



AP-JournalTM

**The Database Modification
Component**

Software Version: 8.5

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Computer Model	
Serial Number	
Authorization Code	





About This Manual

Who Should Read This Manual

This manual is intended for system administrators and security administrators responsible for the implementation and management of security on System i systems.

Terminology

This manual attempts to adhere to standard IBM System i (AS/400) terminology and conventions whenever possible. However, deviations from IBM standards are employed in certain circumstances in order to enhance clarity or when standard IBM terminology conflicts with generally accepted industry conventions.

Documentation Overview

Raz-Lee Security takes customer satisfaction seriously. Therefore, our products are designed for ease of use. The documentation package includes a variety of materials to get you up to speed with this software quickly and effectively.

Printed Materials

This user guide is the only printed documentation necessary for understanding this product. It is available in user-friendly PDF format and may be displayed or printed using Adobe Acrobat Reader version 6.0 or higher.

This manual contains concise explanations of the various product features as well as step-by-step instructions for using and configuring the product.

Typography Conventions

This document is intended to be printed by the end user and viewed on-line using a variety of different PC platforms. Accordingly, it was written using standard Windows TrueType fonts that are installed on virtually all systems. You do not need to install any special fonts in order to view or print this document.

- Body text appears in 10-point Times New Roman.
- Menu options, field names, and function key names appear in **Arial Bold**.
- IBM i (OS/400) commands, system values, data strings, and so on appear in ***Bold Italic***.
- Key combinations are separated by a dash, for example: **Shift-Tab**.
- Referrals to chapters or procedures appear in *Times New Roman Italic*.



New Features



New Features

AP-Journal 8.50:

1. When adding a journal, the Program Library, and the IP address are added and you can start a new receiver.
2. You can now define that journal output is either an application or a report (see [Chapter 4: Work with Business Analysis](#) on page **52** for more details).

AP-Journal 8.43:

1. The journal collect job now works under the SECURITY4P user profile.

AP-Journal 8.38:

1. You can now customize the output format for *CSV files (see [Customize *CSV Output Fields](#) on page **149** for more details).

AP-Journal 8.37:

1. When creating a journaled application, IASP support is now available.

AP-Journal 8.36:

1. There is now a colored indicator for applications working in "as only operation" mode.
2. Help is now available to explain the PGM/NPGM tests for alerts.

AP-Journal 8.34:

1. New option to display all DB-Journals (see [Work with Database Journals](#) on page **126** for more details).
2. Display file updates, in list format; the output is displayed using the standard product interface without needing to know the journal name (see [File Journal Lists](#) on page **129** for more details).
3. Display file updates, in detail format; the output is displayed using the standard product interface without needing to know the journal name (see [File Journal Details](#) on page **131** for more details).
4. New feature: Work with object Journaling plan (see [Plan Object Journaling](#) on page **92** for more details).
5. New feature: Work with object Journaling status by library, providing a wizard to set as plan (see [Check Object Journaling](#) on page **98** for more details).



6. New feature: Set Journal as planned by object (see [Set Journal As Planned](#) on page **98** for more details).
7. New option: Display Action Log in data queue format
8. Support all field types when working with internally described (S/36) file support
9. When working with application authorizations, set user's authority by journal or by product application (see [Allow applications to users](#) on page **78** for more details).
10. Groups and Items, now shipped with product groups *SPCAUT *LMTCPB (see [Groups and Items](#) on page **116** for more details).
11. New option: Time Groups (see [Time Groups](#) on page **120** for more details).
12. Delete Statistics Data (see [Delete Statistics Data](#) on page **148** for more details).



Introducing AP-Journal



Chapter 1: Introducing AP-Journal

Overview

System i applications are based upon databases which include multiple tables. Each of these tables includes items of information that are used by one or more sub-applications. Any changes made to tables are logged by a process known as journaling. During a journal operation, changed information from a table is sent to a journal receiver. The journal receiver usually includes journaled information as well as journal meta-data that includes, for example, the name of the user who performed the change, the name of the changed file, the date and time of change, the data image before and after the change, and so on.

Another way of looking at this is that System i user applications are usually based upon sub-applications appropriate for different groups of users. The various sub-applications many times use different data structures and sometimes one item of information can be represented in different ways in different tables. For example, the names of the fields that represent an account number, indeed even the length or data format of these fields and their location can differ from one table to another.

Let's assume that a hospital uses one application to keep track of surgical proceedings executed by its staff, a second application to keep track of the prescriptions written by its staff and a third application to keep track of the patients being examined by its staff. The information relating to each application is stored in a different table, and different journal receivers store journaled information generated by the different applications.

Therefore, if a manager wishes to determine the activities of a certain staff member on a certain day (participated in a surgical procedure, dispensed prescriptions and examined a number of patients), the manager will have to manually combine information from different applications.

The AP-Journal Solution

AP-Journal automatically manages database changes by documenting and reporting exceptions made to the database journal. This cutting-edge security solution provides expert field-tracking and monitoring. **AP-Journal** is a valuable tool for Sarbanes-Oxley compliance and other auditing regulations.

Until now, database management has lacked the proper tools to monitor data modification down to the field level. This product offers a streamlined, easy-to-use solution. With **AP-Journal**, every field is tracked and monitored so that a trigger may be initiated if, for example, the amount of a bank loan has been modified by more than 20%. **AP-Journal** also provides tools and analysis capabilities to compare the changed data values and results with the previous data.

How AP-Journal Works



How AP-Journal Works

AP-Journal generates a control data structure representing multiple items of information that were journaled, from a group of tables to a group of journal receivers. **AP-Journal**'s journal data structure easily associates between different table representations for any particular item of information. **AP-Journal** also receives requests to retrieve journaled information items as necessary.

AP-Journal is fed by the IBM receiver, therefore it is enough to install AP-Journal in the machine where the receiver is located.

There is one point that has to be considered, an image of the running application database has to be defined in the remote system, in order to be able to retrieve into the application the file/field names. That image can be of course, empty files. Once this is done, **AP-Journal** can retrieve the information from the remote journal receiver that is located "locally".

Figure 1 compares the direct, IBM, approach to reporting on data base changes recorded in journal receivers with AP-Journal's container-based approach.

In comparison with using journal receivers, AP-Journal:

- saves disk space
- simplifies management of journal receivers
- reduces I/O and CPU time when retrieving data
- provides real-time e-mail or message alerts based upon changes to field values

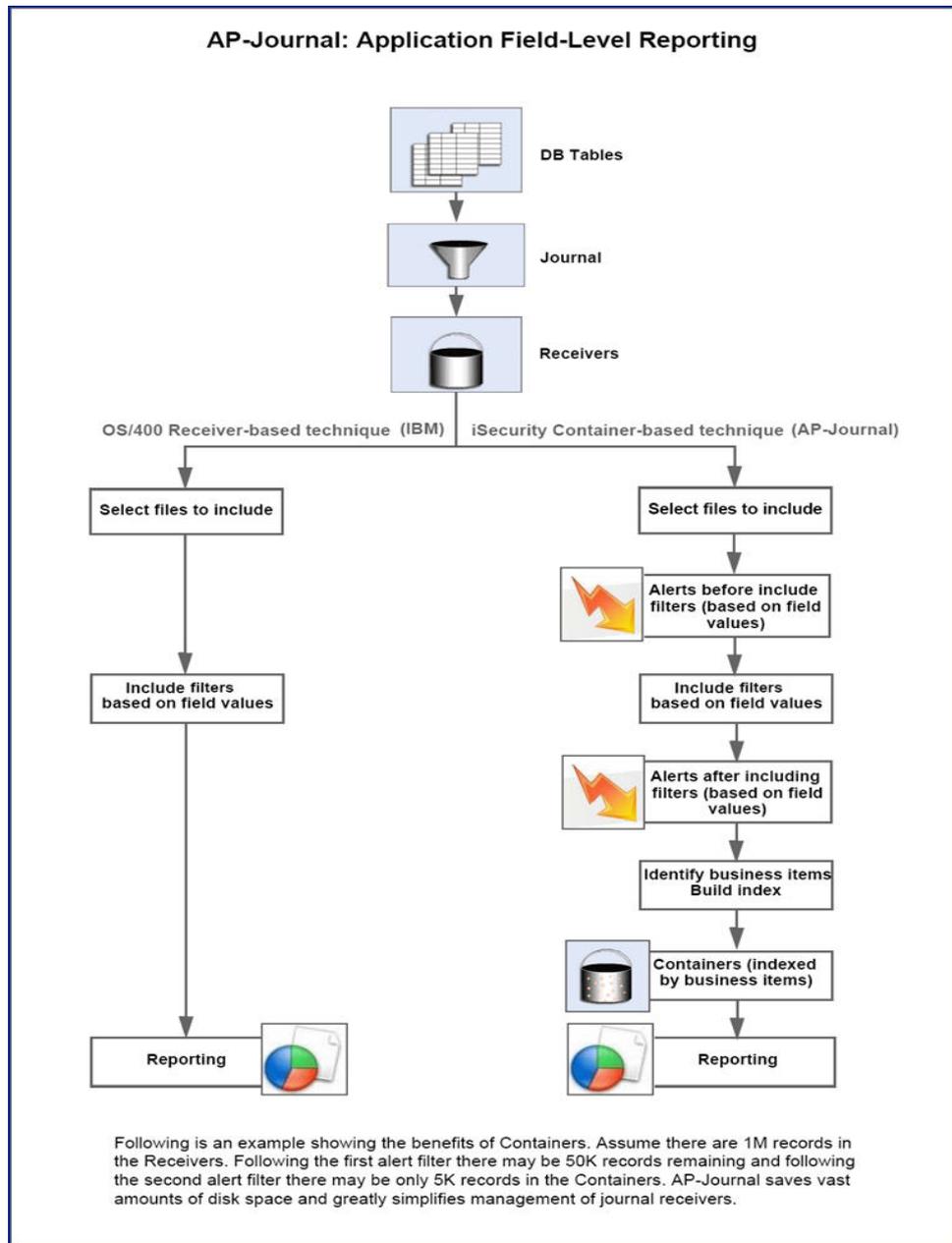


Figure 1



AP-Journal Reports

AP-Journal's reports specify not only the changes in data but also who made the changes, at what time, from which application, and more. Journalized data from several files can be cross-referenced by referral to joint information in all relevant files; that is, fields from different files can be identified as containing the same logical information (item number, loan ID, patient identifier, and so on). With this feature it is possible to obtain the history of a transaction by referring to the same ID across many files. Information accumulated over many years can be accessed in near real time mode. Data retrieval is simple and is defined in accordance with user needs. **AP-Journal** provides users more control than ever before over the flow of information within the organization.

AP-Journal and iSecurity

AP-Journal is a valuable addition in industries such as finance, health-care, commerce, insurance, military, and others. As part of Raz-Lee's **iSecurity** suite, **AP-Journal** offers you top functionality, ease-of-use, and tomorrow's technology today.

Native IBM i (OS/400) Text Based User Interface

AP-Journal is designed to be a user-friendly product. The user interface follows standard System i CUA conventions. All product features are available via the menus, so you are never required to memorize arcane commands.

Many features are also accessible via the command line, for the convenience of experienced users.

Menus

Product menus allow easy access to all features with a minimum of keystrokes. Menu option numbering and terminology is consistent throughout this product and with other Raz-Lee products. To select a menu option, simply type the option number and press **Enter**. The command line is available from nearly all product menus. If the command line does not appear (and your user profile allows use of the command line), press **F10** to display it.

Data Entry Screens

Data entry screens include many convenient features such as:

- Pop-up selection windows
- Convenient option prompts
- Easy-to-read descriptions and explanatory text for all parameters and options
- Search and filtering with generic text support

The following describes the various data entry screens.

- To enter data in a field, type the desired text and then press **Enter** or **Field Exit**
- To view options for a data field together with an explanation, press **F4**
- To accept the data displayed on the screen and continue, press **Enter**

Start working with AP-Journal



The following function keys may appear on data entry screens:

Function Key	Description
F1 - Help	Display context-sensitive help
F3 - Exit	End the current task and return to the screen or menu from which the task was initiated
F4 - Prompt	Display a list of valid options for the current field or command. For certain data items, a pop-up selection window appears
F6 - Add New	Create a new record or data item
F8 - Print	Print the current report or data item
F9 - Retrieve	Retrieve the previously-entered command
F12 - Cancel	Return to the previous screen or menu without updating

Start working with AP-Journal

To start **AP-Journal**, type the **STRJR** command at the command line. The **AP-Journal** main menu appears.

```

JRMAIN                               Application Journal           iSecurity/Journal
                                     System: S520
                                     *Patent-Pending*

Select one of the following:

Analysis                               Review DB changes
 1. Regulation Compliance              51. Work with DB-Journals
   Report updates of files             52. Display File Journal-List
 2. Analyze from Receivers             53. Display File Journal-Details
   Report activities from receivers
 3. Analyze from Containers            Demo environment
   Report business activities from      71. Work with Demo
   pre-filtered data

Definitions                             Maintenance
11. Applications, BizAlerts etc.       81. System Configuration
12. Reports, Scheduler etc.           82. Maintenance Menu

Selection or command
===> █

F3=Exit F4=Prompt F9=Retrieve F12=Cancel
F13=Information Assistant F16=AS/400 main menu
    
```

AP-Journal Main Menu



System Configuration

1. To begin the process of system configuration, select **81. System Configuration** from the **AP-Journal** main menu. The **System Configuration** menu appears.

```
iSecurity/Journal System Configuration 14/07/15 14:26:28

Select one of the following:

Journal
  1. General Definitions

Action
  11. General Definitions
  12. SMS Definitions

Security Event Manager (SEM)
  21. Syslog Definitions
  22. SNMP Definitions
  23. Twitter Definitions

                                General
                                91. Language Support
                                99. Copyright Notice

Selection ==> █

Release ID . . . . . 08.47 15-06-17 44DE466 520 7459
Authorization code . . . . . ██████████ 1 S520

F3=Exit  F22=Enter Authorization Code
```

System Configuration menu

2. Press **F22** to enter the authorization code.

Start working with AP-Journal



3. Select **1. General Definitions** to define the general preferences of the file appearance. The **Define Journal global defaults** screen appears.

```

Define Journal global defaults 18/02/14 13:42:37

General
Marker of changed field . . . . . >>>
Field name-Value separator . . . . . =
Field-Field separator . . . . . ; Do not use % or &

Performance statistics . . . . . 1 1=Standard, 2=Extended
Updates occur every 1 minute. 2=Extended collects it in SMZJDTA/AUINFT.

File fields override program . . . NONE Name, *JDE, *NONE
Library . . . . .
See explanations and example program is SMZJ/JRSOURCE JRFFDUSRR

Use *JDE to enable JDE Data Dictionary support.

F3=Exit F12=Cancel
    
```

Define Journal global defaults

Option	Description
Marker of changed field	The character you want to use to indicate changed fields.
Field name-value separator	The character you want to use to separate the field name from its value.
Field-Field separator	The character you want to use to separate one field from another. You should not use % or &.
Performance statistics	1=Standard 2=Extended The updates occur every 60 seconds. Extended performances are collected in <i>SMZJDTA/AUINFT</i> .
File fields override program and library	You can use a program to replace the TEXT of the fields, or even provide a non DDS record structure. An example program source is available at <i>SMZJ/JRSOURCE JRFFDUSRR</i> . If you want to enable JDE Data Dictionary support, enter *JDE .



4. Enter your required parameters and then press **Enter** to confirm.
5. Select **13. E-Mail Definitions** to set E-mail definitions.

```

E-mail Definitions                                     27/03/08 22:17:57

Type options, press Enter.

E-mail Method . . . . . 1                      1=Advanced, 2=Native, 9=None
Advanced mode is recommended for simplicity and performance.

Advanced E-mail Support
Mail (SMTP) server name . . . . . mail.bezeqint.net
                                                    Mail server, *LOCALHOST
Use the Mail Server as defined for outgoing mail in MS Outlook.

Native E-mail
E-mail User ID and Address . . . . . _____
User Profile . . . . . _____
Users must be defined as E-mail users prior to using this screen.
The required parameters may be found by using the WRKDIRE command.
This option does not support attached files.

F3=Exit   F12=Cancel
    
```

E-mail Definitions

Option	Description
E-mail Method	<p>1=Advanced 2=Native 3=Secured 9=None</p> <p>The Advanced or Secured mode is recommended for simplicity and performance reasons.</p> <p>If using 2=native, Users must be defined as E-mail users prior to using this screen. The required parameters may be found by using the WRKDIRE command. This option does not support attached files.</p>
Mail (SMTP) server name	The name of the STMP server or *LOCALHOST
Reply to mail address	The e-mail address to receive replies.

Start working with AP-Journal



Option	Description
E-mail user and password	If you chose 1 = Advanced or 3=Secured for the E-mail method, enter the email user that will be used to send the emails and the password of that user
E-mail User ID and Address	If you chose 2=Native for the E-mail method, enter the user ID and address that will be used to send the emails.
User Profile	If you chose 2=Native for the E-mail method, enter the user profile that will be used to send the emails.

6. Enter your required parameters and then press **Enter** to confirm.

Other iSecurity Products



Other iSecurity Products

Raz-Lee's **iSecurity** is an integrated, state-of-the-art, security solution for all System i systems, providing cutting-edge tools for managing all aspects of network access, data, and audit security. Its individual components work together transparently, providing comprehensive “out-of-the-box” security.

Other **iSecurity** products include:



Assessment

Assessment checks your ports, sign-on attributes, user privileges, passwords, terminals, and more. Results are instantly provided, with a score of your current network security status with its present policy compared to the network if iSecurity were in place.



Firewall

Firewall protects and secures all types of access, to and from the System i, within or outside the organization, under all types of communication protocols. **Firewall** manages user profile status, secures entry via pre-defined entry points, and profiles activity by time. Its Best Fit algorithm determines the validity of any security-related action, hence significantly decreasing system burden while not compromising security.



Audit

Audit is a security auditing solution that monitors System i events in real-time. It includes a powerful query generator plus a large number of predefined reports. Audit can also trigger customized responses to security threats by means of the integrated script processor contained in **Action**.



Action

Action automatically intercepts and responds to security breaches, system activity events, QHST contents, and other message queues. Inquiring messages can be automatically answered. Alerts are sent by e-mail, SMS, pagers, or the message queues. Command scripts with replacement variables perform customized corrective actions, such as terminating a user session or disabling a user profile.

Other iSecurity Products



Capture

Capture silently captures and documents user screens for tracking and monitoring, without any effects on system performance. It also preserves job logs for subsequent review. **capture** can run in playback mode and can be used to search within texts.



View

View is a unique, patent-pending, field-level solution that hides sensitive fields and records from restricted users. This innovative solution hides credit card numbers, customer names, and so on. Restricted users see asterisks or zeros instead of real values. **View** requires no change in existing applications. It works for both SQL and traditional I/O.



Anti-Virus

Anti-Virus provides solid virus protection that prevents your System i from becoming an infection source. **Anti-Virus** automatically scans and examines all incoming IFS files, validating and checking them as they are enrolled or modified. **Anti-Virus** authenticates them, and finally quarantines or erases infected files.



Screen

Screen protects unattended terminals and PC workstations from unauthorized use. It provides adjustable, terminal- and user-specific time-out capabilities.



Password

Password provides a first-tier wall of defense for users by ensuring that user passwords cannot be easily cracked and guessed.



Visualizer

Visualizer is an advanced DWH statistical tool with state-of-the-art technology. This solution provides security-related data analysis in GUI and operates on summarized files; hence, it gives immediate answers regardless of the amount of security data being accumulated.

Working with Single File



Chapter 2: Working with single files

Regulation Compliance

AP-Journal's reports specify the changes in data but also who made the changes, at what time, from which application, and more. With this feature it is possible to obtain the history of a transaction by referring to the same ID across many files. Information accumulated over the years can be accessed in near real time mode.

