why this Insert process failed. Contact IBM Technical Support for assistance.

BJTM410B Replace failed for recipient ID rc = return code, rs = reason code

Explanation: You attempted to replace a recipient ID with another ID, but it did not work.

User Response: Refer to the return code and reason code for more details. Contact IBM Technical Support for assistance.

BJTM410C	Storage exhausted for new linklist
	row, record added successfully.

Explanation:

User Response:

BJTM410D Read by rowid failed, rowid=rowid, rc=return code, rs=reason

Explanation: This message requires further investigation.

User Response: Make a note of the row ID, return code, and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM410E Invalid link option, only CHOPRT and EDIPRT allowed.

Explanation: None

User Response: None required.

BJTM410F SAVE command disabled for Print/Reprint Override processing

Explanation: None

User Response: None required.

BJTM420A Invalid input. Name out can only be Yes or No

Explanation: The Name out field appears when you Insert or Edit a recipient ID. The only valid entries for this field are Yes and No.

User Response: Type Yes or No in the Name out field to indicate whether this recipient's name should be generated as part of the output card.

BJTM420B Invalid input. Hard copy can only be Yes or No

Explanation: The Hard Copy field only accepts Yes or No to indicate whether this person should always get a hard copy (print out) of any report referencing that distribution list.

User Response: Type Yes or No for the Hardcopy field.

BJTM420C Invalid input. Duplex can only be No, Normal, or Tumble

Explanation: The entry you made for the Duplex field when inserting or editing a Recipient ID is not valid.

User Response: Type either No, Normal, or Tumble for the Duplex field.

BJTM420D Invalid input. Burst can only be Yes or No

Explanation: The entry you made for the Burst field when inserting or editing a Recipient ID is not valid. To "burst" a report means to separate the report into smaller reports based on specific criteria, such as branch ID.

User Response: Type either Yes or No in the Burst field.

BJTM420E Invalid input. Label can only be Yes or No

Explanation: You typed an invalid entry in the Label field when inserting or editing a Recipient ID. The Label field determines whether a security label is printed with the report.

User Response: Type Yes or No in the Label field, or leave it blank.

BJTM420F Sysarea can only be Yes or No

Explanation: You typed an invalid entry in the Sysarea field when inserting or editing a Recipient ID. The Sysarea field determines whether a System area label is printed with the report.

User Response: Type Yes or No in the Sysarea field, or leave it blank.

BJTM440A Invalid input. Control can only be Program, Single, Double or Triple.

Explanation: You typed an invalid entry in the Control field on the Printer Attributes Detail screen.

User Response: Type up to eight (8) characters for the printer control to indicate the spacing for the output. Valid values are:

- Program Each logical record starts with a carriage control character.
- Single Print the output with single spacing.
- Double Print the output with double spacing.
- Triple Print the output with triple spacing.

BJTM440B Invalid input. Normal disposition can only be Write, Hold, Keep, Leave or

Explanation: The value you typed in the Normal Disposition field is not valid.

User Response: Type either Write, Hold, Keep, Leave, or Purge in the Normal Disposition field.

BJTM440C Invalid input. Abnormal disposition can only be Write, Hold, Keep, Leave, or Purge.

Explanation: The value you typed for the Conditional Disposition field is not valid.

User Response: Type either Write, Hold, Keep, Leave, or Purge in the Conditional Disposition field.

BJTM440D Invalid input. Form length metric can only be Inches or CM.

Explanation: The Form Length field consists of two entries. The first is for a number, the second accepts only Inches or CM.

User Response: Type a number in the first Form Length field, and either Inches (uppercase "I") or CM in the second Form Length field.

Invalid input. Error blocking can only BJTM440E be Block, Unblock, Char blk or Pos

Explanation: The entry you made in the Err Blocking field is not valid. There are two type of errors that can either be reported normally or blocked:

- Print-positioning errors. These errors occur when the printed data goes beyond the physical limits of the page, or beyond the overlay or logical page that is associated with this print job.
- Invalid-character errors. These errors occur when a text character is not part of a font set.

Type one of the following to indicate how to handle "positional" and "invalid character" errors:

- **Block** Print-positioning errors and invalidcharacter errors are not reported to PSF.
- Unblock Print-positioning errors and invalidcharacter errors are reported to PSF.
- Char Blk Invalid-character errors are blocked, but print-positioning errors are reported.
- Pos blk Print-positioning errors are blocked, but invalid-character errors are reported.

User Response: Type either Block, Unblock, Char blk, or Pos blk in the Err Blocking field.

BJTM440F Invalid input. Print errors can only be Yes or No.

Explanation: The entry you made in the Print Errors field is not valid. In the first field, type "Yes" or "No" to indicate whether all error messages should be printed at the end of the output data set. If you type "No", the only messages that are printed are those that force an early termination of the print job.

In the second field, type a number from 0 - 999 to indicate the maximum number of error messages to allow before cancelling the printing of the current data set. A value of zero (0) is treated as infinite. This message count includes all error messages that are generated by PSF, even if you specified "No" in the first field to prevent the printing of error messages.

User Response: Type Yes or No in the first field and a number between 0 - 999 in the second field.

BITM440G Invalid input. Print error disposition can only be Quit or Hold

Explanation: The entry you made in the Error Disposition field is not valid. Type one of the following values to indicate what to do if an error occurs during printing that forces the termination of the print job:

- Quit Release the data set back to JES as complete, even if an early termination error occurs during printing.
- **Hold** Keep the data set on the spool until a system operator releases it.

User Response: Type either Quit or Hold in the Error Disposition field.