To view changes that were done on a single file:

Setting Single File Definitions

Ensure that you have defined the outputs for the file as described in [Output Fields per File](#) on page 84.

Journal Analysis

To view the changes on a single file

1. Select **1. Regulation Compliance** from the **Application Journal** main menu. The **Regulation Compliance** menu appears.
2. Select **1. Display File Updates** from the **Regulation Compliance** menu. The **Display DB Journal** screen appears.

```

Display DB Journal (DSPDBJRN)

Type choices, press Enter.

File . . . . . █ Name
Library . . . . . *LIBL Name, *LIBL, *CURLIB
Display last minutes . . . . . *BYTIME Number, *BYTIME
Starting date and time:
Starting date . . . . . *CURRENT Date, *CURRENT, *YESTERDAY...
Starting time . . . . . 000000 Time
Ending date and time:
Ending date . . . . . *CURRENT Date, *CURRENT, *YESTERDAY...
Ending time . . . . . 235959 Time
User profile . . . . . *ALL Name, *ALL
Program name . . . . . *ALL Name, *ALL
Job name . . . . . *ALL Name, *ALL
User . . . . . Name
Number . . . . . 000000-999999
Number of records to process . . *NOMAX Number, *NOMAX
Output . . . . . * *, *PRINT

Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
    
```

Display DB Journal



Option	Description
File	Name of file to display
Library	Name of library to display
Display last minutes	Last N minutes to display
Starting/Ending date and time	Select only those records occurring within the range specified by the starting and ending time specified below *CURRENT = The current date (day the report runs) *YESTERDAY = The day before the current date *WEEKSTR = Beginning of the current week *PRWEEKSTR = Beginning of the previous week *MONTHSTR = Beginning of the current month *PRVMONTHSTR = Beginning of the previous month *YEARSTR = Beginning of the current year *PRVYEARSTR = Beginning of the previous year *MON - *SUN = Day of the current (or previous) week
User Profile	User profile who updated the file.
Program name	Name of the program used to change the file's information
Job name	Name of the job that changed the file's information
Number of records to process	Insert a number or *NOMAX
Output	*PRINT - to print * - to display only
Output format	*STD= Standard *EXT= Extended information (like the name of the program used to do the changes)



3. Type the file and library name, set criteria and press **Enter**.
4. The **Display Database Updates** screen appears, showing the information of the requested file before and after the changes. The fields that were changed will appear in purple.

```

Display Database Updates                                RRN: 7

Job . . . . .: QPADEV0004/JR/674284                File . . . . : CUSTOMER
Date-Time . . : 2008-03-20-09.51.30              Library . . . : ADTSLAB
User . . . . .: JR                                Member . . . : CUSTOMER
Program . . . .: IOSLCALLC                        IP address : 1.1.1.151

Field/Text  After                                     Before
CUSTNA      Baker Electronics Company                Baker Electronics Company
REPNO       16445                                     15445
CONTAC      Dave Matthison                          Dave Matthison
CPHONE      818-715-2045                             818-715-2045
CFAX        818-715-2045                             818-715-2045
CADDR       17150 Koll Center, Parkway                17150 Koll Center, Parkway
CCITY       Pasadena, CA                               Pasadena, CA
CCOUNT      USA.                                    USA.
CUSTNO      0010800                                0010800

F3=Exit  F7=Subset  F8=Print  F11=Field/Text  F12=Cancel  Bottom
F17=Top
    
```

Display Database Updates



5. Press **F11** for more fields information

```

Display Database Updates                                RRN: 7
Job . . . . .: QPADEV0004/JR/674284                File . . . .: CUSTOMER
Date-Time . .: 2008-03-20-09.51.30                Library . .: ADTSLAB
User . . . . .: JR                                Member . .: CUSTOMER
Program . . .: IOSLCALLC                          IP address : 1.1.1.151

Field/Text  After                                     Before
Company name
CUSTNA      Baker Electronics Company              Baker Electronics Company
Rep identifier
REPNO       16445                                  15445
Name
CONTAC      Dave Matthison                        Dave Matthison
Telephone
CPHONE      818-715-2045                                818-715-2045
Fax
CFAX        818-715-2045                                818-715-2045
More...

F3=Exit  F7=Subset  F8=Print  F11=Field/Text  F12=Cancel
F17=Top
    
```

Display Database Updates - F11

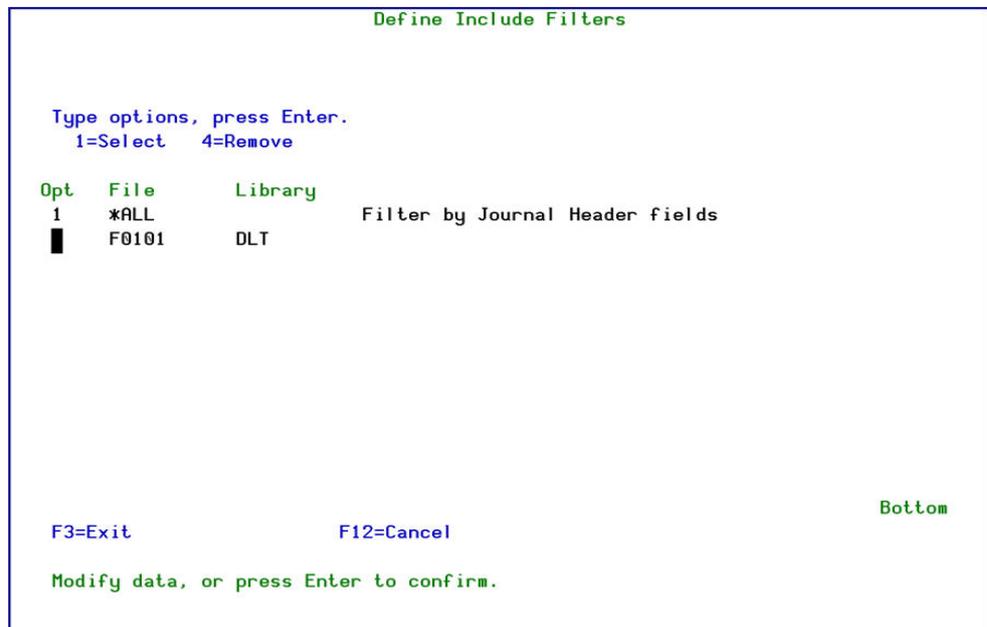
Field	Description
Job	Name of the job that changed the file's information
Date-Time	Date and time of the update
User	User profile name
Program	Name of the program used to change the file's information
File	The updated file
Library	Library's name
Member	The updated member
IP Address	The IP address that the change was set from. From V5R3 and higher.
F7=Subset	Search the file for specific information All = Filter according to the fields title File name = Filter according to the fields name



Field	Description
F8=Print	Print from the current position or from the beginning of the set, and select how many records to print.
F11=Field/Text	Display the field's descriptive text

Subset

1. Press **F7=Subset** to filter the results. The **Define Include Filters** screen appears.



Define Include Filters



2. Type **1** to select ***ALL** or the file's name to filter according to the fields name. The **Filter Conditions** screen appears, allows to set filter for the results by header.

```

Filter Conditions

Filter Conditions by Header

Type conditions, press Enter.
Tests: EQ NE LE GE LT GT LIST NLIST LIKE NLIKE START DIF DIFxx DIF%xx
And For LIKE, use % as "any string" For DIF, xx is EQ NE LT...
Or
Field Test Value
Entry Type (DL, UP, PT) █
0 Name of User
0 Number of Job
0 User Profile
0 Name of Program
0 Program Library
0 Name of Object
0 Objects Library
0 Name of Member
0 Remote Address
0 Remote Port
0 Name of Job
More...

F3=Exit F6=Insert F12=Cancel
    
```

Filter Conditions by Header

Option	Description
And/Or	Select A=And/O=or operators to display All or Any of the conditions

Printing the file changes



Option	Description
Test	EQ=Equal NE=Not Equal LE=Less Equal GE=Greater Equal LT=Less Than GT=Greater Than LIST=on the List NLIST=Not on the List LIKE=a pattern (ONLY for character field) NLIKE=Not a pattern (ONLY for character field) START=a pattern that Starts with (ONLY for character field) DIF=the update is Different from DIFxx=the update is Different from xx=EQ/NE/LE... <i>(should only be used on a numeric field and computes the numeric difference between the before and after contents of the field.)</i> DIF%xx=the update is N % Differently xx=EQ/NE/LE... <i>(for numeric field only)</i>
F6=Insert	Insert a another row to add more filter conditions for the same field

Printing the file changes

1. Select **1. Regulation Compliance** from the **Application Journal** main menu. The **Regulation Compliance** menu appears.

Printing the file changes



- Select **2. Print File Updates** from the **Regulation Compliance** menu. The **Display File Journal** screen appears.

```

Display File Journal (DSPDBJRN)

Type choices, press Enter.

File . . . . . █ Name
Library . . . . . *LIBL Name, *LIBL, *CURLIB
                                     *LIBL
Display last minutes . . . . . *BYTIME Number, *BYTIME
Starting date and time:
Starting date . . . . . *CURRENT Date, *CURRENT, *YESTERDAY...
Starting time . . . . . 000000 Time
Ending date and time:
Ending date . . . . . *CURRENT Date, *CURRENT, *YESTERDAY...
Ending time . . . . . 235959 Time
User profile . . . . . *ALL Name, *ALL
Program name . . . . . *ALL Name, *ALL
Job name . . . . . *ALL Name, *ALL
User . . . . . Name
Number . . . . . 000000-999999

More...

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Display File Journal

Option	Description
File	Name of file to display
Library	Name of library to display
Display last minutes	Last N minutes to display
Starting/Ending date and time	Select only those records occurring within the range specified by the starting and ending time specified below *CURRENT = The current date (day the report runs) *YESTERDAY = The day before the current date *WEEKSTR = Beginning of the current week *PRVWEEKSTR = Beginning of the previous week *MONTHSTR = Beginning of the current month *PRVMONTHSTR = Beginning of the previous month *YEARSTR = Beginning of the current year *PRVYEARSTR = Beginning of the previous year *MON - *SUN = Day of the current (or previous) week
User Profile	User profile who updated the file.

Printing the file changes



Option	Description
Program name	Name of the program used to change the file's information
Job name	Name of the job that changed the file's information
Number of records to process	Insert a number or *NOMAX
Output	*PRINT - to print * - to display only
Output format	*STD = Standard *EXT = Extended information (like the name of the program used to do the changes)

NOTE: At the output print next to the fields that were changed, a special mark will appear. This can be modified from option **81. System Configuration** off the main menu: **Marker of changed field**

Retrieving Data-Base Journal

Select **9** to retrieve updates data from single file to a separate Journal file. With this option a set of changes and updates can be created. An output file will built from the fields of the journal's headers and the files records' fields.

```

Retrieve Data-Base Journal (RTVDBJRN)

Type choices, press Enter.

File . . . . . █ _____ Name
Library . . . . . _____ *LIBL Name, *LIBL
Member name . . . . . *ALL _____ Name, *FIRST, *ALL
File to receive output . . . . . *TEMP _____ Name, *FILE, *TEMP
Library . . . . . QTEMP _____ Name, *LIBL

Output member options:
Member to receive output . . . *FIRST _____ Name, *FIRST
Replace or add records . . . *REPLACE _____ *REPLACE, *ADD
Journal . . . . . *CURRENT _____ Name, generic*, *CURRENT, *ALL
Library . . . . . _____ Name, *LIBL, *CURLIB

Range of journal receivers:
Starting journal receiver . . *CURRENT _____ Name, *CURRENT, *CURCHAIN
Library . . . . . _____ Name, *LIBL, *CURLIB
Ending journal receiver . . . _____ Name, *CURRENT
Library . . . . . _____ Name, *LIBL, *CURLIB

More...

F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
    
```

Retrieve Data-Base Journal



Groups and Items

Define assorted groups of reports in line with your requirements, to schedule a particular group of reports to run as one unit sometime in the future.

%GROUP is used for defining a group of user-profiles that all share the same authorities.

This solution enables defining GROUPS by GROUP-TYPES. These GROUP-TYPES can be any system entity such as files, libraries, applications, identification numbers, and so on.

For each GROUP-TYPE, you can define an unlimited number of GROUPS and within GROUPS any number of items. For example, all identification numbers of the PCs in the organization can be defined as one group in the GROUP-TYPE defined as MACHINE_ADDRESS. Another group in MACHINE_ADDRESS may contain all identification numbers of the PCs in a sister organization.

In all comparison tables, for defining rules, for generating and selecting queries, or for defining the items in reports, the ITEM GROUP-TYPE/GROUP syntax can be used to include only those transactions which contain the GROUP-TYPE/GROUP specified. Likewise, NITEM GROUP-TYPE/GROUP can be used to include only those transactions which do not contain the GROUP-TYPE/GROUP defined.

In addition, special GROUPS such as groups of users already defined on the system, all of which have a common identifying characteristic. For example, the group profile of the system, group profiles defined in Firewall, and virtual groups of users named *SECADM, *SAVESYS and so on which are the users who have this particular privilege defined in their special authority.

1. Do one of the following:
 - Select **1. Regulation Compliance** from the **Application Journal** main menu. The **Regulation Compliance** menu appears.
 - Select **2. Analyze from Receivers** from the **Application Journal** main menu. The **Business Analysis** menu appears.
 - Select **3. Analyze from Containers** from the **Application Journal** main menu. The **Business Analysis** menu appears.

Groups and Items



2. Select **35. Groups and Items** from the chosen menu. The **Work with Classes of Groups** screen appears.

```
JRWRPT                               Reporting, Scheduler etc.                               iSecurity/Journa
:
:                                     Work with Classes of Groups                                     :
:
: Type options, press Enter.           Position to . . . _____ :
: 1=Work with 2=Edit 4=Remove         Subset . . . . . _____ :
:
: Opt Class      Description                               Item Length :
: *GRPPRF       User is included in Group/Supplemental profile 10 :
: *LMTCPB       User Limit Capabilities                      10 :
: *SPCAUT       User has a Special Authority                  10 :
: *TIMEGRP      Date & Time is within Time Group              10 :
: *USRGRP       User is included in iSecurity/Firewall Group  10 :
: - COMMANDS    Classes of commands                           10 :
: - IPADDR      IP addresses groups                            15 :
: - LIBRARIES   Groups of libraries                            10 :
: - PROGRAMS    Production                                    20 :
:                                                         More... :
: *CLASSES are automatically defined by the system. Press F6 for instructions :
: F3=Exit  F6=Add New (plus instructions)  F8=Print  F12=Cancel :
:
:-----:
F13=Information Assistant  F16=AS/400 main menu
```

Work with Classes of Groups

Analyze Business



Chapter 3: Analyze Business

To view changes that were done on a single file, follow this procedure:

Analyze Business

1. Select **2. Analyze from Receivers** or **3. Analyze from Containers** from the **Application Journal** main menu. The **Business Analysis** menu appears.

```

JRASET                               Business Analysis                       iSecurity/Journal
                                        System: S520
                                        *Patent-Pending*

Select one of the following:

Business Analysis Journal Receivers    Reports
1. Display list of updates              41. Reports
2. Display updates                      45. Work with Report Scheduler
3. Display Journal (by journal name)    46. Run a Report Group
5. Print updates
6. Print updates (extended info)        Use options 1-7 to run Reports
7. Print Journal (by journal name)      over Journal Receivers.

Definitions
35. Groups and Items

The above options are based upon Journal Receivers.
Business Analysis requires a report definition (option 41).

Selection or command
===> █

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F13=Information Assistant  F16=AS/400 main menu
    
```

Business Analysis Menu



2. Select **41. Reports**. The **Work with Reports** screen appears.

```

Work with Reports

Type options, press Enter.
 1=Modify 3=Copy as report 4=Delete 5=Run (Receivers) 6=Run (Containers)
 7=Filters

                                     Position to . ____
                                     Subset . . . ____

Opt Name  Journal  Enabled  App
█ @AAA1  FSJRN    Y
- DSALE  JRN1     Y Demo application for sale
- DSALE  JRN1     Y Demo application for sale (report #1)
- PROVA  JRDEMO
- RSALE  JRDEMO    Sales report
- SPAIN  JRDEMO    Y Jrn Spain
- TSALE  JRN1     Y Demo application for sale (TEST *CALC)
- VBANK  JRDEMO
- VSALE  JRDEMO    Y Demo application for "V" users

F3=Exit  F6=Add New                                     F12=Cancel
Bottom
    
```

Work with Reports



Defining Set of Files

3. Press **F6** to add a new report. The **Add Report** screen appears.

```

Add Report                                     System: S520
                                                Last change date: 0/00/00
                                                by user:
Type choices, press Enter.

Report . . . . . █
Text . . . . . _____
Based on journal . . . . . _____
Library . . . . . _____
Include all journaled objects N  Y=Yes, N=Restrict by "1. Objects"

Select one of the following:
  1. Objects
  3. Filters

Selection ==> _____
About Reports and Applications
Report is a limited application definition, which includes Objects and
Filters. It does not include other definitions such as Business Items (eg.
P/O, Item, Cust.). It is used to define selections over Journalled data or
prefiltered data that is kept in Application containers.

F3=Exit   F4=Prompt

Modify data, or press Enter to confirm.
    
```

Add Report

The following table explains the options:

Option	Description
Set	Insert five character set name
Text	Insert descriptive text
Based on journal	Insert the system's journal name
Library	Insert the system's journal library name
Include all journaled objects	Y =Yes N =No, restrict by 1. Objects
Selection	1. Files: Select the files you want the set to use. <i>If no file was selected, the set will contain all the files in the journal.</i> 3. Filters: Select a predefined filter

NOTE: If Raz-Lee's **FileScope** is installed, its journal file can be used. The file name is: **FSJRN** at library: **SMZ1DTA**.

Defining Set of Files



4. Type **1** at the selection field to select files to work with. A list of files appears.

```
Work with Application Files
Name . . . . .: ASALE    Test application sale

Type options, press Enter.
  1=Select  4=Remove  5=Description  6=Fields  8=Object desc.
                Subset . . . _____

Opt  File      Library
█ > ALLTYPES  ADTSLAB    Physical file with all data types except DBCS  *
  > CUSTOMER ADTSLAB
- > MODEL     ADTSLAB
- > MULTIRECP ADTSLAB
- > PARTORDER ADTSLAB
- > PRODDTL   ADTSLAB    Product detail file
- > PRODLIST  ADTSLAB    Partno, PartD
- > PRODPRICE ADTSLAB    Product price file
- > PRODUCT   ADTSLAB    Product detail (no bitmap): KEY-PARTNO,MODEL
  MULTKEYS   ADTSLAB    Physical file with multiple keys
  PRODIV     ADTSLAB
  PRODSHOW   ADTSLAB    PartNo, Desc, Bitmap; KEY-PARTNO
More...

F3=Exit  F12=Cancel  F17=Top
```

Work with Application Files

5. Type **1=Select** to select the files. Press **Enter** to confirm the files selected and return to the **Add Report** screen.

Defining Set of Files



- Type **3. Filters** in the selection field of the **Add Report** screen to select predefined filters for the selected files. Also select one general filter for the record's headers.

```
Define Include Filters
Name . . . . . : ASALE      Test application sale
Type options, press Enter.
  1=Select  4=Remove
Opt  File      Library
  █  *ALL      Filter by Journal Header fields
  █  ALLTYPES  ADTSLAB  Physical file with all data types except DBCS  *
  -  CUSTOMER  ADTSLAB
  -  MODEL     ADTSLAB
  -  MULTIRECP ADTSLAB
  -  PARTORDER ADTSLAB
  -  PRODDTL   ADTSLAB  Product detail file
  -  PRODLIST  ADTSLAB  Partno, PartD
  -  PRODPRIE  ADTSLAB  Product price file
  -  PRODUCT   ADTSLAB  Product detail (no bitmap): KEY-PARTNO,MODEL
Bottom
F3=Exit      F12=Cancel
```

Define Include Filters

Defining Set of Files



- Type **1** to select ***ALL** or the file's name to filter according to the fields name. The **Filter Conditions** screen appears, allows to set filter for the results by header.