BJTM440H Invalid input. Overflow can only be Yes or No

Explanation: The entry you made in the Overflow field is not valid. Indicate whether to perform a JES3 overflow check by entering one of the following values:

- Yes- The printer should eject whenever an end-offorms indicator is encountered.
- **No** Do not check for forms overflow.

User Response: Type either Yes or No in the Overflow field.

BITM440I Invalid input. Table reference character can only be Yes or No

Explanation: The entry you made for the table reference character field (Table ref chr) is not valid. Type Yes or No to indicate whether the data contains table reference characters (TRC) codes. The TRC code indicates which font in the "Char arg tbl" field should be used to print the

User Response: Type Yes or No in the Table ref chr field.

BJTM440I Invalid input. Resolution format can only be P240 or P300.

Explanation: The entry you made in the Resolution field is not valid. Type one of the following to indicate the type of resolution used to format the print data set:

- P240 Formatted with 240 pels per inch.
- P300 Formatted with 300 pels per inch.

User Response: Type either P240 or P300 in the Resolution field.

BJTM450A Status set to disabled, due to no archive link established

Explanation: To change the status to "enabled," meaning active, you must associate an archive with this rule.

User Response: Refer to "Using the Prompt Command" on page 68 for instructions on how to tie an archive attribute to this rule.

BITM450B Status set to disabled, selector must have at least one field set.

Explanation: This selector rule is "disabled," meaning "inactive."

User Response: Refer to "Adding or Editing Rules" on page 64 for more information on creating Selector rules.

BJTM450C Status set to disabled, interceptor must have at least one field set.

Explanation: This interceptor rule is "disabled," meaning "inactive."

User Response: Refer to "Adding or Editing Rules" on page 64 for more information.

BJTM450D Status set to disabled, reports must have a name.

Explanation: This rule is now "disabled," meaning "inactive."

User Response: Refer to "Adding or Editing Rules" on page 64 for more information on report selection rules.

BITM450E Status set to disabled, JOBNAME is required for reports.

Explanation: This rule is "disabled," meaning "inactive," because there is no job name associated with this rule.

User Response: Type up to eight (8) characters for a job name to associate with this rule. Refer to "Adding or Editing Rules" on page 64 for more information.

BJTM450F Status set to disabled, STEPNAME is required for reports.

Explanation: This rule is "disabled," meaning "inactive," because there is no step name associated with this rule.

User Response: Type up to eight (8) characters for a step name to associate with this rule. Refer to "Adding or Editing Rules" on page 64 for more information.

BJTM450G Status set to disabled, DDNAME is required for reports.

Explanation: This rule is "disabled," meaning "inactive," because there is no DD name associated with this rule.

User Response: Type up to eight (8) characters for a DD name to associate with this rule. Refer to "Adding or Editing Rules" on page 64 for more information.

BITM500A Query failed for archive attributes, rc=return code, rs=reason

Explanation: An attempt to query Archive Attributes failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

No archive attributes that match the BITM500B requested criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BITM500C Bad attribute ID. Internal error footprint mismatch.

Explanation: This message requires further investigation.

User Response: Contact IBM Technical Support for assistance.

BJTM500D No results found that match the

requested criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM500E Storage exhausted for archive attribute linklist, rc=return code.

Explanation: This message requires further

investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for

assistance.

BJTM500F Free failed for archive attribute result set, rc=return code, rs=reason.

Explanation: This message requires further

investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM500G Storage exhausted for view linklist, rc=return code.

Explanation: This message requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM500H Archive attribute entry has not been deleted.

Explanation: You may have selected an archive attribute name to delete, then cancelled the deletion.

User Response: None required.

BITM500I Delete failed, rc=return code, rs=reason

Explanation: None

User Response: Refer to the return code and reason code for more details. Contact IBM Technical Support for

assistance.

BJTM500J Entry has been deleted.

Explanation: You selected an item for deletion and it

was deleted.

User Response: None required.

BITM500K View requires an operand, NAME or

Explanation: The command you typed is not valid. You can either view all of the details of the archive attributes on the screen (VIEW ALL), or you can view a smaller subset of information (VIEW NAME). You may need to Page Right to see all of the columns.

User Response: Type either VIEW NAME or VIEW ALL to indicate which set of archive attribute information you want to display.

BJTM510A **Insert failed for attribute ID, rc=***return* code, rs=reason code

Explanation: You attempted to insert a new archive attribute, but it did not work.

User Response: Refer to the return code and reason code for more details. Contact IBM Technical Support for assistance.

BJTM510B Replace failed for attribute ID, rc=return code, rs=reason code

Explanation: An attempt to update an attribute failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM510C Storage exhausted for new linklist row, record added successfully

Explanation: This message requires further investigation.

User Response: Contact IBM Technical Support for assistance.

BJTM510D Read by rowid failed, rowid=row ID, rc=return code, rs=reason code

Explanation: A read process failed at the row listed in the message.

User Response: Refer to the row ID, return code, and reason code for more details. Contact IBM Technical Support for assistance.

BJTM510E Invalid link option, only CHOPRT and EDIPRT allowed.

Explanation: None

User Response: Use one of the values listed in the

message.

BJTM520A Only Tracks, Cylinders, Blocks, Kilobytes, Megabytes, Bytes, or Records.

Explanation: The entry you made in the Space Units field is not valid. Type one of the following to indicate the type of space units associated with this archive:

- Blocks
- Tracks
- Cylinders
- Kilobytes
- Megabytes
- Bytes
- Records

User Response: Type a valid entry, listed above.