```

Filter Conditions

Name . . . . . ASALE Test application sale
File : ADTSLAB/CUSTOMER
Type conditions, press Enter.
Tests: EQ NE LE GE LT GT LIST NLIST LIKE NLIKE START DIF DIFxx DIF%xx
And      For LIKE, use % as "any string"    For DIF, xx is EQ NE LT...
Or  Text      Test      Value
  0 Customer number      █      _____
  0 Company name        _____
  0 Rep identifier      _____
  0 Name                _____
  0 Telephone          _____
  0 Fax                 _____
  0 Address             _____
  0 City                _____
  0 Country             _____
  0 Postal Code         _____
  0 PC location         _____
  -

F3=Exit      F6=Insert   F11=Text/Field  F12=Cancel      Bottom
    
```

Filter Conditions

Option	Description
And/Or	Select A =And/ O =Or operators to display All or Any of the conditions

Defining Set of Files



Option	Description
Test	EQ=Equal NE=Not Equal LE=Less Equal GE=Greater Equal LT=Less Than GT=Greater Than LIST=on the List NLIST=Not on the List LIKE=a pattern (ONLY for character field) NLIKE=Not a pattern (ONLY for character field) START=a pattern that Starts with (ONLY for character field) DIF=the update is Different from DIFxx=the update is Different from xx=EQ/NE/LE... <i>(should only be used on a numeric field and computes the numeric difference between the before and after contents of the field.)</i> DIF%xx=the update is N % Differently xx=EQ/NE/LE... <i>(for numeric field only)</i>
F6=Insert	Insert a another row to add more filter conditions for the same field

8. Press **Enter** to confirm and **Enter** to confirm these definitions.



Set of Files Analysis

- To view the changes that were done on a set of files, select **1. Display list of updates.**

```

Display APP Current Journal (DSPAPCRJ)

Type choices, press Enter.

Report or Application . . . . . *SELECT      Name, *SELECT, *JRN
Display last minutes . . . . . *BYTIME      Number, *BYTIME
Starting date and time:
  Starting date . . . . . *CURRENT      Date, *CURRENT, *YESTERDAY...
  Starting time . . . . . 000000      Time
Ending date and time:
  Ending date . . . . . *CURRENT      Date, *CURRENT, *YESTERDAY...
  Ending time . . . . . 235959      Time
User profile . . . . . *ALL          Name, *ALL
Program name . . . . . *ALL          Name, *ALL
Job name . . . . . *ALL          Name, *ALL
User . . . . .          Name
Number . . . . .          000000-999999
Number of records to process . . *NOMAX      Number, *NOMAX
Output . . . . . *          *, *PRINT, *PDF, *HTML..

                                                    Bottom
F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```

Display APP Current Journal

Option	Description
Report or Application	Set of file to display *JRN = Press F9 and Page Down twice, then enter a name in the "For APP(*JRN) - Journal" field as well as a library name.
Display last minutes	Last N minutes to display
Starting/Ending date and time	Select only those records occurring within the range specified by the starting and ending time specified below *CURRENT = The current date (day the report runs) *YESTERDAY = The day before the current date *WEEKSTR = Beginning of the current week *PRVWEEKSTR = Beginning of the previous week *MONTHSTR = Beginning of the current month *PRVMONTHSTR = Beginning of the previous month *YEARSTR = Beginning of the current year *PRVYEARSTR = Beginning of the previous year *MON - *SUN = Day of the current (or previous) week

Set of Files Analysis



Option	Description
User Profile	User profile who conduct the file's update
Program name	Name of the program used to change the file's information
Job name	Name of the job that changed the file's information
Number of records to process	Insert a number or *NOMAX
Output	* = to display only *PRINT = to print *PDF = PDF file *HTML = HTML file *OUTFILE *PRINT1-*PRINT9 = Select correct print option. Read more about the setup at chapter 6 for details.
On missing data (in Containers)	*CANCEL = cancel the missing data search *IGNORE = ignore the missing data *LOAD = search for the missing data in external data storage *INQ = inquiry for which the user should answer

Set of Files Analysis



2. Type the report/application name, define criteria and press **Enter**.
3. The **Display Journal Entries** screen appears, showing a list of journal entries according to the filter conditions selected.

Display Journal Entries

Type options, press Enter.
5=Display entire entry

Opt	File	Job	Program	User	Data-time	RRN
█	UP JDITEMM	QPADEV000T	JDITEMMD	QSECOFR	2009-02-01-16.34.14	25
-	UP JDORDDT	QPADEV0004	QDZTD00001	QSECOFR	2009-02-15-18.30.13	155
-	PT JDITEMM	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.29	83
-	PT JDITEMM	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.29	84
-	PT JDITEMM	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.29	85
-	PT JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.29	79
-	PT JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.29	80
-	PT JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	81
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	1
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	2
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	3
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	4
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	5
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	6

More...

F3=Exit F7=Subset F10=Detail mode F12=Cancel F17=Top

Display Journal Entries

Set of Files Analysis



- Type **5** to display the entry details with the information before and after the changes. The fields that were changed will appear with a black background.

```

Display Database Updates                                RRN: 1
Name . . . DSALE Demo application for sale                UP Update

Job . . . . : QPADEV000K/JR/118600                      File . . . : CUSTOMER
Date-Time . . : 2009-02-03-15.04.58                    Library . . : ADTSLAB
Program . . . : IOSLCALLC                               Member . . : CUSTOMER
Library . . . : SMZ1                                    IP address : 1.1.1.175
User . . . . : JR          Programmer of Journal
Field/Text  Current value                               Before value
CUSTNA     Meridien Electronics Limited.2             Meridien Electronics Limited.1
REPNO     43442                                       43443

                                                    Bottom
F3=Exit  F7=Subset  F8=Print  F10=List mode  F11=Field/Text  F12=Cancel  F17=Top
    
```

Display Database Updates

Field	Description
Job	Name of the job that changed the file's information
Date-Time	Date and time of the update
User	User profile name
Program	Name of the program used to change the file's information
File	The updated file
Library	Library's name
Member	The updated member
IP Address	The IP address that the change was set from. From V5R3 and higher.
F7=Subset	Search the file for specific information All = Filter according to the fields title File name = Filter according to the fields name

Set of Files Analysis



Field	Description
F8=Print	Print from the current position or from the beginning of the set, and select how many records to print
F11=Field/Text	Display the field's descriptive text

Printing the Set changes



Printing the Set changes

1. Select **5. Print Updates**. The **Display JR-Receiver Report** screen appears.

```

Display JR-Receiver Report (DSPDBSJR)

Type choices, press Enter.

Report or Application . . . . . *SELECT      Name, *SELECT
Display last minutes . . . . . *BYTIME     Number, *BYTIME
Starting date and time:
  Starting date . . . . . *CURRENT     Date, *CURRENT, *YESTERDAY...
  Starting time . . . . . 000000         Time
Ending date and time:
  Ending date . . . . . *CURRENT     Date, *CURRENT, *YESTERDAY...
  Ending time . . . . . 235959         Time
User profile . . . . . *ALL          Name, *ALL
Program name . . . . . *ALL          Name, *ALL
Job name . . . . . *ALL          Name, *ALL
  User . . . . . _____         Name
  Number . . . . . _____        000000-999999
Number of records to process . . *NOMAX     Number, *NOMAX
Output . . . . . *          *, *PRINT

                                                    Bottom
F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```

Display JR-Receiver Report

Option	Description
Set	Name of set to display
Display last minutes	Last N minutes to display
Starting/Ending date and time	Select only those records occurring within the range specified by the starting and ending time specified below *CURRENT = The current date (day the report runs) *YESTERDAY = The day before the current date *WEEKSTR = Beginning of the current week *PRVWEEKSTR = Beginning of the previous week *MONTHSTR = Beginning of the current month *PRVMONTHSTR = Beginning of the previous month *YEARSTR = Beginning of the current year *PRVYEARSTR = Beginning of the previous year *MON - *SUN = Day of the current (or previous) week
User Profile	User profile who conduct the file's update
Program name	Name of the program used to change the file's information

Display Immediate



Option	Description
Job name	Name of the job that changed the file's information
Number of records to process	Insert a number or *NOMAX
Output	*PRINT - to print * - to display only

NOTE: At the output print next to the fields that were changed, a special mark will appear. This can be modified from option **81. System Configuration** off the main menu: **Marker of changed field**

NOTE: See chapter 3 - Work with Single File for information regarding options 31, 32 and 39.

Display Immediate

1. Select **3** and/or **7** to display/print directly from the journal receivers. These options do not require an application to be pre-defined.

```

Display APP Current Journal (DSPAPCRJ)

Type choices, press Enter.

Report or Application . . . . . > *JRN      Name, *SELECT, *JRN
Display last minutes . . . . . *BYTIME   Number, *BYTIME
Starting date and time:
  Starting date . . . . . *CURRENT     Date, *CURRENT, *YESTERDAY...
  Starting time . . . . . 000000       Time
Ending date and time:
  Ending date . . . . . *CURRENT     Date, *CURRENT, *YESTERDAY...
  Ending time . . . . . 235959       Time
User profile . . . . . *ALL          Name, *ALL
Program name . . . . . *ALL          Name, *ALL
Job name . . . . . *ALL             Name, *ALL
User . . . . .                    Name
Number . . . . .                    000000-999999
Number of records to process . . *NOMAX   Number, *NOMAX
Output . . . . . *                   *, *PRINT, *PDF, *HTML..

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```

Display APP Current Journal (DSPAPCRJ)

Display Immediate



Option	Description
Report or Application	*JRN = Press F9 and Page Down twice, then enter a name in the "For APP(*JRN) - Journal" field as well as a library name.
Display last minutes	Last N minutes to display
Starting/Ending date and time	Select only those records occurring within the range specified by the starting and ending time specified below *CURRENT = The current date (day the report runs) *YESTERDAY = The day before the current date *WEEKSTR = Beginning of the current week *PRVWEEKSTR = Beginning of the previous week *MONTHSTR = Beginning of the current month *PRVMONTHSTR = Beginning of the previous month *YEARSTR = Beginning of the current year *PRVYEARSTR = Beginning of the previous year *MON - *SUN = Day of the current (or previous) week
User Profile	User profile who conduct the file's update
Program name	Name of the program used to change the file's information
Job name	Name of the job that changed the file's information
Number of records to process	Insert a number or *NOMAX
Output	* = to display only *PRINT = to print *PDF = PDF file *HTML = HTML file *OUTFILE *PRINT1-*PRINT9 = Select correct print option. Read more about the setup at chapter 6 for details.

Display Immediate



- The **Display Journal Entries** screen appears, showing a list of journal entries according to the filter condition selected.

Display Journal Entries

Type options, press Enter.
5=Display entire entry

Opt	File	Job	Program	User	Data-time	RRN
█	UP JDITEMM	QPADEV000T	JDITEMMD	QSECOFR	2009-02-01-16.34.14	25
█	UP JDORDDT	QPADEV0004	QDZTD00001	QSECOFR	2009-02-15-18.30.13	155
-	PT JDITEMM	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.29	83
-	PT JDITEMM	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.29	84
-	PT JDITEMM	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.29	85
-	PT JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.29	79
-	PT JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.29	80
-	PT JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	81
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	1
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	2
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	3
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	4
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	5
-	UP JDWHLOT	QPADEV0017	JDBLDDR	QSECOFR	2009-02-17-10.32.30	6

More...

F3=Exit F7=Subset F10=Detail mode F12=Cancel F17=Top

Display Journal Entries

Display Immediate



- Type **5** to display the entry details with the information before and after the changes. The fields that were changed will appear with black background.

```

Display Database Updates
RRN: 155
UP Update

Job . . . . : QPADEV0004/QSECOFR/124434      File . . . . : JDORDDT
Date-Time . . : 2009-02-15-18.30.13          Library . . : SMZJDTA
Program . . . : QDZTD00001                  Member . . . : JDORDDT
Library . . . : QTEMP                        IP address . : 1.1.1.166
User . . . . : QSECOFR      Security Officer

Field/Text  Current value      Before value
DORDNO     001272              001272
DLINNO     4.                  4.
DITMCD     0005027252          0005027252
DQUANT     94.00               94.00
DPRICE     35.00               28.00
DDDATE     2009-01-24          2009-01-24

Bottom
F3=Exit  F7=Subset  F8=Print  F10=List mode  F11=Field/Text  F12=Cancel  F17=Top
    
```

Display Database Updates

Field	Description
Job	Name of the job that changed the file's information
Date-Time	Date and time of the update
User	User profile name
Program	Name of the program used to change the file's information
File	The updated file
Library	Library's name
Member	The updated member
IP Address	The IP address that the change was set from. From V5R3 and higher.

Display Immediate



Field	Description
F7=Subset	Search the file for specific information All = Filter according to the fields title File name = Filter according to the fields name
F8=Print	Print from the current position or from the beginning of the set, and select how many records to print.
F11=Field/Text	Display the field's descriptive text

Display Immediate



Work with Business Analysis



Chapter 4: Work with Business Analysis

Business Analysis option creates Journal Application which is based upon the system journal QJRNRCV, that contains activity data on the database files.

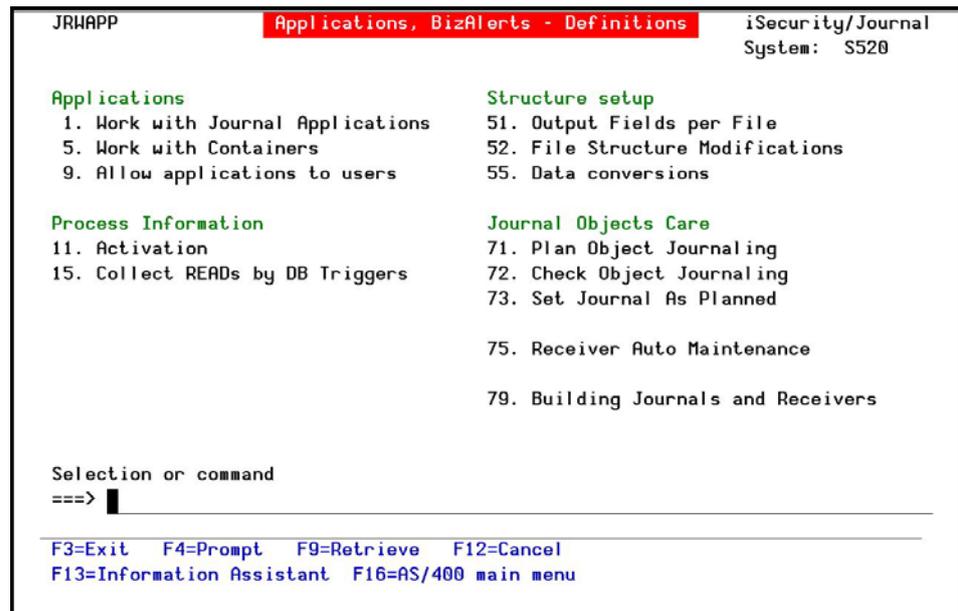
The Journal Application information provides the ability to filter the system journal data, sort by the fields' common keys, display changes and have alerts triggered.

The Journal Application can process data in real-time as well as collect older information, as long as this data is available on the disk.

The data processing can also be done in batch (off-working hours).

To build, define and work with Journal Applications:

1. Select **11. Applications, BizAlerts etc.** from the **Application Journal** main menu. The **Applications, BizAlerts - Definitions** menu appears.



Applications, BizAlerts - Definitions

Defining Application

To view field changes in several files, create an application of files combines information from all the relevant files and fields needed. After creating the application, the first

Defining Application



Container is created automatically. This *Container* contains the same logical information from the system's receiver, in a filtered format from the files and fields you chose. In that way, only the relevant information is kept in the system.

Creating a new set of files

To define a new application:

1. Select **1. Work with Journal Applications** from the **Applications, BizAlerts - Definitions** menu. The **Work with Journaled Applications** screen appears.

```
Work with Journaled Applications
Type options, press Enter.                               System: S520
 1=Select 3=Copy 4=Delete 5=Display (Receivers) 6=Display (Containers)
 8/9=Enable/Disable application S/E/D=Start/End/Display real-time collection
 X=Explanation & Classification      Position to . . . . _____
  = Collecting      Subset by text . . . _____
      Enabled      SIEM      by classification.  _ A=Agent...
Opt Name      Journal      Only
- ACTST      Y      JRDEMO      Y Test Action log
- ADEMO      Y      JRDEMO      Changes using unauthorized programs
- CHGRZ      Y      SMZ8      Definition changes in Security products
- DEMOA      Y      JRDEMO
- DEMOB      JRDEMO
- DEMOC      Y      JRDEMO      SBM's 5 files demo application
- DEMOD      JRDEMO
- DEMOE      Y      JRDEMO      Demo application
- DEMOM      Y      JRDEMO
 DEMOR      JRDEMO      Report run definitions for DEMOE- Do not activate
- DEMOX      Y      JRDEMO
- DEMOY      JRDEMO
More...
F3=Exit F5=Refresh F6=Add New F8=Work with active collections F12=Cancel
```

Work with Journaled Applications

Defining Application



- Press **F6** to add a new set or type **1** by an existing Application and press **Enter**. The **Add Application** screen or **Modify Application** screen appears as appropriate.

```

*Enabled*                               Modify Application                               System: S520
                                                                                   Last change date: 10/08/15
                                                                                   by user: ALEX2

Application . . . . . JRDEM                Name
Text . . . . .
Type . . . . . APP                        APP=Application, RPT=Report
Based on journal . . . . . JRDEMO
  Library . . . . . SMZJDTA                IASP . *NONE      Name, *NONE
Include all journalled objects Y  Y=Yes, N=Restrict by "Objects to include"

Select one of the following:
> 1. Objects to include
  2. Alerts on data (before include filters)
> 3. Include Filters (define data to keep in containers)
> 4. Alerts on data (after include filters)

6. SIEM Support
7. Define Business Items (common keys)
8. Identify Business Items in application files
9. Configuration
Selection ==> █

F3=Exit   F4=Prompt   F7=Rename based on journal
    
```

Modify Application

NOTE: If Raz-Lee's **FileScope** is installed, you can use its journal file **FSJRN** in library **SMZ1DTA** as a base journal.