BJTM520B Byte modifier can only be Bytes, Mega, or Kilo

Explanation: The entry you made in the Average Record Unit field is not valid. Valid entries are B (bytes), M (megabytes), or K (kilobytes).

User Response: Type either B, M, or K to indicate the average record units.

BJTM520C Only Catalog or Keep allowed.

Explanation: The entry you made in the Normal Disposition field is not valid. Indicate the standard disposition of this archive by entering one of the following:

- Catalog The archive is accessible through a catalog.
- **Keep** Save this archive.

User Response: Type either Catalog (C) or Keep (K) in the Normal Disposition field.

BJTM520D Only Catalog, Delete or Keep allowed.

Explanation: The entry you made in the Abnormal Disposition field is not valid. Indicate what to do with this archive if the "save to archive" fails. Valid entries are:

- Catalog The archive is accessible through a catalog.
- Keep Save this archive.
- **Delete** Delete this archive.

User Response: Type either Catalog (C), Keep (K), or Delete (D) in the Abnormal Disposition field.

BJTM520E Invalid space release. Only Yes or No allowed.

Explanation: The entry you made in the Release Unused Space field is invalid. Type either Yes or No to indicate whether you want to release unused space.

User Response: Type Yes or No in the Release Unused Space field on the Archive Attributes screen.

BJTM520F Not numeric. Retention period must be a number.

Explanation: You can only enter a number in the Retention Period field.

User Response: Type a number between 1 and 99,999 to indicate the number of days you want to keep this archive.

BJTM600A Query failed for product status, rc=return code, rs=reason code

Explanation: An attempt to check the status of Output Manager failed

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM600B No archive attributes that match the requested criteria.

Explanation: None

User Response: Try using different criteria or no criteria.

BJTM600C Bad attribute ID. Internal error footprint mismatch

Explanation: This error requires further investigation.

User Response: Contact IBM Technical Support for assistance.

BJTM600D No results found that match the requested criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM600E Storage Exhausted for archive attribute linklist, rc=return code

Explanation: This message requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM600F Free failed for archive attribute result set, rc=return code, rs=reason code

Explanation: This message requires further investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM600G Storage exhausted for view linklist, rc=return code

Explanation: This message requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM600H Archive attribute entry has not been deleted.

Explanation: You may have used the Delete line command to choose an entry for deletion, but then cancelled the deletion.

User Response: None required.

BJTM600I	Delete failed, rc= <i>return code,</i> rs= <i>reason</i>
	anda

Explanation: A delete process failed.

User Response: Refer to the return code in the message and contact IBM Technical Support.

BJTM600J Entry has been deleted.

Explanation: None

User Response: None required.

BJTM600K View requires an operand, NAME or

Explanation: You are attempting to change the view of the data that is displayed on the screen, but need to use VIEW NAME or VIEW ALL.

User Response: Type VIEW NAME to display the data by name or VIEW ALL to display all of the data.

BJTM650A Query failed for activity records, rc=return code, rs=reason

Explanation: None

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM650B No activities found that match selection criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria

BJTM650C Bad activity ID. Internal error footprint mismatch.

Explanation: This message requires further investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM650D No results found that match the requested criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM650E Storage exhausted for activity linklist, rc=return code.

Explanation: This message requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM650F Free failed for activities result set, rc=return code, rs=reason

Explanation: This message requires further investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM650G Storage exhausted for view linklist, re=return code.

Explanation: This message requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM650H Invalid option, option, has been passed to module name.

Explanation: An invalid option was passed to a specific module.

User Response: You may want to try a different option, or contact IBM Technical Support for assistance.

BJTM650I Internal size error, ui size=return code, service size=size.

Explanation: This message requires further investigation.

User Response: Make a note of the return code and size listed in the message, then contact IBM Technical Support for assistance.

BJTM650J Internal logic error, view is invalid.

Explanation: A problem occurred when attempting to change the view of the data.

User Response: Try a different view or contact IBM Technical Support for assistance.

BJTM650K Invalid line command, try "S"

Explanation: Use the S line command.

User Response: An S line command usually means "Select", but is also used for "Set Hardcopy."

BJTM650L Activities refreshed

Explanation: None

User Response: None required.

BJTM650M Invalid view option, Log or Active are valid.

Explanation: The only entries you can make to change the view are Log or Active.

User Response: Type Log or Active.

BJTM650N Request cancelled

Explanation: None

User Response: None required.

BJTM650O Class table update failed, rc=return code, rs=reason code.

Explanation: This message requires further investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM650P Query failed for class table, rc=return code, rs=reason code.

Explanation: This message requires further investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM650Q Class table does not exist.

Explanation: None

User Response: None required.

BJTM650R Class table has been updated.

Explanation: None

User Response: None required.

BJTM670A Query failed for event records, rc=return code, rs=reason

Explanation: An attempt to display event records for the Activity Monitor failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM670B No events found that match selection criteria

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM670C Bad event ID. Internal error footprint mismatch.

Explanation: This message requires further investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM670D No results found that match the requested criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM670E Storage exhausted for event linklist, re=return code.

Explanation: This message requires further

investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM670F Free failed for events result set, rc=return code, rs=reason.

Explanation: This message requires further investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM670G Storage exhausted for view linklist, re=return code.

Explanation: This message requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM670H Invalid option. Option name has been passed to module name.

Explanation: None

User Response: Try using a different option or contact IBM Technical Support for assistance.

BJTM670I Internal size error, ui size=return code, service size=reason

Explanation: This message requires further investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM670J Internal logic error, view is invalid.

Explanation: The view you specified does not work on this screen.

ills screen.

User Response: Try a different view.

BJTM670K Invalid line command, try "S"

Explanation: The only line command that is valid on this Activity screen is S (Select).

User Response: Type S to select an activity to review.

BJTM670L Events refreshed.

Explanation: None

User Response: None required.

BJTM670M Invalid view option, Log or Active are valid.

Explanation: The word you typed after "VIEW" is not

valid

User Response: Type VIEW LOG or VIEW ACTIVE.

BJTM700A Query failed for report layouts, rc=return code, rs=reason

Explanation: An attempt to query the table containing

the list of report layouts failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM700B No layouts found that match the requested criteria

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM700C Bad layout id. Internal error footprint mismatch.

Explanation: This message requires further

investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM700D No results found that match the requested criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM700E Storage exhausted for layouts linklist, rc=return code.

Explanation: This message requires further

investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM700F Free failed for layout result set, rc=return code, rs=reason

Explanation: This message requires further investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM700G Storage exhausted for view linklist, rc=return code.

Explanation: This message requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM700H Layout has not been deleted.

Explanation: You may have typed the Delete line command next to a report layout, then decided to cancel the deletion.

User Response: None required.

BJTM700I Delete service failed, rc=return code,

rs=reason

Explanation: A deletion attempt failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM700J Layout has been deleted.

Explanation: None

User Response: None required.

BJTM700K Only Select, Add, View, Edit or Delete allowed.

Explanation: You made an entry that is not valid for this

field.

User Response: Type either S (Select), A (Add), V (View), E (Edit), or D (Delete) next to a layout.

BJTM710A Bad parm passed to module module name, parm=parm name

Explanation: This message requires further investigation.

User Response: Make a note of the module name and parameter name listed in the message, then contact IBM Technical Support for assistance.

BJTM710B No parm passed to module module

Explanation: This module expected to receive a parameter, but did not.

User Response: Make a note of the module name and contact IBM Technical Support for assistance.

BJTM710C Query failed for report layouts, rc=return code, rs=reason

Explanation: An attempt to query the report layouts table failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM710D Bad layout id. Footprint mismatch on layout result set

Explanation: This message requires further investigation.

User Response: Contact IBM Technical Support for assistance.

BJTM710E No layouts found that match selection criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM710F Storage exhausted for layout linklist.

Explanation: This is an informative message.

User Response: Contact IBM Technical Support for

assistance.

BJTM710G Free failed for layout result set rc=return code, rs=reason

Explanation: This message requires further

investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM710H Storage exhausted for layout view

Explanation: None

User Response: Contact IBM Technical Support for

assistance.

BJTM710I View stack full. Internal error, too many levels nested.

Explanation: This message requires further

investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM710J Preferences saved in your profile data

set.

Explanation: None

User Response: None required.

BJTM710K Save failed. Service failed, rc=return

code, rs=reason

Explanation: A save process failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM710L Layout saved in DB2 table

Explanation: None

User Response: None required.

BJTM710M Invalid exit pref. Exit name is not valid

Explanation: The entry you made telling the Preferences

how to handle exiting was not valid.

User Response: Type a valid entry for Exit processing on

the Preferences screen.

BJTM710N Invalid PREFER command

Explanation: This command does not work on this

screen.

User Response: Try a different command.

BJTM710O request cancelled

Explanation: None

User Response: None required.

BJTM710P Layout has not been saved

Explanation: You may have indicated that you wanted

to save the layout, then cancelled the save process.

User Response: None required.

BJTM710Q Storage exhausted for new layout

nodes

Explanation: None

User Response: Contact IBM Technical Support for

assistance.

BJTM710R Invalid line command. Try E - Edit, I - Insert, D - Delete, R - Repeat

Explanation: You entered a line command that does not

work on this screen.

User Response: Type either E (Edit), I (Insert), D

(Delete), or R (Repeat).

BJTM710S Entry(s) deleted. All requested entries

have been deleted.

Explanation: None

User Response: None required.

BJTM710T Layouts refreshed from data base

Explanation: None

User Response: None required.

BJTM720A Only DCB, ASA or Machine allowed

Explanation: You typed an entry that is not valid for this field. Indicate the type of printer control that will be used

with this report layout:

 DCB - Use the spacing assigned to the report by the application. If you do not know which value to type,

use DCB. It is the default.

• **ASA** - Use ANSI-standard spacing.

• **Machine** - Use machine carriage control.

User Response: Type DCB, ASA, or Machine in the Print

Control field.

BJTM720B A layout name is required.

Explanation: You are attempting to create a new layout, but have not provided a name for it in the Layout Name

field.

User Response: Type up to 24 characters for a name for

the report layout.

BJTM720C Invalid relationship. Only Diagonal, Below or Adjacent allowed

Explanation: You made an invalid entry in the Relationship field or you made an entry in the Relationship field without specifying a name in the

Relative Area Name field.

User Response: Type either Diagonal, Below, or Adjacent for the relationship, or leave this field blank.

Also, be sure you've specified an area name in the

Relative Area Name field.

BJTM720D Invalid dialog exit. Only Save, Prompt, or Nosave allowed.

Explanation:

User Response: Type either Save, Prompt, or Nosave to indicate what you want Output Manager to do when you exit a dialog.

BJTM720E Invalid level exit. Only Save, Prompt, or Nosave allowed.

Explanation: The entry you made in the Level Exit field on the Preferences screen is not valid. Indicate what you want Output Manager to do when you exit a level: Save your entries, give you a Prompt (a pop-up window) so you can choose whether to save your entries, or do not save your entries (Nosave).