The table below describes the parameters:

Parameter	Description
Application	Insert a five character application name
Text	Insert a meaningful description
Type	Define if this is an application or a report APP = Application RPT = Report
Based on journal	Insert the system's journal file and library name



Parameter	Description
IASP	Name *NONE
Include all journalled files	Type 'Y' to include all the journaled files or 'N' to select specific files to include using option 1. Objects to include below.
Selection	<p>1. Objects to include: Select the objects you want the application to use. You can select up to 1,000 objects to use both the header and data of the object. If you select more than 1,000 objects, the application will use only header information for those additional objects.</p> <p>2. Alerts on data: Alerts based upon the changes in the journal receiver before the include filters are checked.</p> <p>3. Include Filters: Select a predefined filter.</p> <p>4. Alerts on data: Real-time action based on definitions that are based upon changes in the containers after the include filters were checked.</p> <p>6. SIEM Support: Define SIEM support for the application.</p> <p>7. Define Business Items: Common key fields which contain the same information across several files in the application. Usually these are generic key fields. Such fields can later be used for selections.</p> <p>For each application you can select up to 15 fields.</p> <p>8. Identify Business Items in application files Select the Application Objects to be used in the application.</p> <p>9. Configuration: Define the application configuration.</p>

Some journals support millions of objects. The AP-Journal does support such journals. This includes the functions which list the objects that are journaled, (which will take considerable-equivalent time). AP-Journal application supports any number of objects in the following way (restrictions apply):

	Include all Objects = NO	Include all Objects = YES
Number of supported objects	10,000,000	1,000
Select by generic name	Yes	No



	Include all Objects = NO	Include all Objects = YES
Object selection method	By selection over the *ALL entry Consider using the ITEM test and specifying the objects in an external group, with or without generic names.	Use the Objects to include option
Object selection method for work with by fields	Use the Objects to include option	Use the Objects to include option
Objects to refer by fields	1,000	1,000
Maximum objects to use for best performance	N/A	300 The IBM command supports up to 300 named files or *ALL

Files to include

1. Enter parameters as described above and type **1** in the **Selection** field to select objects to work with. The **Work with Application Objects** screen appears.

```

Work with Application Files
Name . . . . . : ASALE      Test application sale
Type options, press Enter.
  1=Select  4=Remove  5=Description  6=Fields  8=Object desc.
                Subset . . .
Opt  File      Library
  > ALLTYPES  ADTSLAB  Physical file with all data types except DBCS  *
  > CUSTOMER  ADTSLAB
  - > MODEL     ADTSLAB
  - > MULTIRECP ADTSLAB
  - > PARTORDER ADTSLAB
  - > PRODDTL   ADTSLAB  Product detail file
  - > PRODLIST  ADTSLAB  Partno, PartD
  - > PRODPRICE ADTSLAB  Product price file
  - > PRODUCT   ADTSLAB  Product detail (no bitmap): KEY-PARTNO,MODEL
  - MULTKEYS  ADTSLAB  Physical file with multiple keys
  - PRODINV   ADTSLAB
  - PRODSHOW  ADTSLAB  PartNo, Desc, Bitmap; KEY-PARTNO
More...
F3=Exit  F12=Cancel  F17=Top
    
```

Defining Application



Work with Application Files

2. Type **1=Select** to select the files. Press **Enter** to confirm the selected files. The **Add Application** screen appears.

Alerts on data (before include filters)

1. Type **2** in the **Selection** field to select alerts to work with. The **Define Alert on Data** screen appears.

```
Define Alert on Data
Checked . . . . .: Before include filters are checked
Name . . . . .: ASALE   Dbvccb  bmgmg

Type options, press Enter.
  1=Select  6=Move to "After inclusion"

Opt  File      Library
  █  CUSTOMER  ADTSLAB
  -   MODEL    ADTSLAB
  -   MULTIRECP ADTSLAB
  -   MULTKEYS  ADTSLAB   Physical file with multiple keys
  -   PARTORDER ADTSLAB
  -   PRODDTL   ADTSLAB   Product detail file
  -   PRODINV   ADTSLAB
  -   PRODLIST  ADTSLAB   Partno, PartD

F3=Exit          F12=Cancel          Bottom
```

Define Alert on Data

2. Type **1** to select a file to set an action for and press **Enter**. The **Work with Business Alert** screen appears.

Defining Application



```
Work with Business Alert

Application . . . DSALE      Dbvccb  bmngmg
File . . . . . MODEL
Library . . . ADTSLAB
Type option, press Enter.
  1=Select  3=Copy  4=Delete  7=Alert condition  8=Alert  9=Message

Opt  Seq  Alert   Active

      (Use "F6=Add new" to enter a new item)

F3=Exit  F6=Add New                                F12=Cancel  F22=Renumber
```

Work with Business Alert

3. Press **F6** to add a new action. The **Add Business Alert** screen appears.

Defining Application



```

                                Add Business Alert

Application . . . ASALE          Dbvccb  bmngmg
File . . . . . CUSTOMER
Library . . . . ADTSLAB

Type choices, press Enter.

Alert Id. . . . . *ADD          Name, *ADD, F4=Prompt

Description . . . . . _____

Active . . . . . Y              Y=Yes, N=No (Temporarily suspend)

Press Enter to define the following:
  o Conditions for this alert
  o Message to send
  o Methods and addresses where to send the alert
  o CL script to run at this event

F3=Exit   F4=Prompt           F12=Cancel

```

Add Business Alert

- 4. Type a name for the new action and a description and press **Enter**. The **Alert Conditions** screen appears.

Defining Application



```

Alert Conditions

Name . . . . . AAAA3
File : SMZJDTA/JDITEMM      JD Item Master
Type conditions, press Enter.
  Test:EQ NE LE GE LT GT N/LIST N/LIKE N/START N/ITEM N/SAME DIFxx DIF%xx
And          For LIKE, use % as "any string"          xx=EQ NE LT...
Or Text          Before=B Test  Value (If Test=ITEM use F4)
  ITEM CODE          █ _____
  - ITEM DESCRIPTION  - _____
  - CREATION DATE    - _____
  - MIDAS DATE       - _____
  - Code R=Rcd U=Read F=Mbr
  - Entry: DL UP PT PX RR DM MC MN
  - Name of Job      _____
  - Name of User     _____
  - Number of Job    _____
  - User Profile (Current)
  - Name of Program  _____
  - Program Library  _____
  More...

F3=Exit  F4=Prompt  F6=Insert  F11=Text/Field  F12=Cancel

```

Alert Conditions

- **NSTART** is a new option which checks that the "before" or "after" values do not start with the characters entered
 - **SAME** is a new option which compares between the "before" and "after" field values
 - **NSAME** (replaces DIF which can also be specified) is a new option which compares between the "before" and "after" field values
 - **Before=B** can be used to compare current values to "before" values
 - **Code R=Rcd U=Read F=Mbr**
 - **Entry: DL=delete UP=update PT= PX= RR= DM=delete member MC=member change MN=member rename**
5. Define alert conditions and press **Enter** to confirm. The **Message to send** screen appears.

Defining Application



```
                                Edit Action Script

Action . . REUT004202

Type choices, press Enter.
Note: Add quotes where needed. e.g. CALL PGM PARM('&PARM01' '&PARM02').
Order Label      Command, GOTO label (unconditional)
1.00 _____ -
                                On error, go to label . . _____ -
2.00 _____ -
                                On error, go to label . . _____ -
3.00 _____ -
                                On error, go to label .. _____ -
4.00 _____ -
                                On error, go to label . . _____ -
                                More...
F3=Exit F4=Prompt F7=Replacement variables F8=Replacement job F12=Cancel
```

Edit Action Script

- 8. Type a CL command to issue in real-time and press **Enter** to confirm. The **Add Application** screen appears.

Defining Application



Include Filters

1. Type **3** in the **Selection** field to define filters to work with. The **Define Include Filters** screen appears..

```
Define Include Filters
Name . . . . . : ASALE   Dbvccb  bmgmg
Type options, press Enter.
1=Select  4=Remove
Opt  File      Library
*ALL                                     Filter by Journal Header fields
█ CUSTOMER  ADTSLAB
MODEL      ADTSLAB
- MULTIRECP ADTSLAB
- MULTKEYS  ADTSLAB   Physical file with multiple keys
- PARTORDER ADTSLAB
- PRODDTL   ADTSLAB   Product detail file
- PRODIV    ADTSLAB
- PRODLIST  ADTSLAB   Partno, PartD
-
F3=Exit          F12=Cancel          Bottom
```

Define Include Filters

2. Type **1=Select** to select a file of a list and set a filter to define data to keep in containers.

Defining Application



```

Filter Conditions

Name . . . . . AAAA3
File : SMZJDTA/JDITEMM      JD Item Master
Type conditions, press Enter.
Test:EQ NE LE GE LT GT N/LIST N/LIKE N/START N/ITEM N/SAME DIFxx DIF%xx
And          For LIKE, use % as "any string"          xx=EQ NE LT...
Or Text      Before=B Test Value (If Test=ITEM use F4)
ITEM CODE   █ _____
ITEM DESCRIPTION  - _____
CREATION DATE  - _____
MIDAS DATE    - _____
Code R=Rcd U=Read F=Mbr
Entry: DL UP PT PX RR DM MC MN
Name of Job    - _____
Name of User   - _____
Number of Job  - _____
User Profile (Current) - _____
Name of Program - _____
Program Library - _____
More...
F3=Exit F4=Prompt F6=Insert          F11=Text/Field F12=Cancel
    
```

Filter Conditions

3. Set filter conditions and press **Enter** to confirm. The **Add Application** screen appears.

Alerts on data (after include filters)

1. Type **4** in the **Selection** field to select alerts to work with after the include filters were checked. The **Define Alert on Data** screen appears.

Defining Application



```
SIEM Support

Type choices, press Enter.

Application . . . . . AAAA3      Name
Text . . . . .
Based on journal . . . . . JRDEMO
Library . . . . . SMZJDTA

Run-Time Attributes
Send Syslog or SNMP . . . . . N      1=Syslog, 2=SNMP, N=No
When to send . . . . . 1          1=Before include filter
                                   2=After include filter
As only operation . . . . . Y      Y=Yes, N=No

User exit program . . . . . _____ Library: _____
This is a user alert and filter program. See SMZJ/JRSOURCE JRFSYSEX

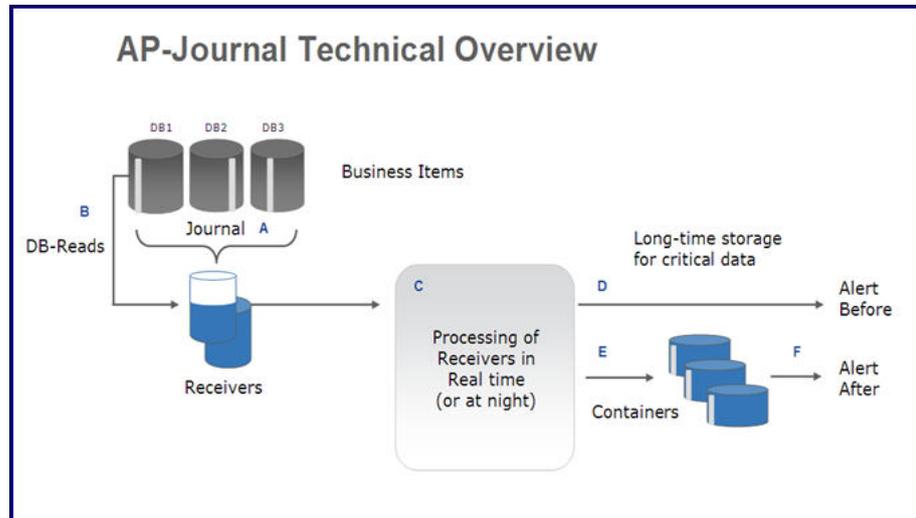
F3=Exit   F4=Prompt   F12=Cancel
```

SIEM Support

2. Select the type of message to be sent, SNMP or Syslog.
3. Define whether to send the message before or after checking the include filter.
4. Define whether or not to send the message as an operation.
5. Define a User Exit Program to use.
6. Press **Enter**. The **Add Application** screen appears.

Define Business Items

Business Items are fields which contain data of the same meaning and values among the application files.



The white strips in the image represent the Business Items. Note that in the Database the Business Items are located on different places in each Database, and after the process procedure the Business Items are organized in the Containers.

1. Type **7** in the **Selection** field to select Business Items to work with. The **Work with Business Items** screen appears.

Defining Application



Work with Business Items

Business Items are fields which contain data of same meaning and values among the application files. Such fields can later be used for selections.

Application . . . ARROW
Type options, press Enter.
1=Select 4=Remove

Opt	Text	Business Item	Id.	Attributes
█	ORDER NUMBER		1	A 6

Bottom

F3=Exit F6=Add New F12=Cancel

Modify data, or press Enter to confirm.

Work with Business Items

- 2. Press **F6** to add a new action. The **Add Business Item** screen appears

Defining Application



```

                                     Add Business Item

Application .   ARROW

Type choices, press Enter.

Business item Id. . . . . 1          1-15
Text . . . . . _____

-----
Obtain attributes of the business item from a field in:
Journalled file . . . . . _____ Name, F4 for list
Library . . . . . _____

F3=Exit   F4=Prompt   F12=Cancel

```

Add Business Items

3. Enter a unique **Business Item ID** for this Business Item in this application.
4. Enter a meaningful description **Text** for this Business Item.
5. Enter the **File** and **Library** from which attributes of the Business Item can be taken.
6. Press **Enter**. The **Add Application** screen appears.

Identify Business Items in application files

1. Type **8** in the **Selection** field to identify Business Items to work with. The **Work with Application Objects** screen appears.

Defining Application



```
Work with Application Files

Name . . . . .: ARROW

Type options, press Enter.

  1=Select  4=Remove  5=Description  6=Fields  8=Object desc.
Opt  File      Library
█   JDITEMM   SMZJDTA   JD Item Master
-   JDORDDT   SMZJDTA   JD Order Detail
-   JDORDHD   SMZJDTA   JD Order Header
-   JDSHIPB   SMZJDTA   JD Shipping Bill

F3=Exit  F6=Add file  F12=Cancel  F13=Repeat select  F14=Repeat de-select  Bottom
F17=Top  F18=Bottom
```

Work with Application Objects

- 2. Type **1=Select** to select files for the application

Defining Application



```

                                Select Field with Same Data
For field: ORDER NUMBER                      A   6 Id.  1
From file: SMZJDTA/JDORDDT
Type choices, press Enter.
      I=Select

Opt Field      Description      Attributes
  █ DORDNO     *SAME ORDER NUMBER  A   6
  - DLINNO     LINE NUMBER        S  3, 0
  - DITMCD     ITEM CODE           A  10
  - DQUANT     QUANTITY            S 11, 2
  - DPRICE     PRICE               S  7, 2
  - DDDATE     DELIVERY DATE       S  6, 0
  - DMDDAT     MIDAS DATE          P  5, 0

                                Bottom
F3=Exit          F12=Cancel

```

Select Field with Same Data

Configuration

1. Type **9** in the **Selection** field to configure the application. The **Application Configuration** screen appears.

Defining Application



```

Application Configuration

Type choices, press Enter.

Application . . . . . ASALE          Name
Text . . . . . Dbvccb  bmngmg
Based on journal . . . . . JRN1
  Library . . . . . ADTSLAB

Run-Time Attributes
Auto start at IPL . . . . . N          Y=Yes, N=No
Days to keep data on line . . 998      Number, 999=*NOMAX
Auto replace container . . . *NO       *NO, /1.../99=Every n days,
                                      MON...SUN=Weekly, 1...31=Monthly

User exit program . . . . .           Library:
This is a user alert and filter program. See SMZJ/JRSOURCE JRFLRALL

Enablment Attributes
Container allows delete . . . N        Y=Yes, N=No
Allows future compression of records, which have become less significant.

F3=Exit   F4=Prompt   F12=Cancel
    
```

Application Configuration

Parameter	Description
Auto start at IPL	Y=Yes N=No
Days to keep data on line	Define a retention period in days for the application data. 999 = *NOMAX
Auto replace container	Define when a container will be automatically replaced with a new one. *NO = no automatic replacement of the container /1 ... /99 = replace the container every nn days MON ... SUN = Replace the container weekly on the given day of the week 1 ... 31 = Replace the container monthly on the given day of the month
User exit program	Define a path to an alert and filter program.

Activation



Parameter	Description
Container allows delete	Y=Yes N=No

- Enter your configuration parameters and press **Enter**. The **Add Application** screen appears.

NOTE: Based on the *Days to keep data on line* and *Auto replace container* parameters, the AP-Journal daily maintenance program (JR#MNT) builds the SMZJYYMMDD libraries (one for each calendar date), and excess Data files (excess containers) are **MOVED** into it. It is the customer's responsibility to backup/delete these libraries; Raz-Lee provides a template program for the backup. If you do not want containers to be replaced or libraries to be built, set *Days to keep data on line* to **999** and *Auto replace container* to **NO**.

Activation

After creating and defining the new application, type **8=Enable** to start building the definitions file. The letter **Y** will appear next to the application.

```

Work with Journalled Applications
Type options, press Enter.
1=Select 3=Copy 4=Delete 5=Display (Receivers) 6=Display (Containers)
8/9=Enable/Disable application S/E/D=Start/End/Display real-time collection
X=Explanation & Classification Position to . . . .
Subset by text . . . .
by classification. _ A=Agent...

System: S720

█ = Collecting
Opt Name Journal Enabled
█ DEMOP DEMO DMOPE from lib FERNANDO Jrn DEMO
- DEM01 JRDEMO Y Demo with No Business Items
- DEM02 JRDEMO Y Demo with Business Item 01
- DEM03 JRDEMO Y Demo with Business Item 01 and 02
- DSALE JRN1 dfsdf
- FSALE MANJRN February 2010 Sales
- HBWTT FSJRN
- MIGDA SMZB Migdal
- QBCCC MANJRN d
- RDEMO JRDEMO Report Demo with Business Item 01 and 02
- REUT1 JRN1 do not delete! (created in as400 4 check).
- SHIPB JRDEMO Y Shipping bill

More...
F3=Exit F5=Refresh F6=Add New F8=Work with active collections F12=Cancel

```

Work with Journaled Applications

Activation



Type **S** to **Start** a specific application. The application reads the definition file and builds a subsystem which collects the data. The **Start Real-Time JRN Activities (STRRTJR)** screen appears.

```
Start Real-Time JRN Activities (STRRTJR)

Type choices, press Enter.

Application . . . . . > DEM01           Name, generic*, *ALL
"Auto Start" Application Only . > *ALL   *YES, *NO, *ALL
Starting date and time:
  Starting date . . . . . *PRVEND       Date, *PRVEND, *CURRENT...
  Starting time . . . . . _____    Time, *CURRENT
```

```
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display   Bottom
F24=More keys
```

Start Real-Time JRN Activities (STRRTJR)

NOTE: **prvend = from beginning of available data or from today*

Select a starting date and time and press **Enter** to confirm.

The application will appear activated with a highlighted background.

Activation



```
Work with Journalled Applications
Type options, press Enter.                               System: S720
1=Select 3=Copy 4=Delete 5=Display (Receivers) 6=Display (Containers)
8/9=Enable/Disable application S/E/D=Start/End/Display real-time collection
X=Explanation & Classification                          Position to . . . . _____
Subset by text . . . . _____
by classification. _ A=Agent...

█ = Collecting
Opt  Name  Journal  Enabled
-
DEMOP DEMO      DMOPF from lib FERNANDO Jrn DEMO
█ DEM01 JRDEMO    Y Demo with No Business Items
- DEM02 JRDEMO    Y Demo with Business Item 01
- DEM03 JRDEMO    Y Demo with Business Item 01 and 02
- DSALE JRN1      dfsdf
- FSALE MANJRN   February 2010 Sales
- HBWTT FSJRN
- MIGDA SMZ8     Migdal
- QBCCC MANJRN   d
- RDEMO JRDEMO    Report Demo with Business Item 01 and 02
- REUT1 JRN1      do not delete! (created in as400 4 check).
- SHIPB JRDEMO    Y Shipping bill
-
More...
F3=Exit F5=Refresh F6=Add New F8=Work with active collections F12=Cancel
```

Work with Containers

The journal information is stored in containers. This option allows you to manipulate the containers.

1. Select **5. Work with Containers** from the **Applications, BizAlerts - Definitions** menu. The **Work with Application Containers** screen appears.

Activation



```
Work with Application Containers
Type options, press Enter.                Position to . . . ____
  1=Select  6=Change application container

Opt  Name      Text
  █  ACTST     Test Action log
  -  ACTS2     Test Action log
  -  ADEMO     Changes using unauthorized programs
  -  AGUI1
  -  AGUI5     TEST FROM GUI
  -  CHGRZ     Definition changes in Security products
  -  DEMOA
  -  DEMOE     Demo application
  -  EURNT     Test file jrinfz
  -  FILSC     TEST
  -  HLIVE     Changes using unauthorized programs
  -  ITALY     Demo

F3=Exit                F12=Cancel                Bottom
```

Work with Application Containers

2. Select an application, type **1** and press **Enter**. The **Display Application Containers** screen appears.

Activation



Display Application Containers

Type options, press Enter.
5=Display details

Opt	Container	Number	From	To	Archived to
█	ADEMO	0009	2014-01-22-18.38.30		
-	ADEMO	0008	2014-01-22-18.38.30	2014-01-22-18.38.30	
-	ADEMO	0007	2013-12-22-13.39.09	2014-01-22-18.38.29	
-	ADEMO	0006	2013-11-17-15.46.18	2013-12-22-13.39.08	
-	ADEMO	0005	2013-10-27-11.48.38	2013-11-17-15.46.17	
-	ADEMO	0004	2013-10-23-16.42.26	2013-10-27-11.48.37	
-	ADEMO	0003	2013-10-23-16.42.26	2013-10-23-16.42.26	
-	ADEMO	0002	2013-01-01-00.00.00	2013-10-23-16.42.25	
-	ADEMO	0001	0001-01-01-00.00.00	0001-01-01-00.00.00	

Bottom

F3=Exit F6=Change application container F12=Cancel

Display Application Containers

3. Select a container, type **5** and press **Enter** to display its details or press **F6** to change the application container.