User Response: Type Save, Prompt, or Nosave in the

Level Exit field.

BJTM720F An area name is required.

Explanation: None

User Response: Type a name for the area you are

defining.

BJTM720G A field name is required.

Explanation: None

User Response: Type a name for the field you are

defining.

BJTM720H Not a valid number. Only numerics

allowed.

Explanation: None

User Response: Type a number in this field.

BJTM720I Invalid constant. Only No or Yes

allowed.

Explanation: None

User Response: Type either Yes or No in this field.

BJTM720J Invalid delete option. Only No or Yes

allowed.

Explanation: The Delete line command is not valid at

this point.

User Response: Type either Yes or No.

BJTM750A Query failed for custom reports, re=return code, rs=reason

Explanation: An attempt to query the custom reports

failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM750B No reports found that match the requested criteria

Explanation: None

User Response: Try different selection criteria or no

criteria.

BJTM750C Bad report id. Internal error footprint mismatch.

Explanation: This message requires further

investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM750D No results found that match the

requested criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BJTM750E Storage exhausted for reports linklist,

rc=return code.

Explanation: This message requires further

investigation.

User Response: Make a note of the return code listed in

the message, then contact IBM Technical Support for

assistance.

BJTM750F Free failed for report result set,

rc=return code, rs=reason

Explanation: This message requires further

investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM750G Storage exhausted for view linklist,

rc=return code

Explanation: This message requires further

investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BJTM750H Report has not been deleted.

Explanation: You may have typed the D (Delete) line command next to a report, then decided to cancel the deletion.

User Response: None required.

BJTM750I Delete service failed, rc=return code, rs=reason

Explanation: This message requires further investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM750J Report has been deleted.

Explanation: None

User Response: None required.

BJTM750K Invalid prefer option. Only set is allowed.

anowed

Explanation: The only "preference" option you can

choose is Set.

User Response: Choose the Set Preferences option.

BJTM750L Preferences saved in your profile

dataset.

Explanation: None

User Response: None required.

BJTM750M No custom reports defined by the

report administrator.

Explanation: No custom reports have been created.

User Response: If a Basic report is displayed, instead of a custom report, the administrator needs to assign a report layout to this basic report to convert it to a custom

report.

BJTM750N Invalid line command. Try "S" or a valid line command.

Explanation: The S line command selects an entry or assigns a setting for the Hard Copy field.

User Response: Try the S line command or another line command that displays on this screen.

BJTM760A Bad parm passed to module module name, parm = parm name.

Explanation: This message requires further

investigation.

User Response: Make a note of the module name and parameter listed in the message, then contact IBM Technical Support for assistance.

BJTM760B No parm passed to module module name.

Explanation: This module was expecting to receive a parameter, but didn't.

User Response: Either provide a parameter, or contact IBM Technical Support for assistance.

BJTM760C Query failed for custom report, re=return code, rs=reason

Explanation: An attempt to query a custom report failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM760D Bad report id. Footprint mismatch on custom report result set.

Explanation: This message requires further investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM760E No reports found that match selection criteria

Explanation: None

User Response: Try using different criteria or no criteria.

BJTM760F Storage exhausted for custom report linklist.

Explanation: This message requires further investigation.

User Response: Contact IBM Technical Support for assistance.

BJTM760G Free failed for report result set rc=return code, rs=reason

Explanation: This message requires further investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM760H Storage exhausted for report view

linklist

Explanation: This message requires further

investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM760I View stack full. Internal error, too

many levels nested.

Explanation: This message requires further

investigation.

User Response: Contact IBM Technical Support for

assistance.

BJTM760J Preferences saved in your profile

dataset

Explanation: None

User Response: None required.

BJTM760K Save failed. Service failed, rc=return

code, rs=reason

Explanation: None

User Response: Make a note of the return code and reason code listed in the message, then contact IBM

Technical Support for assistance.

BJTM760L Report saved in DB2 table.

Explanation: None

User Response: None required.

BJTM760M Invalid exit pref. Exit name is not a valid dialog exit option.

Explanation: You must make a valid entry in the Dialog

Exit field on the preferences screen.

User Response: Type a valid entry in the Dialog Exit

field.

BJTM760N Invalid PREFER command.

Explanation: None

User Response: Use a different command after PREFER or choose a preference option from a pull-down menu.

BJTM760O Request cancelled.

Explanation: None

User Response: None required.

BJTM760P Report has not been saved.

Explanation: You may have indicated that you wanted

to save a report, then decided to cancel the save.

User Response: None required.

BJTM760Q Storage exhausted for new report

nodes.

Explanation: None

User Response: Contact IBM Technical Support for

assistance.

BJTM760R Invalid line command. Try E - Edit, I -

Insert, D - Delete, R -Repeat.

Explanation: You used a line command that does not

work on this screen.

User Response: Type either E (Edit), I (Insert), D

(Delete), or R (Repeat).

BJTM760S Entry(s) deleted. All requested entries

have been deleted.

Explanation: You used the D (Delete) line command next to one or more entries, and they have been deleted.

User Response: None required.

BJTM760T Reports refreshed from data base.

Explanation: You chose the Refresh option.

User Response: None required.

BJTM760U Entry saved in local storage

Explanation: None

User Response: None required.

BJTM760V Invalid exit pref. Exit name is not a

valid level exit option.

Explanation: You made an invalid entry in the Level Exit

field on the Preferences screen.

User Response: Make a valid entry in the Level Exit

field.

BJTM760W Invalid LINK command

Explanation: The LINK command does not work on this

screen.

User Response: Use a different command.