Allow applications to users

Use this option to authorize your journal applications to specific users.

1. Select **9. Allow applications to users** from the **Applications, BizAlerts - Definitions** menu. The **Work with Application Authorizations** screen appears.

Activation



Work with Application Authorizations

Type options, press Enter.

1=Modify 3=Copy 4=Delete

Application *APP

Subset by Application _____
by User . . . _____
Show Appl./Jrn. . . . A/J

Opt	or Journal	or Library	User	Allow
█	DEMOA	*APP	DEVELOPER	Y
-	DEMOA	*APP	TZION	Y
-	DEMOA	*APP	ZION	Y
-	DEMON	*APP	TEST	Y
-	DEMOT	*APP		Y
-	ITALY	*APP	AU	Y
-	ITALY	*APP	GS	Y
-	ITALY	*APP	JR	Y
-	ITALY	*APP	QSECOFR	Y

F3=Exit F6=Add new F12=Cancel Bottom

Work with Application Authorizations

- 2. Press **F6** to add authorizations. The **Add New Application Authorization** screen appears.



```

Add New Application Authorization

Type choices, press Enter.

Application or Journal . . . █          Name, *APP
 *APP or Library . . . . *APP

Allow . . . . . Y          Y=Yes, N=No

User (F7=for multiple) . . .         

Note:
Allowance to an application is checked for the user profile and all his group
profiles. Any Allow=Y will authorize the use. If no suitable entry is found,
the allowance for the Journal will be checked in a similar manner.

If no entry exists in the allowance file, standard object authority for the
Journal will be considered.

F3=Exit   F4=Prompt   F7=Enter multiple users          F12=Cancel
    
```

Add New Application Authorization

Parameter	Description
Application or Journal	Type the name of the Application or Journal to be authorized.
*APP or Library	Name *APP =
Allow	Y = Yes N = No
User	Enter the name of the user. Use F7 to enter multiple users.

3. Enter your parameters and press **Enter**.

NOTE:

Process Information

Activation

This option activates and starts all enabled applications.

Process Information



1. Select **11. Activation** from the **Applications, BizAlerts - Definitions** menu. The **Collection to Containers** menu appears.

```
JRSETMN                               Collection to Containers                               iSecurity/ Journal
                                                                              System:  S720

Select one of the following:

Activation
  1. Activate Real-Time Journal Collection
  2. De-activate Real-Time Journal Collection

  5. Work with Active Jobs

Auto-Activation
  11. Activate Real-Time Journal Collection at IPL
  12. Do Not Activate Real-Time Journal Collection at IPL

Selection or command
===> █

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F13=Information Assistant  F16=AS/400 main menu
```

Collection to Containers

2. Select **1. Activate Real-Time Journal Collection** to start the application real-time journaling, and press **Enter**.
3. Select **11. Activate Real-Time Journal Collection at IPL** and press **Enter**.
4. Select **5. Work with Active Jobs** and make sure the job is active. Each application will appear in a different job.

Journal DB Operations

A permanent license key is required in order to use this option.

1. Select **15. Collect READs by DB Triggers** from the **Applications, BizAlerts - Definitions** menu. The **Work with File Operations** screen appears.



```

Work with File Operations

Type options, press Enter.                Position to . . . _____
  1=Modify   4=Remove   6=Activate   7=Temporary disable   8=Deactivate

Opt File      Library      Journal
  DEMOJR      DLT          R D I U
  TRGT        SMZJ          A     B
  -

R=Read, I=Insert, D=Delete, U=Update. A=After, B=Before. ■ =Enabled ■ =Disabled
F3=Exit      F6=Add New   F12=Cancel
    
```

Work with File Operations

The file operations are activate if the journal definitions in the screen are white on a black background (as in the second row), and not activate if the definitions are black on a white box (as in the first row). If the letters are pink, the file operations are temporarily disabled.

- Press **F6** to add a new file or type **1** to modify an existing one. The **Modify File Operation** screen appears.



```

Modify File Operations

Type choices, press Enter.

File . . . . . DEMOJR      Name
Library . . . . . DLT      Name
Description . . . . . Demo file
Time to write to journal Journal name is the *CURRENT/*LAST journal used.
for READ . . . . . -      A=After
for DELETE . . . . . -      B=Before
for INSERT . . . . . -      B=Before, A=After
for UPDATE . . . . . B      B=Before, A=After
If file is journalled, use READ only, or you will have duplicate entries.
Operation
Write images to journal . B      B=*BOTH, A=*AFTER, N=*NONE
Add Pgm, RRN info . . . . Y      Y=Yes, N=No
Use filter . . . . . N      Y=Yes, N=No
User decision program . . *NONE      Name, *NONE
Library . . . . .      Name
This is a user alert and filter program. See SMZJ/JRSOURCE JRTRGFLR.

F3=Exit          F5=Display journal name      F12=Cancel
    
```

Modify File Operations

Option	Parameters
File	Name of file
Library	Name of file's library
Description	Descriptive text
Time to write to Journal	For each type of change (Read, Delete, Insert, Update) A =After change B =Before change



Option	Parameters
Write images to journal	The benefit of the READ feature is that most companies want to know when records have been accessed (read), as that too is a security breach. Supporting READ uses "trigger" technology, not IBM journal receivers, which makes this product unique. AP-Journal keeps the information about READs in IBM's journal receivers together with the regular information stored there, so the processing from that point on is the same. Filter can be based upon READs as well. B =*BOTH A =*AFTER N =*NONE
Add Pgm, RRN info	Y =Yes N =No
Use filter	Y =Yes N =No
User decision program	Name=Name of program *NONE
Library	Library of program

Structure Setup

Define the fields you want to see in reports and how to display them

Output Fields per File

Select which fields you want to display in the report.

1. Select **51. Output Fields per File** from the **Applications, BizAlerts - Definitions** menu. The **Work with File Reporting Specification** screen appears.



Work with File Reporting Specification

Type options, press Enter. Position to . . . _____
1=Modify 4=Remove Note: Default is to print Key + Changed fields.

Opt	File	Library	
█	CUSTOMER	ADTSLAB	
-	DEMOPF	SMZ1	Demo file
-	DEMOPF1	SMZ1	Demo file
-	EVA1	EVA	Demo file
-	PRODDTL	ADTSLAB	Product detail file
-	PRODINV	ADTSLAB	
-	PRODLIST	ADTSLAB	Partno, PartD
-	PRODUCT	ADTSLAB	Product detail (no bitmap): KEY-PARTNO,MODEL
-			

Bottom

F3=Exit F6=Add New F12=Cancel

Work with File Reporting Specification

- 2. Press **F6** to add a new file. The **Add File Reporting Specification** screen appears.



```

Add File Reporting Specification

Type choices, press Enter.

File . . . . . █      Name
Library . . . . .      Name

Print options
Data to output . . . . . 1      1=User select + Changed fields
All fields are printed on Add/Delete. 2=Same. All fields on Add/Delete
                                         4=Key fields + Changed fields
                                         5=Same. All fields on Add/Delete
                                         8=User select
                                         9=All fields

Selection option
Define fields to ignore . Y      Y=Yes, N=No
Disregard update operation if only these fields were changed.
In addition, these fields are not included in online and printed reports.

F3=Exit   F4=Prompt   F12=Cancel
    
```

Add File Reporting Specification

Option	Description
File/Library	The file to be reported and its library. If you just enter the library, you can use F4 to select from a list of the files in the library.
Data to output	Select fields to output: 1 =User selected fields and all changed fields. 2 =User selected fields and all changed fields. All fields are printed after Add/Delete. 4 =Key fields and all changed fields (default) 5 =User selected fields and all changed fields. All fields are printed after Add/Delete. 8 =User selected fields 9 =All fields
Define fields to ignore	Y =Define fields whose changes will be ignored N = No ignore fields are defined
Define data conversions	Y =Define fields which should be converted for external display N =No fields are converted

Structure Setup



3. Define your parameters and press **Enter** to continue. If relevant, the **Select Output Fields** screen appears.

```
File: DEMODTAQ/SMZ2
Select Output Fields

Type choices, press Enter.

Seq.  Field      Description      Attributes
-----  -----
 1     ITEMNO     ITEM #          A      6
 2     SDESCR    DESCRIPTION (TRUNCATED)  A     12
 3     VEND#     ITEM VEND#     S      4, 0
 4     QTYOH     QTY ON HAND    B      5, 0
 5     QTYOO     QTY ON ORDER   B      3, 0
 6     PRICE     ITEM PRICE     P      5, 2
 7     PRCDAT    PRICE DATE YY.MM  S      6, 0
 8     PRCCHG    PRICE CHANGE IN-% P      5, 3
 9     SALES#    SALES MAN      P      2, 0
10     DESCR     DESCRIPTION     A     30
11     CSLSO1    1ST QUARTER SALES  P      6, 2
12     CSLSO2    2ND QUARTER SALES  P      6, 2
13     CSLSO3    3RD QUARTER SALES  P      6, 2
14     CSLSO4    4TH QUARTER SALES  P      6, 2
Bottom

F3=Exit      F12=Cancel
```

Select Output Field

4. Set the **Output Fields** sequence and press **Enter** to confirm.



```

Select Fields to Ignore
File: CUSTOMER/ADTSLAB

Type choices, press Enter.
1=Ignore
Sel. Field      Description      Attributes
  █ CUSTNO      Customer number  A      7
  █ CUSTNA      Company name     A     40
  -  REPNO      Rep identifier   A      5
  -  CONTAC      Name             A     30
  -  CPHONE      Telephone        A     17
  -  CFAX        Fax              A     17
  -  CADDR      Address          A     40
  -  CCITY       City             A     30
  -  CCOUNT      Country          A     20
  -  CZIP        Postal Code      A     10
  -  CZIPL0     PC location      A      1

F3=Exit          F12=Cancel          Bottom
    
```

Select Fields to Ignore

5. If relevant, define fields to be ignored and press **Enter** to confirm.
6. If relevant, define the Data Conversion fields and press **Enter** to confirm.

File Structure Modifications

Use this option to properly display files whose structure has changed, or have one or more internal descriptions. Keep each old or different structure as a file. AP-Journal automatically selects the appropriate structure.

You should keep existing reports that have filters for these files, to be used with old data kept in either containers or receivers.

1. Select **52. File Structure Modifications** from the **Applications, BizAlerts - Definitions** menu. The **Work with File Structure Modifications** screen appears.

Structure Setup



```
Work with File Structure Modifications
Keep past file structures to enable proper editing of preserved data.
Type options, press Enter.
  1=Modify  4=Remove
Position to . _____
Subset . . . _____
Replaceable
Opt File      Library  -- Valid Until --  Layouts  -- Use Structure --
█ DEMOPF     SMZ1    0001-01-01-00.00.00  Y  DEMOPF  SMZ1

F3=Exit  F6=Add new  F7=Un/Fold  F12=Cancel

Bottom
```

Work with File Structure Modifications

- 2. Type **1** to modify an existing definition or press **F6** to add a new one. The **Add File Structure Modifications** screen appears.

Structure Setup



Add File Structure Modifications

Use this screen to properly display files which their structure has changed, or have one or more internal descriptions. Keep each old or different structure as a file. The product will automatically select the appropriate structure.

File █ _____ Name
 Library _____ Name
 Description of change . . . _____
 The following applies until 0001-01-01-00.00.00.000000
 Year-Mo-Dy-Hr.Mi.Sc.MiliSc
 File with old structure . . _____ Name
 Library _____ Name
 Replaceable layouts (S/36). _____ Y=Yes N=No
 Supports Internaly Described Files (file structure varies per type of record).

You should keep existing reports that has filters for this file, to be used with old data kept in either containers or receivers.

Note that F17=Refresh in each filter will adjust to current field structure.

F3=Exit F4=Prompt F12=Cancel

Add File Structure Modifications

Option	Description
File/Library	The file to be modified and its library. If you just enter the library, you can use F4 to select from a list of the files in the library.
Description of change	Enter a meaningful description of the reason the file changed
The following applies until	The date until which this change is valid. Enter the date as: YYYY-MM-DD-hh.mm.ss.milisc Enter 0001-01-01-00.00.00.000000 for a change which has no expiry date
File/Library with old structure	The old structure of the file and its library. If you just enter the library, you can use F4 to select from a list of the files in the library.



Option	Description
Replaceable layouts (S/36)	Y = Yes N = No

3. Enter your parameters and press **Enter**.

Data Conversions

You can define routines which will convert fields from their internal representation to an acceptable external representation before they are displayed in journals. For example, you might convert a date field that is stored in YYYYMMDD format to be displayed in DD/MM/YYYY format. The conversion routine must be named *SMZJDTA/CVTnnnn*, where nnnn is the four digit conversion ID.

1. Select **55. Data conversions** from the **Applications, BizAlerts - Definitions** menu. The **Work with Data Conversions** screen appears.

```

Work with Data Conversions
Specify routines, which perform special conversions between field internal and
external representation. e.g. 1=CR, 2=DB. See STRSEU SMZJ/JRSOURCE CVT0000.
Type options, press Enter.
  1=Select  3=Copy  4=Delete          Position to. . . . . _____
  9=Explanation & Classification    Subset by text . . . . _____
Opt Id.  Description
█      21      ddd

F3=Exit  F5=Refresh  F6=Add new  F8=Print  F12=Cancel

Bottom
    
```

Work with Data Conversions

Journal Objects Care



2. Type **1** to modify an existing definition or press **F6** to add a new one. The **Add Conversion** screen appears.

Add Conversion

Type choices, press Enter.

Conversion Id. █

Description _____

F3=Exit F12=Cancel

Add Conversion

3. Enter the four digit **Conversion ID** that you used in the conversion routine name, a meaningful **Description** and press **Enter**.
4. You can also use option **9** in the **Work with Data Conversions** screen to add an Audit **Explanation and Classification**.

Journal Objects Care

Plan how to journal files and libraries.

Plan Object Journaling

You can plan journaling for file and data area objects. Use this option to create the plan and also to put the plan into action.

Create Plan

To create a journaling plan:

1. Select **71. Plan Object Journaling** from the **Applications, BizAlerts - Definitions** menu. The **Work with Object Journaling** screen appears.



```
Work with Object Journaling Plan
Type options, press Enter.          Position to . _____
  1=Modify  4=Remove  5=Check library  Subset . . . _____

Opt Library   Type      Object   Journal   Library
█ SMZV        *FILE    *ALL     *NONE
- SMZV        *FILE    AVG*     FSJRN     SMZ1DTA
_

F3=Exit      F6=Add new (based on cursor)  F12=Cancel

Bottom
```

Work with Object Journaling Plan

- 2. Type **1** to modify an existing definition or press **F6** to add a new one. The **Add Object Journaling Plan** screen appears. Some fields will be pre-populated according to the position of the cursor.



```

Add Object journaling Plan

Type choices, press Enter.

Library . . . . . SMZV          Name
Object type . . . . . *FILE      *FILE, *DTAARA
Object . . . . . █              Name, generic*, *ALL

Journal . . . . . *NONE          Name, *NOCHK, *ANY, *NONE
  Library . . . . .              Name

*NOCHK Do not check journaling status
*ANY   Ensure that the object is journaled
*NONE  Ensure that the object is not journaled

F3=Exit  F4=Prompt  F12=Cancel
    
```

Add Object Journaling Plan

Option	Description
Library	The file that contains the object you want to journal.
Object Type	*FILE *DTAARA
Object	Name = The name of the object you want to journal generic* = A group of objects you want to journal. For example, to journal all files that begin with MAS, enter MAS* *ALL = Journal all the objects of the selected object type in the library
Journal	Name = The name of the journal to use *NOCHK = Do not check the journaling status *ANY = Ensure that the object is journaled *NONE = Ensure that the object is not journaled
Library	The name of the library that contains the journal

Journal Objects Care



```

Start Journal Physical File (STRJRNPF)

Type choices, press Enter.

Physical file to be journaled . > AVGCNF      Name
Library . . . . . > SMZV      Name, *LIBL, *CURLIB
Journal . . . . . > SJRN      Name
Library . . . . . > SHZ1DTA  Name, *LIBL, *CURLIB
Record images . . . . . > *BOTH    *AFTER, *BOTH
Journal entries to be omitted . > *OPNCLO  *NONE, *OPNCLO

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Start Journal Physical File

Option	Description
Physical file to be journaled	The file you chose
Library	The library of the file you chose
Journal	The journal to receive the journal entries
Library	The library that contains the journal
Record images	* AFTER = Only record the after images * BOTH = Record both the before and after images
Journal entries to be omitted	* OPNCLO = Do not record the file opening and closing actions. * NONE = All actions are recorded.



```

Start Journal Object (STRJRNOBJ)

Type choices, press Enter.

Object . . . . . > RL#QCMDDFT      Name
Library . . . . . >  QGPL          Name, *LIBL, *CURLIB
Object type . . . . . > *DTAARA     *DTAARA, *DTAQ
Journal . . . . . > *SJRN         Name
Library . . . . . >  SMZ1DTA      Name, *LIBL, *CURLIB
Images . . . . . > *BOTH         *AFTER, *BOTH

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Start Journal Object

Option	Description
Object	The object you chose
Library	The library of the object you chose
Object type	Always *DTAARA
Journal	The journal to receive the journal entries
Library	The library that contains the journal
Images	*AFTER = Only record the after images *BOTH = Record both the before and after images

4. Enter your parameters and press **Enter**.
5. Repeat this procedure for every object to be journalled.



Check Object Journaling

You can check which libraries have objects with journal plans.

1. Select **72. Check Object Journaling** from the **Applications, BizAlerts - Definitions** menu. The **Work with Object Journaling Status** screen appears.

```
Work with Object Journaling Status

Type options, press Enter.          Position to . _____
1=Check                               Subset . . . _____

Opt Library
█ SMZV

F3=Exit                               F12=Cancel                               Bottom
```

2. Type **1** to check the status of the objects of a specific library. The **Work with Object Journaling Status** screen appears, (see [Work with Object Journaling Status](#)).

You can set the actual journal status of objects on this screen to be the planned status, as described from Step **3** onwards in procedure [Set Actual as Planned](#) on page **95**.

Set Journal As Planned

If you know which object you want to set to be journaled as planned, you can do this directly.