BJTM770A Invalid delete option. Only Prompt or Noprompt allowed.

Explanation: You made an entry in the Delete field on the Preferences screen that is not valid.

User Response: Type Prompt if you want Output Manager to display a pop-up window to confirm the deletion (Prompt) or whether you want Output Manager to automatically perform the deletion (No prompt).

BITM770B Preferences saved in your profile dataset.

Explanation: None

User Response: None required.

BJTM770C Invalid condition specified in the Condition column.

Explanation: You entered a symbol or some other character that is not valid in the Condition column.

User Response: Type either EQ (equal), GT (greater than), GE (greater than or equal to), LT (less than), LE (less than or equal to) or NE (not equal to) in the Condition field.

BITM770D Only Yes or No allowed in contiguous report field.

Explanation: The Contiguous field only accepts Yes or No.

User Response: Type Yes or No to indicate if the pages in the report are contiguous (one right after another).

BITM800A Query failed for custom reports, rc=return code, rs=reason

Explanation: An attempt to query the custom reports table failed.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM800B No reports found that match the requested criteria.

Explanation: None

User Response: Try entering different criteria or no criteria.

BJTM800C Bad report id. Internal error footprint mismatch.

Explanation: This message requires further investigation.

User Response: Contact IBM Technical Support for

assistance.

BITM800D No results found that match the requested criteria.

Explanation: None

User Response: Try entering different criteria or no

criteria.

BITM800E Storage exhausted for reports linklist, rc=return code

Explanation: None

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for

assistance.

BJTM800F Free failed for report result set, rc=return code, rs=reason

Explanation: This message requires further

investigation.

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BITM800G Storage exhausted for view linklist, rc=return code

Explanation: This message requires further investigation.

User Response: Make a note of the return code listed in the message, then contact IBM Technical Support for assistance.

BITM800H Report has not been deleted.

Explanation: You may have used the D (Delete) line command to select a report for deletion, then cancelled the deletion.

User Response: None required.

BITM800I Delete service failed, rc=return code, rs=reason

Explanation: None

User Response: Make a note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM800J Report has been deleted.

Explanation: None

User Response: None required.

BJTM800K Invalid prefer option. Only set is allowed.

anowea.

Explanation: Only the Set Preferences option is valid.

User Response: Choose the Set Preferences option.

BJTM800L Preferences saved in your profile dataset.

Explanation: None

User Response: None required.

BJTM800M No distribution list available to complete print request.

Explanation: In some cases, the completion of a print or reprint request requires a distribution list.

User Response: If you receive this message while attempting to print a custom report, have your report administrator assign a distribution list to the custom report definition, then retry the print or reprint request.

BJTM800N Invalid line command. Try "S" or a valid line command.

Explanation: The line command you entered is not valid on this screen.

User Response: Use the S (Select) line command, or any other line command listed on this screen.

BJTM800O Invalid search option - only RPTNAME, RPTTYPE, or AFTERDA (for "on or after date") allowed.

Explanation: You need to use different search criteria to search for the reports.

User Response: Enter a report name, a report type, or an "After" date for the search criteria.

BJTM800P Request to print report name report in dataset name failed, rc=return code, rs=reason code.

Explanation: The report listed in the message could not be printed.

User Response: Make note of the return code and reason code listed in the message, then contact IBM Technical Support for assistance.

BJTM800Q Report name report in archive dataset name queued for printing in product address space.

Explanation: This message informs that the report listed in the message, which is in the archive listed in the

message, has been queued for printing in a specific address space.

User Response: None required.

BJTM800R View and Print line commands are invalid for report index lines that contain the text <No Report> in the Type column.

Explanation: The <No Report> type indicates that this is an empty report. There were no SYSOUT pages that matched the criteria for this custom report.

User Response: You may want to check the custom report and the application to see if there is a problem with either the report layout or the conditions listed for this custom report.

BJTM800S Internal error - failure copying distribution list data to local storage.

Explanation: For some reason, the distribution list could not be saved.

User Response: Contact IBM Technical Support for assistance.

BJTM800T Invalid report type - specify Basic, Custom Undefined, No reports, or

Explanation: You need to specify the type of report you want to search for or display. Valid types are:

- Basic This archive contains every page of the SYSOUT, the full report.
- Custom -- This archive contains data that met the specific criteria for this custom report, which is usually a subset of the full (basic) report.
- Undefined This archive contains all of the SYSOUT pages that did not match any of the criteria in any of the custom reports.
- No report This is an "empty" report that informs you there were no SYSOUT pages that matched the criteria for this specific custom report.
- All Display all types of reports.

User Response: Type Basic, Custom, Undefined, No report, or All to indicate which type of report you want to search for or display on the screen.

BJTM800U Valid report type specifications are Basic, Custom Undefined, No reports, and All.

Explanation: You need to specify the type of report you want to search for or display. Valid types are:

 Basic - This archive contains every page of the SYSOUT, the full report.

- **Custom** -- This archive contains data that met the specific criteria for this custom report, which is usually a subset of the full (basic) report.
- **Undefined** This archive contains all of the SYSOUT pages that did not match any of the criteria in any of the custom reports.
- **No report** This is an "empty" report that informs you there were no SYSOUT pages that matched the criteria for this specific custom report.
- All Display all types of reports.

User Response: Type Basic, Custom, Undefined, No report, or All to indicate which type of report you want to search for or display on the screen.

BJTM800V Initial preferences saved in your profile dataset.

Explanation: This informs you that your "preference" entries have been saved in your profile.

User Response: None required.

BJTM800W Request cancelled.

Explanation: None

User Response: None required.

BITM800X Report index list refreshed.

Explanation: You chose the "Refresh" option and this message informs you that the refresh process was performed.

User Response: None required.

BITM800Y Search results displayed.

Explanation: None.

User Response: None required.

BITM800Z Incorrect date format specified in the "On or after date" field. Valid input

for this field is either a date formatted as YYYY/MM/DD, or Today, for reports generated since midnight today.

Explanation: The date format you used in this field is not

valid.

User Response: Type a date in the "On or After Date" field, using one of the formats listed in the message.

BJTM801A Incorrect interval specified in the "On or after date" field. When using the "T-nnnn" interval specification, nnnn

must be a numeric value between 0 and 9999.

Explanation: The number you used after the minus sign was larger than 9999.

User Response: Type the letter "T" followed by a minus sign (-) and a number between 0 and 9999 to indicate how many days before today you want to search. For example, "T-14" means "today and the previous 14 days."

BJTM801B Unable to complete print request due to output descriptor allocation failure, rc=return code, rs= reason code.

Explanation: This message requires further investigation.

User Response: Make a note of the return code and reason code listed in the message and contact IBM Technical Support for assistance.

BJTM801C Attempt to free output descriptors **failed**, **rc**=*return code*, **rs**=*reason code*.

Explanation: This message requires further investigation.

User Response: Make a note of the return code and reason code listed in the message and contact IBM Technical Support for assistance.

BITM801D Command disabled for this function.

Explanation: The line command you entered is not valid on this screen.

User Response: Use another line command listed on this screen.

BITM900A Migration status of Yes or No only

Explanation: None

User Response: Type either Yes or No.

BITM900B Initial view can only be Job, Step, Stats, or All

Explanation: The view you tried to use is not valid on this screen.

User Response: Use the VIEW command in combination with either Job, Step, Stats, or All.

BITM900C Initial search can only be Job Name, Migrated, Sysout Class, Generic or All

Explanation: Use one of the search options listed in the message.

User Response: Type either Job Name, Migrated, Sysout Class, Generic, or All.

BJTM900D

Initial preferences saved. Initial in your profile dataset.

Explanation: None

User Response: None required.

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Contrast with. This refers to a term that has an opposed or substantively different meaning.

Synonym for. This indicates that the term has the same meaning as a preferred term, which is defined in its proper place in the dictionary.

Synonym with. This is a backward reference from a defined term to all other terms that have the same meaning.

See. This refers the reader to multiple-word terms that have the same last word.

See also. This refers the reader to terms that have a related, but not synonymous, meaning.

Α

alphabetic character. A letter or other symbol, excluding digits, used in a language. Usually the uppercase and lowercase letters A through Z plus other special symbols (such as \$ and _) allowed by a particular language. See also Alphanumeric Character.

alphanumeric character. Consisting of letters, numbers, and often other symbols such as punctuation marks and mathematical symbols. See also Alphabetic Character.

archive attribute. A set of attributes that IBM Output Manager uses when allocating a sequential file to hold captured SYSOUT. A report administrator creates a set of archive attributes and links them to interceptor and selector rules. When SYSOUT is intercepted or selected, archive attributes define how to name the archive data set that is to be created, where to allocate it, and how much space to reserve for the archive. See also Archive Mask and SMS Allocation Parameters.

archive mask. A template that is used to create the data set name for an archive.

archive storage. The storage in which the long-term or backup copy of a report is maintained. Includes the devices and volumes on which the files are stored and the management policies that determine how long data is maintained in archive storage.

area. A sub-component of a report layout. An area is contained within a page and contains fields. See also Page, Field, and Report Layout.

ASCII (American Standard Code for Information Interchange). The standard code, using a coded character set consisting of 7-bit coded characters (8-bits including parity check), that is used for information interchange among data processing systems, data communication systems, and associated equipment. The ASCII set consists of control characters and graphic characters. (A)

attribute character. A special character used in the body section of a master banner page member that indicates the start and end of symbolic variables and text display information (such as text location and size).

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В

basic report. A report that contains an entire SYSOUT data set and is distributed as a unit. A basic report represents the entire SYSOUT produced by an application.

C

cache storage. The storage in which the primary or shortterm copy of a report is stored. Usually disk storage. Most customers configure the system to maintain the most recent and frequently used versions of reports in cache storage.

captured report. SYSOUT that has been selected or intercepted by IBM Output Manager.

carriage control character. The first character of an output record (line) that is to be printed; it determines how many lines should be skipped before the next line is printed.

CICS. Customer Information Control System. An online transaction management an connectivity system.

concatenate. (1) To link together. (2) To join two character strings.

configuration. The process of describing to a system the devices, optional features, and program products that have been installed so that these features can be used. Contrast with Customization.

configure. To describe to a system the devices, optional features, and licensed programs installed on a system. Contrast with Customize.

customization. The process of describing optional changes to defaults of a software program that is already installed on the system and configured so that it can be used. Contrast with Configuration.

custom report. A subset of a captured report. A custom report is generated when the conditions set forth in the corresponding custom report definition are met. Such conditions are based on the value specified in one or more fields that are part of a report layout. See also Report Layout, Custom Report Definition and Captured Report.

custom report definition. A custom report definition specifies conditions that must be met to create a custom report. When defining a custom report, you specify sets of conditions using the field names defined in the report layout. For a custom report to be created (1) the report layout assigned to the custom report definition must match the one assigned to the report selection rule and (2) the fields listed in the custom report definition must match those listed in the report layout. (3) Optionally, a distribution list can be assigned to a custom report definition so the report is sent to the recipients in the distribution list.

customize. To describe the system, the devices, programs, users, and user defaults for a particular data processing system or network. Contrast with Configure.