1. Select **73. Set Journal As Planned** from the **Applications, BizAlerts - Definitions** menu. The **Set Journal As Planned** screen appears.



```

Set Journal As Planned (SETJRPLN)

Type choices, press Enter.

Object . . . . . █          Name
Library . . . . .          Name
Object type . . . . . *FILE *FILE, *DTAARA
For planning of *ANY:
Journal to set to . . . . . *NOSET Name, *NOSET
Library . . . . .          Name
Prefer previous journal . . . *NO *YES, *NO

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
Bottom
    
```

Set Journal As Planned

Option	Description
Object	The object you chose
Library	The library of the object you chose
Object type	Always *DTAARA
Journal to set to	The journal to receive the journal entries
Library	The library that contains the journal
Prefer previous journal	*YES *NO

2. Enter your parameters and press **Enter**.



Receiver Auto Maintenance

- To work with IBM Journal Receivers, select **75. Receiver Auto Maintenance**. The **Work with Journal Receivers Maintenance** screen appears.

```

Work with Journal Receivers Maintenance

Type options, press Enter.
 1=Modify  4=Remove  5=Work with journal attributes
 6=Print journal attributes  7=Generate and attach a new receiver
                                Retain      Position to . . . _____
Opt Journal  Library  Daily  Days
█ FSJRN      SMZ1DTA  N      10   FileScope-UNDO system
  JRDEMO     SMZJDTA  N       5   AP-Journal demo
-  QSQJRN    FLGHT400 N      10   COLLECTION - created by SQL
-

F3=Exit  F6=Add New  F12=Cancel

Bottom
    
```

Work with Journal Receivers Maintenance

- If this screen is empty, press **F6** to add new Journal Receivers to the maintenance.



```

Add Journal Receivers Maintenance

Type choices, press Enter.

Journal . . . . . █ _____ Name
Library . . . . . _____ Name

Generate new receiver daily . . N           Y=Yes, N=No
This ensures that a new receiver is created at least once a day.

Journal retention period (days).  0           Days, 0=*NOMAX
Check backup before delete . .  Y           Y=Yes, N=No
This ensures that older receivers are automatically deleted.

Backup program (optional) . . . *NONE       Name, *STD, *NONE
Library . . . . . _____
A specified backup program may run before deleting old journal receivers.
It will backup data deleted after the retention period expires. Example
program is SMZJ/JRSOURCE JRJRNBP.

F3=Exit  F4=Prompt  F12=Cancel
    
```

Add Journal Receivers Maintenance

Building Journals and Receivers

You can use this option to access a number of standard journal commands all from the same menu. To access the menu, select **79. Building Journals and Receivers**. The **Journal Build and Maintain** menu appears.



```

JRBLJR                               Journal Build and Maintain          iSecurity/Journal
                                       System: S520

Select one of the following:

Journal build                          Journal Maintenance
11. Create Journal Receiver            21. Work with Journal
12. Create Journal                    22. Work with Journal Attributes
13. Start Journal Physical File        23. Print Journal Attributes
14. Start Journal Access Path          29. Generate and Attach a New Receiver

Selection or command
===> |

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F13=Information Assistant  F16=AS/400 main menu

```

The following options are available:

- Journal Build
 - **11. Create Journal Receiver** - runs the Create Journal Receiver (CRTJRNRCV) command
 - **12. Create Journal** - runs the Create Journal (CRTJRN) command
 - **13. Start Journal Physical File** - runs the Start Journal Physical File (STRJRNPF) command
 - **14. Start Journal Access Path** - runs the Start Journal Access Path (STRJRNAP) command
- Journal Maintenance
 - **21. Work with Journal**
 - **22. Work with Journal Attributes** - runs the Work with Journal Attributes (WRKJRNA) command
 - **23. Print Journal Attributes** - runs the Work with Journal Attributes (WRKJRNA) command
 - **29. Generate and Attach a New Receiver** - runs the Change Journal (CHGJRN) command

Journal Objects Care



For full details of the available parameters for each command, see the appropriate IBM documentation.

Journal Objects Care



Working with Report Schedule





Chapter 5: Working with Report Scheduler

Report Scheduler

The Report Scheduler allows you to run pre-defined “report groups” automatically according to a fixed schedule.

A report group is comprised of one or more individual queries, reports or Activity Log inquiries that are executed together at a designated time. Grouping of reports in this manner is more efficient because the scheduling details and other run-time parameters need only be defined once for the entire group.

The first step in the Report Scheduler definition process is to define the report group. The report group definition consists of a group name, description and several run time parameters that apply to each report in the group.

Define Report Schedules

1. Select **12. Reports, Scheduler etc.** from the **Application Journal** main menu. The **Reporting, Scheduler etc.** menu appears.

```

JRW RPT                               Reporting, Scheduler etc.           iSecurity/Journal
                                                                      System: S520

Reports
 1. Work with Reports - Data
 2. Work with Reports - Definitions
 5. Work with Report Scheduler
 6. Run a Report Group
 9. Display Action Log

Definitions
31. Actions
35. Groups and Items
36. Time Groups

Selection or command
===> █

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F13=Information Assistant  F16=AS/400 main menu
  
```

Reporting, Scheduler etc. Menu

Report Scheduler



2. Select **5. Work with Report Scheduler** from the **Reporting, Scheduler etc.** menu. The **Work with Report Scheduler** screen appears.

```
Work with Report Scheduler
Subset by name . . *ALL
Position to . . .
Type options, press Enter.
1=Select 2=Add 3=Copy 4=Delete 5=Run
Opt Group  Seq  Description
█ DAILY    DAILY Update
MARCH     MARCH Report
-         2 JR Display Application DB Updates
-         3 JR Display DB Journal
-         4 JR Display Application Journal
-         5 JR Display Set of Files Journal
-         6 JR Display Application DB Updates
F3=Exit  F5=Refresh  F6=Add New Group  F8=Print  F12=Cancel
Bottom
```

Work with Report Scheduler

3. Press **F6** to create a new report group or type **1** to select an existing group. The **Add Report Group** screen appears.



```

Add Report Group

Report groups are intended to run pre-defined sets of reports automatically
on a periodic basis.
If ZIP(*YES) is specified, all PDF, HTML, CSV will be sent together.
Other individual reports parameters, if defined, override group parameters.
The use of descriptive date values *YESTERDAY, *WEEKSTR... is recommended.

Type choices, press Enter.
Report Group name . . . . . _____ Name e.g. DAILY, WEEKLY, MONTHLY etc.
Description . . . . . _____

Press Enter to continue to the Define Parameters screen.

F3=Exit                               F12=Cancel
    
```

Add Report Group

4. Press **Enter** to continue to the **Define JR Report Group Details** screen.

```

Define JR Report Group Details (DFNJRGRPD)

Type choices, press Enter.

Starting date and time:
Starting date . . . . . *CURRENT Date, *CURRENT, *YESTERDAY...
Starting time . . . . . 000000 Time
Ending date and time:
Ending date . . . . . *CURRENT Date, *CURRENT, *YESTERDAY...
Ending time . . . . . 235959 Time
User . . . . . *ALL Name, generic*, *ALL
Program name . . . . . *ALL Name, generic*, *ALL
Output . . . . . *PRINT *PRINT, *PRINT1-*PRINT9

Additional Parameters

Job description. . . . . QBATCH Name, *NONE
Library . . . . . *PRODUCT Name, *PRODUCT, *LIBL...

Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
    
```



Define JR Group Details

5. Press **Enter** to continue to the **Add Job Schedule Entry** screen.

```

Add Job Schedule Entry (ADDJOBSCDE)

Type choices, press Enter.

Job name . . . . . > JR@WEEKLY      Name, *JOB
Frequency . . . . . > WEEKLY      *ONCE, *WEEKLY, *MONTHLY
Schedule date . . . . . > *NONE     Date, *CURRENT, *MONTHSTR...
Schedule day . . . . . > *ALL       *NONE, *ALL, *MON, *TUE...
                        + for more values
Schedule time . . . . . > 230000     Time, *CURRENT

                        Additional Parameters

Job description . . . . . > *USRPRF   Name, *USRPRF
Library . . . . .           Name, *LIBL, *CURLIB

F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
Bottom
    
```

Add Job Schedule Entry

NOTE: The Schedule Date and Schedule Day fields are mutually exclusive. If you use one, you must set the other to the value '*NONE'. Other fields may appear on this screen, which is associated with the IBM i (OS/400) CHGJOBSCDE command. These fields are not relevant under most circumstances.

6. Press **Enter** to complete the definition and return to the **Work with Report Scheduler** screen.
7. Type **2=Add** to add reports to the new group.

Report Scheduler



Add Report Definition

Reports in a group run periodically, as per the group definition.
Parameters defined in the Group, override the same ones defined for reports.

Group WEEKLY Weekly Update

Type choices, press Enter.

Report Id. 1
Description
Report command /*SELECT SELECT
Report parameters . . .

F3=Exit F4=Set Parameters F7=Select Command F12=Cancel

Add Report Definition

Option	Description
Report ID	Numeric ID automatically assigned by the AP-Journal
Description	Free text description of the report
Report Command (F4)	Press F4 to select report type from a pop-up window

8. Define run time parameters for the report and press **Enter**. The actual parameters available are specific to the report type.

Report Scheduler



```

                                Add Report Definition
Reports in a group run periodically, as per the group definition.
Parameters defined in the Group, override the same ones defined for reports.

Group WEEKLY      Weekly Update
-----
Type ch :                               List of Report Commands :
:                                           :
Repor : Type option, press Enter.      :
Descr : 1=Select                        :
Repor :                               :
: Opt                                   Command :
Repor : █ JR Display Application DB Updates  DSPAPCRJ :
:      - JR Display Application Journal     DSPAPJRN :
:      - JR Display DB Journal             DSPBJRN :
:      - JR Display Set of Files Journal    DSPBSJR  :
:                                           :
:                                           :
:                                           Bottom :
:                                           :
: F3=Exit  F12=Cancel                    :
F3=Exit :                               :
-----

```

Add Report Definition

9. Press **Enter** to finish the definition and return to the **Work with Report Scheduler** screen.

Run Report Groups

1. Select **6. Run a Report Group** from the **Reporting, Scheduler etc.** menu. The **Run Report Group** screen appears.

Definitions



```
Run Report Group (RUNRPTGRP)

Type choices, press Enter.

Report group . . . . . weekly
Job description . . . . . QBATCH
Library . . . . . *PRODUCT

Name
Name, *NONE
Name, *PRODUCT, *LIBL...

Bottom
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
```

Run Report Group

2. Enter the **Report Group**, the **Job Description** and **Library** for the reports to be run and press **Enter**. Your chosen reports will be run.

Definitions

You can define specific actions to be performed every time a Journal report is produced, Groups of reports to run together, and Time Groups to be used to schedule reports.

Actions

This section discusses the steps necessary in order to define the actions that are triggered by a rule. Actions can consist of alert messages and/or command scripts that perform one or more specific activities.

1. Select **31. Actions** from the **Reporting, Scheduler etc.** menu. The **Work with Actions** screen appears.

Definitions



```
Work with Actions
Position to: _____
Type options, press Enter.
  1=Select  3=Copy  4=Delete  7=Rename  8=Where used

Opt Action      Description
█ ALEX162111    Created by Action
- AU122021QP    Created by Action
- AU122552QP    Created by Action
- JR115135QP    Created by Action
- JR173552IL    Created by Action
- QSEC130222    Created by Action
- TEST          test
- TSTACT

F3=Exit  F6=Add new  F12=Cancel  Bottom
```

Work with Actions

- 2. Press **F6** to create a new action or type **1** to select an existing action. The **Add Alert** screen appears.

Definitions



Option	Description
Recipient Address	Recipient address formatted according to message type (See following table)

Message Type	Recipient Address Format
1	E-mail address in standard e-mail format (recipient@address)
2	Fully qualified name of the message queue or *SYSOPR
3	User profile or IBM i (OS/400) group profile
4	User profile & SNA address separated by a space (for example, USER SYSTEM)
5	Valid network user name or *DOMAIN for all users on your domain
6	Phone number including country code and area code as necessary
7	Phone number and access codes for the pager service
8	Leave blank; the SYSLOG message will be sent according to the definitions in option 21. Syslog Definitions in the System Configuration menu (see Syslog Definitions on page 139 for more details).
9	Leave blank; the SNMP message will be sent according to the definitions in option 22. SNMP Definitions in the System Configuration menu (see SNMP Definitions on page 140 for more details).
T	Leave blank, the Twitter message will be sent according to the definitions in option 23. Twitter Definitions in the System Configuration menu (see Twitter Definitions on page 141 for more details).

3. Enter your parameters and press Enter. The **Edit Action Script** screen appears.



```

Edit Action Script

Action . . SEND_EMAIL

Type choices, press Enter.
Note: Add quotes where needed. e.g. CALL PGM PARM('&PARM01' '&PARM02').
Order Label      Command, GOTO label (unconditional)
1.00 _____
                On error, go to label . . _____
2.00 _____
                On error, go to label . . _____
3.00 _____
                On error, go to label . . _____
4.00 _____
                On error, go to label . . _____
More...
F3=Exit F4=Prompt F7=Replacement variables F8=Replacement job F12=Cancel
    
```

Edit Action Script

4. Define one or more command scripts to be run and press **Enter** to confirm.

Groups and Items

Define assorted groups of reports in line with your requirements, to schedule a particular group of reports to run as one unit sometime in the future.

The %GROUP is used for defining a group of user-profiles that all share the same authorities.

This solution enables defining GROUPS by GROUP-TYPES. These GROUP-TYPES can be any system entity such as files, libraries, applications, identification numbers, and so on

For each GROUP-TYPE, you can define an unlimited number of GROUPS and within the GROUPS, any number of items can be defined. For example, you can define all identification numbers of the PCs in the organization as one group in the GROUP-TYPE defined as MACHINE_ADDRESS. Another group in MACHINE_ADDRESS may contain all the identification numbers of the PCs in a sister organization.

In all comparison tables, for defining rules, for generating and selecting queries, or for defining the items in reports, you can use the ITEM GROUP-TYPE/GROUP syntax to

Definitions



include only those transactions that contain the GROUP-TYPE/GROUP specified. Likewise, you can use the NITEM GROUP-TYPE/GROUP to include only those transactions that do not contain the GROUP-TYPE/GROUP defined.

In addition, there are special GROUPS available to you, such as groups of users already defined on the system, all of which have a common identifying characteristic. For example, the group profile of the system, group profiles defined in **Firewall**, and virtual groups of users named *SECADM, *SAVESYS and so on, which are the users who have this particular privilege defined in their special authority.

To define Groups and Items:

1. Select **35. Groups and Items** from the **Reporting, Scheduler etc.** menu. The **Work with Classes of Groups** screen appears.

```

JRWRPT                               Reporting, Scheduler etc.          iSecurity/Journa
:-----:-----:-----:-----:-----:-----:-----:-----:-----:
:                               Work with Classes of Groups           :
:                               :                                       :
: Type options, press Enter.   Position to . . . _____ :
: 1=Work with 2=Edit 4=Remove  Subset . . . . . _____ :
:                               :                                       :
: Opt Class      Description                                           Item Length :
: *GRPPRF       User is included in Group/Supplemental profile         10 :
: *LMTCPB       User Limit Capabilities                               10 :
: *SPCAUT       User has a Special Authority                           10 :
: *TIMEGRP      Date & Time is within Time Group                       10 :
: *USRGRP       User is included in iSecurity/Firewall Group           10 :
: - COMMANDS    Classes of commands                                    10 :
: - IPADDR      IP addresses groups                                    15 :
: - LIBRARIES   Groups of libraries                                    10 :
: - PROGRAMS    Production                                            20 :
:                               More... :
: *CLASsEs are automatically defined by the system. Press F6 for instructions :
: F3=Exit  F6=Add New (plus instructions)  F8=Print  F12=Cancel :
:-----:-----:-----:-----:-----:-----:-----:-----:-----:
F13=Information Assistant  F16=AS/400 main menu
  
```

Work with Classes of Groups

2. Press **F6** to add a new class or type **1** to modify an existing class to your needs. The **Add Class** screen appears.

Definitions



```
JRWRPT Reporting, Scheduler etc. iSecurity/Journa
:
: Add Class
:
: Type choices, press Enter.
:
: Class . . . . . █ e.g. USERS, IP, COMMANDS, FILES...
:
: Text . . . . . _____
:
: Maximum item length . _ 1 - 20
:
: Group-Classes (such as USERS, IPS, FILES) consist of individual Groups.
: For example, Group-Class USERS could consist of groups HR, ERP, etc. These
: groups are useful when you want to limit a report or a rule to only the
: USERS listed in USERS/HR who accessed files listed in FILES/SENSITIVE.
: To use, enter ITEM or NITEM ("item of" or "not item of") in the TEST
: column of the report's Filter Conditions; then press F4 in VALUE column.
: F3=Exit F12=Cancel
:
:
:
:
: F13=Information Assistant F16=AS/400 main menu
```

Add Class

3. Enter a **Class**, **Text** and the **Maximum item length**.
4. Press **Enter**. The **Work with Groups** screen appears.

Definitions



```
Define Time Groups
Type options, press Enter.
  1=Select  4=Delete

Opt Time Group  Description
█ SHIFT1      Shift 1
- WORKHOURS   Regular work hours

F3=Exit  F6=Add new  F8=Print  F12=Cancel  Bottom
```

- 2. Type **1** to select an existing time group to modify or press **F6** to create a new time group.

Definitions



Add Time Group

Time Group . . . █ _____

Description . . . _____

Type choices, press Enter

	Start	End	Start	End
Monday	0:00	0:00	0:00	0:00
Tuesday	0:00	0:00	0:00	0:00
Wednesday	0:00	0:00	0:00	0:00
Thursday	0:00	0:00	0:00	0:00
Friday	0:00	0:00	0:00	0:00
Saturday	0:00	0:00	0:00	0:00
Sunday	0:00	0:00	0:00	0:00

Note: An End time earlier than the Start time refers to the following day.
Example: Monday 20:00-08:00 means from Monday 20:00 until Tuesday 08:00

F3=Exit F8=Print F12=Cancel F13=Repeat time F14=Clear time

Parameter/Option	Description
Time Group	Enter a meaningful name for the Time Group. This field is mandatory.
Description	Enter a meaningful description of the Time Group.
Start and End	For each relevant day of the week, enter Start and End Times in the format HH:MM, using the 24-hour clock. Midnight is 00:00. Note: An End time earlier than the Start time refers to the following day. For example: Monday 20:00-08:00 means from Monday 20:00 until Tuesday 08:00.
F13	Copies the starting and ending times from the cursor line to all subsequent lines
F14	Erases the starting and ending lines from the cursor line and below

Definitions



3. Enter parameters as described in the table and press **Enter**.

Definitions



Review Database Changes



Chapter 6: Reviewing Database Changes

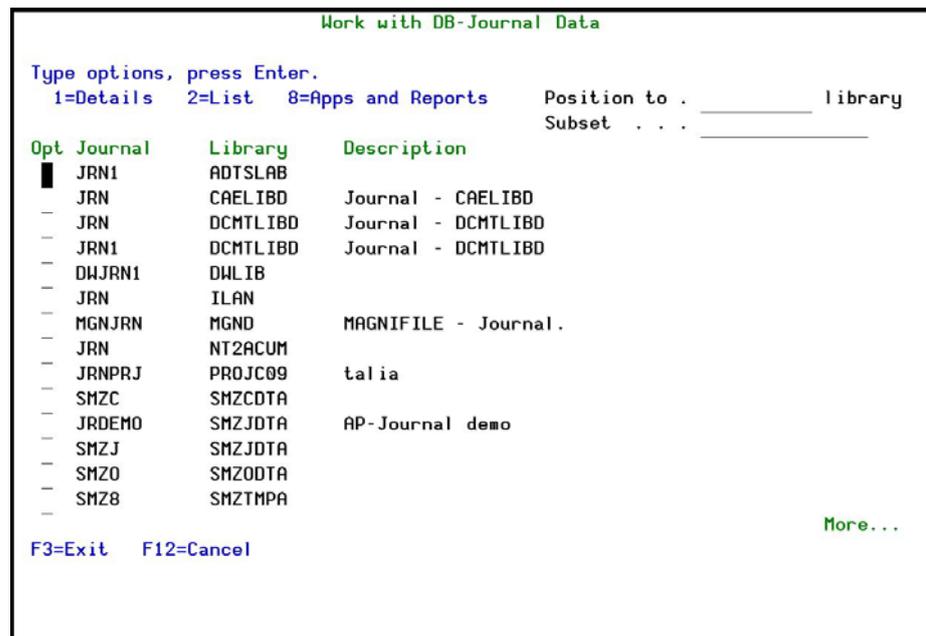
Database Journals

You can see all the journals that exist on your organization’s computers, work with the journals of a specific database and you can also check the changes performed on a specific file.