D

DASD. Direct Access Storage Device. A storage device for which data access time is independent of the physical location of that data on the storage device.

data set. (1) A named set of records that are stored or processed as a unit. (2) The major unit of data storage and retrieval. A data set consists of a collection of data in one of several prescribed arrangements and described by control information to which the operating system has

distribution list. A group of recipients that are linked to a custom report definition and control the real time, reprint, or reprint with distribution functions. See also Recipient.

Ε

EBCDIC. Extended Binary-Coded Decimal Interchange Code. This is the default type of data encoding in an MVS environment. Contrast with ASCII.

field. A sub-component of a report layout. A field is contained within an area which, in turn, is contained within a page. See also Page, Area, and Report Layout.

file. Synonym for Data Set.

Н

HSM. Hierarchical Storage Management. HSM is a form of file management (backup and archiving) that enables efficient use of storage devices.

index. A process of segmenting a print file into uniquely identifiable groups of pages (a named collection of sequential pages) for later retrieval.

input file. A file opened in order to allow records to be read.

install. (1) To add a program, program option, or software program to the system in a manner such that it may be executed and will interact properly with all affected programs in the system. (2) To connect a piece of hardware to the processor.

interceptor rule. A rule that (1) specifies the criteria by which SYSOUT is captured prior to its reaching the spool and (2) define what to do with captured SYSOUT, such as what to do with the SYSOUT when it is archived.

JCL. Job Control Language. A control language that specifies a job and its requirements to the operating system.

JES. Job Entry Subsystem. JES is a facility of the OS/390 and MVS operating systems that manages jobs (units of work) that the system executes. There are two versions of JES, JES2 and JES3.

layout. Synonym for Report Layout.

local printing. A printing option that enables a user to print a custom report for their own use.

page. (1) A collection of data that can be printed on one side of a sheet of paper or a form. (2) The boundary for determining the limits of printing. (3) Part of an AFP document bracketed by a pair of Begin Page and End Page structured fields. (4) A sub-component of a report layout. A report administrator defines a page for each unique style of page in a SYSOUT. Pages contain areas. See also Report Layout and Area.

page definition. A resource that defines the rules of transforming line data into composed pages and text controls.

parameter. Information that the user supplies to a panel, command, or function.

partitioned data set. A data set in direct access storage that is divided into partitions, called members, each of which can contain a program, a part of a program, or data.

print file. (1) The output of a user-defined program that is to be indexed and loaded into the system. (2) A file that a user wants to print.

print job. A series of print files scheduled for printing. At print submission time, the user can request one or more files to be printed; therefore, a print job consists of one or more print files.

print override. The printing option that enables a user to temporarily override printer information and direct printout to a different printer.

print queue. A file containing a list of the names of files waiting to be printed.

Print Services Facility (PSF). An IBM print subsystem that drives IPDS page printers. When printing line data, PSF supports external formatting using page definitions and form definitions. This external formatting extends page printer functions such as electronic forms and use of typographic fonts without any change to applications that generate the data.

print spooler. The print spooler directs the printing of data from different applications. It temporarily stores information in separate files until they are printed.

printer attributes. A set of attributes including information about general printing attributes, PSFrelated attributes, and attributes associated with printing on a 3800 series printer.

Printer Control Language (PCL). The data stream used by Hewlett-Packard LaserJet II and III and other compatible printers.

Q

QSAM. Queued Sequential Access Method.

queue. (1) A line or list formed by items waiting to be processed. (2) To form or arrange in a queue.

R

RACF (Resource Access Control Facility). A program providing security facilities to protect archive data and forms where specified.

real-time printing. A category of printing for which a hard copy is produced for each recipient in the distribution list associated with a custom report. Realtime printing occurs at the time the SYSOUT is processed by IBM Output Manager to create the virtual custom reports.

recipient. Information about an individual or generic location such as name, address, building, printer destination, SYSOUT class, or USERID. See also Distribution List.

report. A print data stream produced by a user-defined program or other software program that can contain hundreds or thousands of pages of related information. Most reports can be logically divided and indexed into single and multiple page objects called documents.

report layout. In IBM Output Manager, a report layout is the way of describing how an original report looks as produced by an application. A report layout has three sub-components: pages, areas, and fields, where pages contain areas, areas contain fields, and fields are specific data on a report. See also Page, Area, and Field.

report name. A tag or label selected by users to identify their reports to other users.

report owner. The person responsible for controlling access to usage and validating data in a report.

report selection rule. A rule that (1) specifies the criteria (such as the job, proc, program, DD name and step) against which captured reports are matched to determine if they should be processed into basic reports and (2) identifies the report layout, that if used by a custom report definition, initiates the creation of a custom report from a basic report. See also Basic Report.

report user. A person who has a need to access report data.

reprint distribution. A printing option available to report administrators that enables them to print a custom report again while also temporarily altering the distribution list.

reprinting. A printing option available to report administrators that enables them to print a custom report routing. The assignment of the path by which a message will reach its destination.

S

selector definition. A rule that (1) specifies the criteria by which specific output types are selected directly off the spool and (2) defines what to do with captured output, such as what to do with the output when it is archived.

SMS allocation parameters. Definition

SYSOUT. A system output stream used as an indicator in data definition statements to specify that a data set is to be written to a system output unit.

System Managed Storage (SMS). An environment that allows data center applications that use DASD devices to work independently of the physical characteristics of the devices.

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Output Manager for z/OS User's Guide Version 1 Release 1

Publication No. SC18-7251-00

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