Work with Database Journals

To work with Database Journals:

1. Select **51. Work with DB-Journals** from the **Application Journal** main menu. The **Work with DB-Journal Data** screen appears.



Work with DB-Journal Data

2. Select **1** to work with *Journal Details*, **2** to work with *Journal Lists*, or **8** to work with *Applications and Reports*.



Journal Details

To work with Journal Details:

1. Select the Journal you want to work with in the **Work with DB-Journal Data** screen and type **1**. The **Display APP Current Journal** screen appears.

```

Display APP Current Journal (DSPAPCRJ)

Type choices, press Enter.

Display last minutes . . . . . BYTIME      Number, *BYTIME
Starting date and time:
  Starting date . . . . . CURRENT      Date, *CURRENT, *YESTERDAY...
  Starting time . . . . . 000000      Time
Ending date and time:
  Ending date . . . . . CURRENT      Date, *CURRENT, *YESTERDAY...
  Ending time . . . . . 235959      Time
User profile . . . . . ALL          Name, *ALL
Program name . . . . . ALL          Name, *ALL
Job name . . . . . ALL            Name, *ALL
  User . . . . . _____      Name
  Number . . . . . _____      000000-999999
Number of records to process . . NOMAX      Number, *NOMAX
Output . . . . . *                *, *PRINT, *PDF, *HTML..

                                           Bottom
F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```

Option	Description
File	Name of file to display
Library	Name of library to display
Display last minutes	Last N minutes to display



Option	Description
Starting/Ending date and time	Select only those records occurring within the range specified by the starting and ending time specified below * CURRENT = The current date (day the report runs) * YESTERDAY = The day before the current date * WEEKSTR = Beginning of the current week * PRVWEEKSTR = Beginning of the previous week * MONTHSTR = Beginning of the current month * PRVMONTHSTR = Beginning of the previous month * YEARSTR = Beginning of the current year * PRVYEARSTR = Beginning of the previous year * MON - * SUN = Day of the current (or previous) week
User Profile	User profile who updated the file.
Program name	Name of the program used to change the file's information
Job name	Name of the job that changed the file's information
Number of records to process	Insert a number or * NOMAX
Output	* PRINT - to print * PRINT1 - * PRINT9 * PDF * HTML * CSV * OUTFILE * - to display only

2. Enter your parameters and press **Enter**. The report is sent to the selected output format.

Journal Lists

To work with Journal Lists:

1. Select the Journal you want to work with in the **Work with DB-Journal Data** screen and type **2**. The **Display APP Current Journal** screen appears (see *Journal Details* for screenshot and parameter details).
2. Enter your parameters and press **Enter**. The report is sent to the selected output format.



Applications and Reports

To work with Applications and Reports:

1. Select the Journal you want to work with in the **Work with DB-Journal Data** screen and type **8**. The **Applications and Reports for Journal** screen appears.

```

Applications and Reports for Journal SMZJDTA/JRDEMO
Type options, press Enter.                               System: S520
1=Select 3=Copy 4=Delete 5=Display (Receivers) 6=Display (Containers)
8/9=Enable/Disable application S/E/D=Start/End/Display real-time collection
X=Explanation & Classification      Position to . . . .
Subset by text . . .
by classification. _ A=Agent...

█ = Collecting
Opt  Name App
█   ACTST Y Test Action log
-   ACTS2  Test Action log
-   ADEMO  Y Changes using unauthorized programs
-   DEMOA  Y
-   DEMOE  Y Demo application
-   HLIVE  Y Changes using unauthorized programs
-   ITALY  Y Demo

F3=Exit  F5=Refresh  F6=Add New

Bottom
F12=Cancel
    
```

Applications and Reports for Journal

2. See [Creating a new set of files](#) on page 53 for details on working with this screen.

File Journals

You can produce a list of changes performed on a specific file and also a full detailed report of the changes.

File Journal Lists

To produce a list of changes:

1. Select **52. Display File Journal - List** from the **Application Journal** main menu. The **Display File Journal** screen appears.



```

Display File Journal (DSPDBJRN)

Type choices, press Enter.

File . . . . . █ Name
Library . . . . . *LIBL Name, *LIBL, *CURLIB
                               *LIBL
Display last minutes . . . . . *BYTIME Number, *BYTIME
Starting date and time:
Starting date . . . . . *CURRENT Date, *CURRENT, *YESTERDAY...
Starting time . . . . . 000000 Time
Ending date and time:
Ending date . . . . . *CURRENT Date, *CURRENT, *YESTERDAY...
Ending time . . . . . 235959 Time
User profile . . . . . *ALL Name, *ALL
Program name . . . . . *ALL Name, *ALL
Job name . . . . . *ALL Name, *ALL
User . . . . . Name
Number . . . . . 000000-999999

More...
F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
F13=How to use this display F24=More keys
    
```

Display File Journal

Option	Description
File	Name of file to display
Library	Name of library to display
Display last minutes	Last N minutes to display



Option	Description
Starting/Ending date and time	Select only those records occurring within the range specified by the starting and ending time specified below *CURRENT = The current date (day the report runs) *YESTERDAY = The day before the current date *WEEKSTR = Beginning of the current week *PRVWEEKSTR = Beginning of the previous week *MONTHSTR = Beginning of the current month *PRVMONTHSTR = Beginning of the previous month *YEARSTR = Beginning of the current year *PRVYEARSTR = Beginning of the previous year *MON - *SUN = Day of the current (or previous) week
User Profile	User profile who updated the file.
Program name	Name of the program used to change the file's information
Job name	Name of the job that changed the file's information
Number of records to process	Insert a number or *NOMAX
Output	*PRINT - to print *PRINT1 - *PRINT9 *PDF *HTML *CSV *OUTFILE * - to display only

2. Enter your parameters and press **Enter**. The report is sent to the selected output format.

File Journal Details

To produce a list of change details:

1. Select **53. Display File Journal - Details** from the **Application Journal** main menu. The **Display File Journal** screen appears (see *File Journal Lists* for screenshot and parameter details).
2. Enter your parameters and press **Enter**. The report is sent to the selected output format.

File Journals





System Configuration and Maintenance



Chapter 7: Configuration and Maintenance

System Configuration

This option presents general definitions relating to marking of the changed field, SMS and E-mail definitions, SEM definitions, and language support. You access System configuration by selecting **81. System Configuration** from the **AP-Journal** main menu. The **System Configuration** menu appears. Press **F22** to enter the authorization code.

```
iSecurity/Journal System Configuration 14/07/15 14:26:28

Select one of the following:

Journal
  1. General Definitions

Action
  11. General Definitions
  12. SMS Definitions

Security Event Manager (SEM)
  21. Syslog Definitions
  22. SNMP Definitions
  23. Twitter Definitions

                                General
                                91. Language Support
                                99. Copyright Notice

Selection ==> █

Release ID . . . . . 08.47 15-06-17 440E466 520 7459
Authorization code . . . . . ██████████ 1 S520

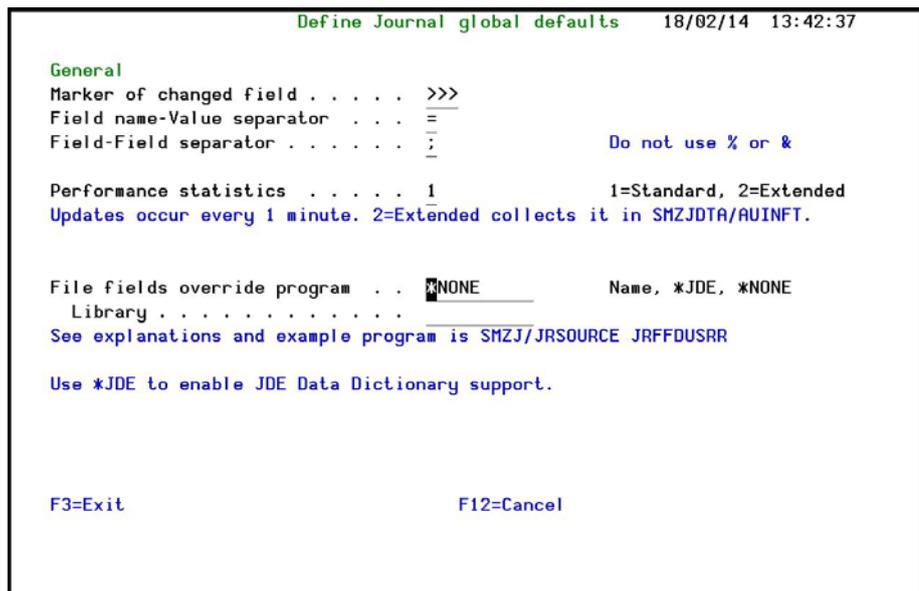
F3=Exit  F22=Enter Authorization Code
```

System Configuration



Journal General Definitions

1. Select **1. General Definitions** from the **System Configuration** menu to define the general preferences of the file appearance. The **Define Journal global defaults** screen appears.



Define Journal global defaults

Option	Description
Marker of changed field	The character you want to use to indicate changed fields.
Field name-value separator	The character you want to use to separate the field name from its value.
Field-Field separator	The character you want to use to separate one field from another. You should not use % or & .
Performance statistics	1 =Standard 2 =Extended The updates occur every 60 seconds. Extended performances are collected in <i>SMZJDTA/AUINFT</i> .



Option	Description
File fields override program and library	You can use a program to replace the TEXT of the fields, or even provide a non DDS record structure. An example program source is available at <i>SMZJ/JRSOURCE JRFFDUSRR</i> . If you want to enable JDE Data Dictionary support, enter *JDE .

2. Enter your required parameters and then press **Enter** to confirm.

Action Definitions

General Definitions

1. Select **11. General Definitions** from the **iSecurity/Base System Configuration** menu. The **Action General Definitions** screen appears.

```

Action General Definitions                26/02/14 16:16:22

Type options, press Enter.

Log Action activity . . . . . N          N=No, Y=Yes
Use DSPMSG SMZJDTA/JRACTLOG to display activity.

Log CL script commands . . . . . 1      1=No, 2=Fail, 3=All

F3=Exit F12=Previous
    
```

Action General Definitions



Option	Description
Log Action activity	Y = Yes N = No Use <i>DSPMSG SMZJDTA/JRACTLOG</i> to display activity.
Log CL script commands	1 = No - do not log any CL script commands 2 = Fails - log only CL script commands that fail 3 = All - log all CL script commands

2. Enter your required parameters and press **Enter**.

SMS Definitions

SMS messages are supported in real-time actions and will work in different ways for different suppliers.

NOTE: *SMS support requires configuration together with a local SMS supplier before use.*

Every supplier carries its own restrictions and modality. The current interface was developed according to a certain supplier. Users can develop their own interfaces according to the local suppliers. The interface should be developed in a program named *XXALR6R* and receives two parameters:

- 64 Alpha = destination
- 1000 Alpha = message



1. Select **12. SMS Definitions** from the **iSecurity/Base System Configuration** menu. The **SMS Definitions** screen appears.

SMS Definitions 26/02/14 17:48:28

Type options, press Enter.

Sender █ _____

User _____

Password _____

Provider Id. _____

F3=Exit F12=Cancel

SMS Definitions

Option	Description
Sender	Type the SMS Supplier description. This information will be available for the agent/customer and will be encrypted and not displayed in the screen.
User	Enter user name in case that authentication is needed. This field is encrypted and will not be displayed in the message.
Password	Enter a password in case that authentication is needed. This field is encrypted and will not be displayed in the message.
Provider Id	This field is used in order to individualize the supplier

2. Enter your required parameters and press **Enter**.



Security Event Management

Numerous iSecurity products integrate with SEM/SIEM systems by sending security alerts instantaneously to these systems; web-based alerts are supported using Twitter <https://twitter.com/> (can transmits up to 1000 lines per second). Message alerts contain detailed event information about application data changes, deletes or reads of objects and files, emergency changes in user authorities, IFS viruses detected, malicious network access to the System i, and more.

Syslog Definitions

This feature sends events from the IBM i different Audit entry types to a remote SYSLOG server according to range of severities such as emergency, alert, critical, error, warning and more.

If **Send SYSLOG messages** is set to **Yes** in the SIEM definitions, the product will automatically send all events according to the Severity range to auto send parameter (list below); the message structure parameter is used to set the format of the message.

1. Select **21. Syslog Definitions** from the **iSecurity/Base System Configuration** menu. The **SYSLOG Definitions** screen appears.

SYSLOG Definitions 26/02/14 18:42:07

SYSLOG Support

Send SYSLOG messages

Destination address 1.1.1.164

"Facility" to use 23 LOCAL USE 7 (LOCAL7)

"Severity" range to auto send . 0 - 5 Emergency - NOTICE (SIGNIFICANT)

Note: SNDSYSLOG command is not controlled by Severity Range setting.

Convert data to CCSID 0 0=Default, 65535=No conversion

Maximum length 1024 128-9800

Message structure &8 &9 &4: &1

Mix Variables and constants (except &, %) to compose message:

&1=First level msg

&3=Msg Id.	&4=System	&5=Module
&6=Prod Id.	&7=Entry type	&8=Host name
&H=Hour	&M=Minute	&S=Second
&d=Day in month	&m=Month (mm)	&y=Year (yy)
&a/&A=Weekday (abbr/full)	&b/&B=Month name (abbr/full)	

F3=Exit F12=Cancel



Syslog Definitions

Option	Description
E-mail Method	<p>1=Advanced 2=Native 3=Secured 9=None</p> <p>The Advanced or Secured mode is recommended for simplicity and performance reasons.</p> <p>If using 2=native, Users must be defined as E-mail users prior to using this screen. The required parameters may be found by using the WRKDIRE command. This option does not support attached files.</p>
Mail (SMTP) server name	The name of the STMP server or *LOCALHOST
Reply to mail address	The e-mail address to receive replies.
E-mail user and password	If you chose 1 = Advanced or 3=Secured for the E-mail method, enter the email user that will be used to send the emails and the password of that user
E-mail User ID and Address	If you chose 2=Native for the E-mail method, enter the user ID and address that will be used to send the emails.
User Profile	If you chose 2=Native for the E-mail method, enter the user profile that will be used to send the emails.

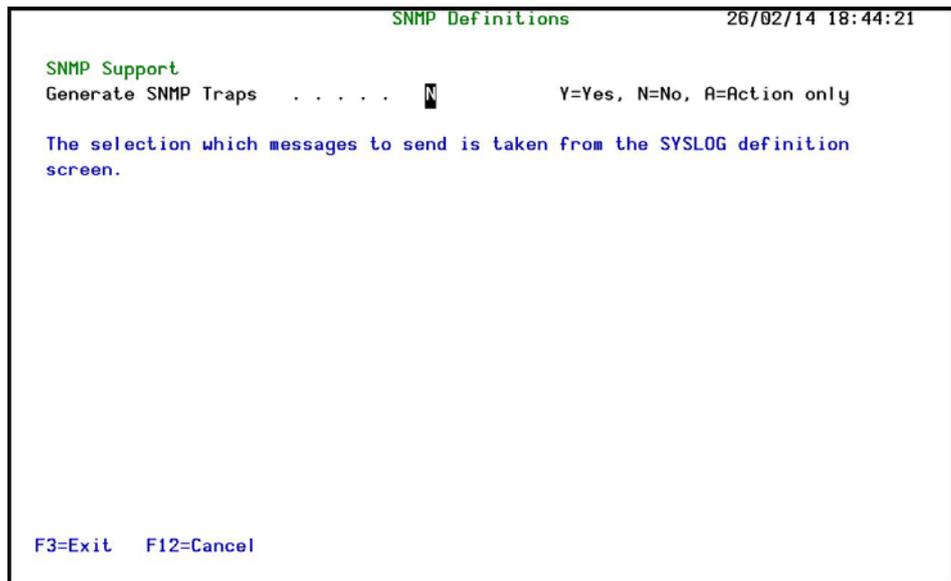
2. Enter your required parameters and then press **Enter** to confirm.

SNMP Definitions

You can use SNMP traps to supplement your SIEM data and increase security on your system.



1. Select **22. SNMP Definitions** from the **iSecurity/Base System Configuration** menu. The **SNMP Definitions** screen appears.



Option	Description
Generate SNMP Traps	<p>Y = Yes N = No A = Actions Only</p> <p>The selection of which messages to send is taken from the Syslog definitions (see Syslog Definitions on page 139 for more details).</p>

2. Type **Y** to generate SNMP traps to monitor network attached devices for conditions that warrant administrative attention.
3. Enter your required parameters and then press **Enter** to confirm.

Twitter Definitions



1. Select **23. Twitter Definitions** from the **iSecurity/Base System Configuration** menu. The **Twitter Definitions** screen appears.

```

Twitter Definitions                                     26/02/14 18:45:34

Type options, press Enter.

Twitter Enablement . . . . 1          1=Send, 9=None

Twitter User ID . JohnSmith█
Consumer key . . *****
Consumer secret . *****
Access token . . *****
Token secret . . *****

To enter the information requested above, you need to configure an appropriate
Twitter application which establishes the synchronization to Twitter.
- Log in to your Twitter account at https://dev.twitter.com/apps
- Create an application e.g. Raz-Lee iSecurity
- From My-Applications, select the application to display its details.
- Copy Consumer-Key, Consumer-Secret, Access-Token and Access-Token-Secret

See full guide at: http://www.razlee.com/twitter/working-with-twitter.pdf

F3=Exit  F12=Cancel
    
```

Twitter Definitions

Option	Description
Twitter Enablement	1 = Send 9 = None
Twitter User ID	The Twitter account you use to send messages.
Consumer Key	Use the value you received when you created the application.
Consumer Secret	
Access Token	
Access Secret	

2. Enter your required parameters and then press **Enter** to confirm.
To enter the information requested above, you need to configure an appropriate Twitter application that establishes the synchronization to Twitter.

System Configuration



1. If necessary, create a Twitter account.
2. Log in to your Twitter account at <https://dev.twitter.com/apps>.
3. Create an application.
4. From **My applications**, select the application to display its details.
5. Copy the **Consumer-Key**, **Consumer-Secret**, **Access-Token**, and **Access-Token-Secret** fields.

For full instructions, see this guide: <http://www.razlee.com/twitter/working-with-twitter.pdf>.

Language Support

Double-Byte Character Set (DBCS) is a set of characters in which each character is represented by two bytes. These character sets are commonly used by national languages, such as Japanese and Chinese, which have more symbols than can be represented by a single byte.

There are two options: the default setting of 'N' (do not support DBCS), and 'Y' (support DBCS). Choose an option based on the relevant national language.

To work with iSecurity Language Support:

1. Select **91. Language Support** from the **System Configuration** screen. The **Journal Language Support** screen appears.



```
Journal Language Definitions

Type options, press Enter.

Right to left language system . . Y          Y=Yes, N=No
DBCS system . . . . . N          Y=Yes, N=No

Override HTML, CSV etc. Attributes
Target CCSID . . . . . 1255
HTML Character set . . . . . WINDOWS-1255

Special consideration for DBCS/non-Latin languages
CCSID to use as origin of data . 0

Replacement of special characters. %]
(original value) [ ]..+...1...+...2...+...3...+...4

F3=Exit  F12=Cancel
```

Journal Language Definitions

- 2. Set your desired parameters and press **Enter** to confirm.

Maintenance



Maintenance

The **Maintenance Menu** enables you to set and display global definitions for **AP-Journal**. To access the **Maintenance Menu**, select **82. Maintenance Menu** from the main menu. The **Maintenance Menu** appears.

```
JRMINTM                               Maintenance Menu                               iSecurity/Journal
                                                                              System: S520

Select one of the following:

Global                                Trace Definition Modifications
 1. Export Definitions                 71. Add Journal
 2. Import Definitions                 72. Remove Journal
 3. Delete Statistics Data             79. Display Journal

Journal Specific
21. Set *CSV Output Fields Order

                                      Uninstall
                                      98. Uninstall

Selection or command
===> █

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F13=Information Assistant  F16=AS/400 main menu
```

Maintenance Menu

Global Definitions

This option is useful in transferring configuration settings/definitions from one computer to another, or between LPARs.

Among the settings and definitions that **AP-Journal** can export and import are the following:

- IP addresses
- System names (SNA)
- Users
- Groups
- Application
- Location

Maintenance



- Native & IFS
- Logon controls for FTP-TELNET-Passthrough
- Prechecks DDM-DRDA
- Time groups

Export Definitions

Create an SAVF file containing the definitions and settings you want to import:

1. Select **1. Export Definitions** from the **Maintenance Menu** screen. The **Export iSecurity/Part 4 Defns.** screen appears.

```

Export iSecurity/Part 4 Defns. (EXPS4DFN)

Type choices, press Enter.

Collection type . . . . . █          *NEW, *ADD
Work library and SAVF in QGPL . *AUTO      Name, *AUTO (S4 + System)
Application/Report options . . *SAME      *ADD, *REPLACE, *SAME
  Applications/Reports . . . . *ALL       Name, generic*, *ALL
Action options . . . . . *SAME      *ADD, *REPLACE, *SAME
General options . . . . . *SAME      *ADD, *REPLACE, *BYSUBJECT...

Update remote systems:
  Systems to update . . . . . *NONE     Name, *group, *ALL, *NONE
  Update type . . . . . *UPD         *UPD, *REPLACE
iSecurity password or *PROMPT .

                                                    Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
  
```

Export iSecurity/Part 4 Defns. (EXPS4DFN)

Option	Description
Collection type	*NEW = *ADD =



Option	Description
Work library and SAVF in QGPL	Destination of export library S4 is default setting
Application/Report options	* ADD = add to a previously imported/exported rule * REPLACE = replace a previously imported/exported rule * SAME = do not make any changes to Action options
Applications/Reports	Name = Name of the application/report to be exported * ALL = Export all applications/reports
Action options	* ADD = add to a previously imported/exported rule * REPLACE = replace a previously imported/exported rule * SAME = do not make any changes to Action options
General options	* ADD = add to a previously imported/exported rule * REPLACE = replace a previously imported/exported rule * BYSUBJECT = import/export rules by subject (IP address, etc.) * SAME = do not make any changes to General options
Update remote systems:	Systems to update = When exporting Firewall definitions, the user can choose to export and import at once by preparing the definitions in a SAVF and send it to a remote system or several remote systems, and automatically import them into it. Update type * UPD = add new records and replace existing records * REPLACE = clear the definition file and copy the new records.
iSecurity password or *PROMPT	This parameter can be omitted if SPCAUT (*SAVSYS) is defined.

2. Set your desired parameters and press **Enter** to confirm.

Import Definitions

Import the SAVF file containing the exported definitions and settings to another computer or LPAR.

1. Select **2. Import Definitions** from the **Maintenance Menu** screen. The **Import iSecurity/Part 4 Defns.** screen appears.



```

Import iSecurity/Part 4 Defns. (IMPS4DFN)

Type choices, press Enter.

Input type . . . . . *SAVF      *LIB, *SAVF

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
Bottom
    
```

Import iSecurity/Part 4 Defns. (IMPS4DFN)

Option	Description
Import Type	*SAVF = Import from a Save File *LIB = Import from a Library

2. Set your desired parameters and press **Enter** to confirm.

Delete Statistics Data

You can delete the statistical data used in the GUI version of the product. Before you delete any data, you should ensure that it is backed up and that, if necessary, you have a way to restore all deleted data.

1. Select **3. Delete Statistics Data** from the **Maintenance Menu**. The **Delete AP-Journal Statistic** screen appears.



```

Delete AP-Journal Statistic (DLTJRSTT)

Type choices, press Enter.

Application . . . . . █          Name
Ending date . . . . .          Date
Starting date . . . . . *START   Date, *START

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
Bottom
    
```

Option	Description
Application	The application for which you want to delete data.
Ending date	Enter the range of dates for which you want to delete data. The starting and ending dates are included in the range. Enter *START as a starting date to include all data from the beginning of the file.
Starting date	

- Set your desired parameters and press **Enter**. The statistical data defined by the parameters is deleted.

Journal Specific Maintenance

These options allow you to make changes that will only affect **AP-Journal**.

Customize *CSV Output Fields

You can customize your *CSV output by re-ordering fields, removing fields, and changing column headings.



1. Select **21. Set *CSV Output Fields Order** from the **Maintenance Menu**. The **SEU Edit** screen appears showing the SMZJDTA/JRSOURCE JRCSV member.

```

Columns . . . : 1 71          Edit          SMZJDTA/JRSOURCE
SEU==> |          JRCSV
***** Beginning of data *****
0001.00  A          R JRDATAR          PFILE(QTEMP/TMPQRY)
0001.01  *****
0001.02  *          FORMAT OF *CSV OUTPUT          *
0001.03  * To modify the structure of *CSV output, you can:          *
0001.04  * - Remove a field by marking it as a comment: Set A to A*          *
0001.05  * - Reorder the fields          *
0001.06  * - Change the column heading          *
0001.07  * This source will be used at run time          *
0001.08  * Changes apply to all *CSV output of AP-Journal          *
0001.09  *****
0004.00  A          JOSEQN#          COLHDG('Seq' 'Number')
0010.00  A          JOENTT          COLHDG('Type')
0013.00  A          JOTSTP          COLHDG('TimeStamp')
0016.00  A          JOJOB          COLHDG('Job' 'Name')
0019.00  A          JOUSER          COLHDG('Job' 'User')
0022.00  A          JONBR          COLHDG('Job' 'Number')
0025.00  A          JOPGM          COLHDG('Program')
0028.00  A          JOPGMLIB          COLHDG('Program' 'Library')
0031.00  A          JOOBJ          COLHDG('Object')
0034.00  A          JOOBJLIB          COLHDG('Library')
(C) COPYRIGHT IBM CORP. 1981, 2003.
    
```

2. Customize the output by following the instructions within the JRCSV member.

NOTE: The changes you make will be valid for all **AP-Journal *CSV** output.

Trace Definition Modifications

Add Journal

1. Select **71. Add Journal** from the **Maintenance Menu**. The **Create Journal - Confirmation** screen appears.



```

JRMINTM                               Maintenance Menu                               iSecurity/Journal
.....                               .....                               .....
Select : █                            Create Journal - Confirmation           :
:                                                                                :
Global : You are about to start journaling the product files.                 :
1. Exp : The journal receivers will be created in library                     :
2. Imp : SMZJJRND . If this library does not exist, it will                   :
3. Del : be automatically created.                                             :
:                                                                                :
Operato : If you wish to create the library in a specific ASP,                 :
11. Wor : you should press F3=Exit, create this library, and                  :
: run again this option.                                                       :
:                                                                                :
: Run this program again after future release upgrades.                       :
:                                                                                :
: Press Enter to start journaling, F3 to Exit.                                :
:                                                                                :
: F3=Exit                                                                        :
Selecti :                                                                           :
===> 71 : .....
-----
F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F13=Information Assistant  F16=AS/400 main menu
    
```

Create Journal - Confirmation

2. When you are ready to start journaling, press **Enter**.

Remove Journal

1. Select **72. Remove Journal** from the **Maintenance Menu**. The **End Journal - Confirmation** screen appears.



Display Journal Entries

Journal : SMZJ Library : SMZJDTA
 Largest sequence number on this screen : 00000000000000000013
 Type options, press Enter.
 5=Display entire entry

Opt	Sequence	Code	Type	Object	Library	Job	Time
█	1	J	PR			SCPF	17:49:05
-	2	F	OP	JRINFS	SMZJDTA	HLIVE	17:50:53
-	3	F	OP	JRINFS	SMZJDTA	ITALY	17:50:53
-	4	F	OP	JRINFS	SMZJDTA	ADEMO	17:50:53
-	5	F	CL	JRINFS	SMZJDTA	ADEMO	17:50:53
-	6	F	CL	JRINFS	SMZJDTA	HLIVE	17:50:53
-	7	F	CL	JRINFS	SMZJDTA	ITALY	17:50:53
-	8	F	OP	JRINFS	SMZJDTA	ADEMO	17:51:02
-	10	F	OP	JRINFS	SMZJDTA	ITALY	17:51:02
-	11	R	UB	JRINFS	SMZJDTA	ADEMO	17:51:02
-	12	R	UP	JRINFS	SMZJDTA	ADEMO	17:51:02
-	13	R	UB	JRINFS	SMZJDTA	ITALY	17:51:02

More...

F3=Exit F12=Cancel

Display Journal Entries

2. Select the required entry and press **5**. The **Display Journal Entry** screen appears.



```

Display Journal Entry
Object . . . . . : JRINFS      Library . . . . . : SMZJDTA
Member . . . . . : JRINFS
Incomplete data . . : No        Minimized entry data : No
Sequence . . . . . : 15
Code . . . . . : F - Database file member operation
Type . . . . . : CL - Member closed

Entry specific data
Column *...+....1...+....2...+....3...+....4...+....5
00001 'JRINFS SMZJDTA JRINFS '

Bottom

Press Enter to continue.

F3=Exit  F6=Display only entry specific data
F10=Display only entry details  F12=Cancel  F24=More keys

```

Display Journal Entry



Uninstall

- Choose **98. Uninstall Product** from the **Maintenance Menu**, and follow the directions on the screen.

```
Uninstall SECURITY4P

You are about to uninstall this product.
All program files, data and definitions will be deleted.
You are advised to print this screen for further reference.
Before proceeding, ensure that:
  o The product has been entirely de-activated
  o IPL was done
  o No user or batch job is working or intends to work with this product

To run uninstall procedure you should do the following:
  o Exit from the current session
  o Open a new session using QSECOFR or equivalent user profile
  o Enter: CALL SMZJ/JRRMVPD

Once the uninstall is completed, enter: DTLIB SMZJ
Backups of previous releases might exist under the name QGPL/P_SMZ*
To confirm proper uninstall, use DSPUSRPRF SECURITY4P TYPE(*OBJOWN)

F3=Exit
```

Uninstall

Base Support



Base Support

The **BASE Support** menu enables you to work with various settings that are common for all modules of iSecurity. This menu, with all its options, is in all iSecurity major modules. To access the **BASE Support** menu, select **89. BASE Support** from the **AP-Journal** main menu.

```
AUBASE                                     BASE Support                               iSecurity/Base
                                           System: S520

Other                                     General
 1. Email Address Book                    51. Work with Collected Data
 2. Email Definitions                     52. Check Locks
                                           58. *PRINT1-*PRINT9, *PDF Setup
                                           59. Global Installation Defaults

Operators and Authority Codes             Network Support
11. Work with Operators                   71. Work with network definitions
12. Work with AOD, P-R Operators           72. Network Authentication
                                           73. Check Authorization Status

14. Work with Authorization               74. Send PTF
15. Authorization Status                  75. Run CL Scripts
                                           76. Current Job CntAdm Log
                                           77. All Jobs CntAdm Log

Selection or command
===> █

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F13=Information Assistant  F16=AS/400 main menu
```

BASE Support menu

Other

Email Address Book

You can define the email address to be used for each user profile. You can also use this option to define an email group, with multiple addresses.

Base Support



- 1. Select **1. Email Address Book** from the **BASE Support** menu. The **Work with Email Address Book** screen appears.

```
Work with Email Address Book

Type options, press Enter.
  1=Modify  3=Copy  4=Remove

Position to . _____
Subset . . . _____

Opt  Name      Entries
█    ENGLAND   1  ENGLAND
-    FRANCE    1  FRANCE
-    GERMANY   1  GERMANY
-    YURIH     2  YURIH
-

F3=Exit  F6=Add new  F12=Cancel

Bottom
```

Work with Email Address Book



2. Press **F6** to add a new address entry (or type **1** next to a name to modify it). The **Add Email Name** screen appears.

Add Email Name

Type choices, press Enter.

Name █

Description _____

Email address(s) (blank, comma, new-line separated)

More...

F3=Exit F4=Prompt F12=Cancel

Add Email Name

3. Enter a **Name**, **Description**, and all the associated email addresses and press **Enter**.

Email Definitions

AP-Journal can send out automatic emails for events that you define.



1. Select **2. Email Definitions** from the **BASE Support** menu. The **E-mail Definitions** screen appears.

```

E-mail Definitions                                     7/07/15 12:07:50

Type options, press Enter.

E-mail Method . . . . . 3          1=Advanced, 2=Native, 3=Secured, 9=None
Advanced or Secured mode is recommended for simplicity and performance.

Advanced/Secured E-mail Support
Mail (SMTP) server name . . smtp.land1.com
                                     Mail server, *LOCALHOST
Use the Mail Server as defined for outgoing mail in MS Outlook.
Reply to mail address . . . DONOT@REPLY.COM
If Secured, E-mail user . . anyuser@anycompany.com
                                     Password . *****

Native E-mail
E-mail User ID and Address. _____ User Profile. _____
Users must be defined as E-mail users prior to using this screen.
The required parameters may be found by using the WRKDIRE command.
This option does not support attached files.

F3=Exit  F12=Cancel
    
```

Email Definitions

Field	Description
E-mail Method	1=Advanced 2=Native 3=Secured 9=None Advanced or Secured mode is recommended for simplicity and performance. Note: If using 2=Native , Users must be defined as E-mail users prior to using this screen. The required parameters may be found by using the WRKDIRE command. This option does not support attached files
Mail (SMTP) server name	The name of the STMP server or *LOCALHOST
Reply to mail address	The e-mail address to receive replies



Field	Description
If secured, email user and Password	If you chose 1=Advanced or 3=Secured for the E-mail method, enter the email user that will be used to send the emails and the password of that user
Email user ID and Address	If you chose 2=Native for the E-mail method, enter the user ID and address that will be used to send the emails
User Profile	If you chose 2=Native for the E-mail method, enter the user profile that will be used to send the emails

2. Enter the required fields and press **Enter**.

Operators and Authority Codes

Work with Operators

The Operators' authority management is now maintained from one place for the entire **iSecurity** on all its modules.

There are three default groups:

- ***AUD#SECAD** - All users with both ***AUDIT** and ***SECADM** special authorities. By default, this group has full access (Read and Write) to all **iSecurity** components.
- ***AUDIT** - All users with ***AUDIT** special authority. By default, this group has only Read authority to **Audit**.
- ***SECADM** - All users with ***SECADM** special authority- By default, this group has only Read authority to **Firewall**.

iSecurity related objects are secured automatically by product authorization lists (named **security1P**). This strengthens the internal security of the product. It is essential that you use Work with Operators to define all users who have ***SECADM**, ***AUDIT** or ***AUD#SECAD** privileges, but do not have all object authority. The **Work with Operators** screen has **U**sr (user management) and **A**dm for all activities related to starting, stopping subsystems, jobs, import/export and so on. **iSecurity** automatically adds all users listed in **Work with Operators** to the appropriate product authorization list.

Users may add more operators, delete them, and give them authorities and passwords according to their own judgment. Users can even make the new operators' definitions apply to all their systems; therefore, upon import, they will work on every system.

Password = ***BLANK** for the default entries. Use **DSPPGM GSIPWDR** to verify. The default for other user can be controlled as well.



- Type **1** next to the user to modify his authorities (or press **F6** to add a new user). The **Modify Operator** screen appears.

```

Modify Operator

Operator . . . . . QSECOFR
System . . . . . S520          *ALL, Name
Password . . . . . *SAME      Name, *SAME, *BLANK

Authorities by module:  1=*USE, 9=*FULL, 3=*QRY (FW and AU), 5=*DFN (CT)
Firewall (FW) . . . . . 9      Screen (SC) . . . . . 9
Password (PW) . . . . . 9      Command (CM) . . . . . 9
AntiVirus (AV) . . . . . 9     Audit (AU) . . . . . 9
Action (AC) . . . . . 9       Capture (CP) . . . . . 9
Journal (JR) . . . . . 9      View (VH) . . . . . 9
Visualizer (VS) . . . . . 9    Replication (RP) . . . . . 9
Native Object Compliance (NO) 9  Change Tracker (CT) . . . . . 9
Password Reset (PR) . . . . . 9 User Management (UM) . . . . . 9
Encryption/Tokenization (EN) 9 Product Administrator (ADM) . 9

The Report Generator is used by most modules and requires 1 or 3 in Audit.
Consider 1 or 3 for your auditors (with 3 they can create/modify queries).

F3=Exit  F12=Cancel
    
```

Modify Operator

Field	Description
Password	Name = Password *Same = Same as previous password when edited *Blank = No password
1 = *USE	Read authority only
9 = *FULL	Read and Write authority
3 = *QRY	Run Queries. For auditor use
5 = *DFN	For Change Tracker use

Most modules use the Report Generator, which requires access to the Audit module. For all users who will use the Report Generator, you should define their access to the Audit module as either **1** or **3**. Option **1** should be used for users who will only be running queries. Use option **3** for all users who will also be creating/modifying queries.



3. Set authorities and press Enter.

A message appears to inform that the user being added/modified was added to the Authority list that secures the product's objects; the user carries Authority *CHANGE and will be granted Object operational authority. The Authority list is created in the installation/release upgrade process. The SECURITY_P user profile is granted Authority *ALL whilst the *PUBLIC is granted Authority *EXCLUDE. All objects in the libraries of the product (except some restricted special cases) are secured via the Authority list.

Work with AOD, P-R Operators

To modify operators' authorities:

1. Select **12. Work with AOD, P-R Operators** from the **BASE Support** menu. The **Work with Operators** screen appears.

```

Work with Operators

Type options, press Enter.
1=Select 4=Delete

Authority level: 1=*USE 9=*FULL

Opt User      System  AOD PR  USP  Adm
█ *AUD#SECAD  S520   9  9  9   9
- ALEX        S520   9  9  5   9
- AV          S520   9           9
- JAVA2       S520   9  9  9   9
- LOWUSR      S520   9  9  9   9
- OD          S520   9  9  9   9
- OS          *ALL
- TZION       S520   9  9  9   9
- WEAKUSR     S520   9
- YORAM       S520   9           9
-

Bottom

AOD=Authority on Demand  PR=Password Reset  USP=User Provisioning
                        Adm=Administrator
F3=Exit  F6=Add new  F8=Print  F11=*SECADM/*AUDIT authority  F12=Cancel
    
```

Work with Operators - AOD



2. Type **1** next to the user to modify his authorities (or press **F6** to add a new user). The **Modify Operator** screen appears.

```

Modify Operator

Type choices, press Enter.

Operator . . . . . QSECOFR
System . . . . . S520          *ALL, Name
Password . . . . . *SAME      Name, *SAME, *BLANK

Authorities by subject:
Authority on Demand . . . . 9          1=*USE, 4=Limited *EMERGENCY
                                   5=*EMERGENCY, 8=Limited *FULL
                                   9=*FULL
Password Reset . . . . . 9          1=*USE, 9=*FULL
User Provisioning . . . . . 9          1=*USE, 5=*ENTRY, 9=*FULL
Product Administrator . . . . 9          1=*USE, 9=*FULL

Note: Emergency operator can enable or modify emergency rules. This allows
solving of critical problems without the intervention of the security
administrator.
The term Limited denotes that the user cannot change PIN codes.

F3=Exit   F12=Cancel
    
```

Modify Operator - AOD

Field	Description
Password	Name = Password Same = Same as previous password when edited Blank = No password
1 = *USE	Read authority only
9 = *FULL	Read and Write authority
3 = *QRY	Run Queries. For auditor use
5 = *DFN	For Change Tracker use

3. Set authorities and press **Enter**.

A message appears to inform that the user being added/modified was added to the Authority list that secures the product's objects; the user carries Authority *CHANGE and will be

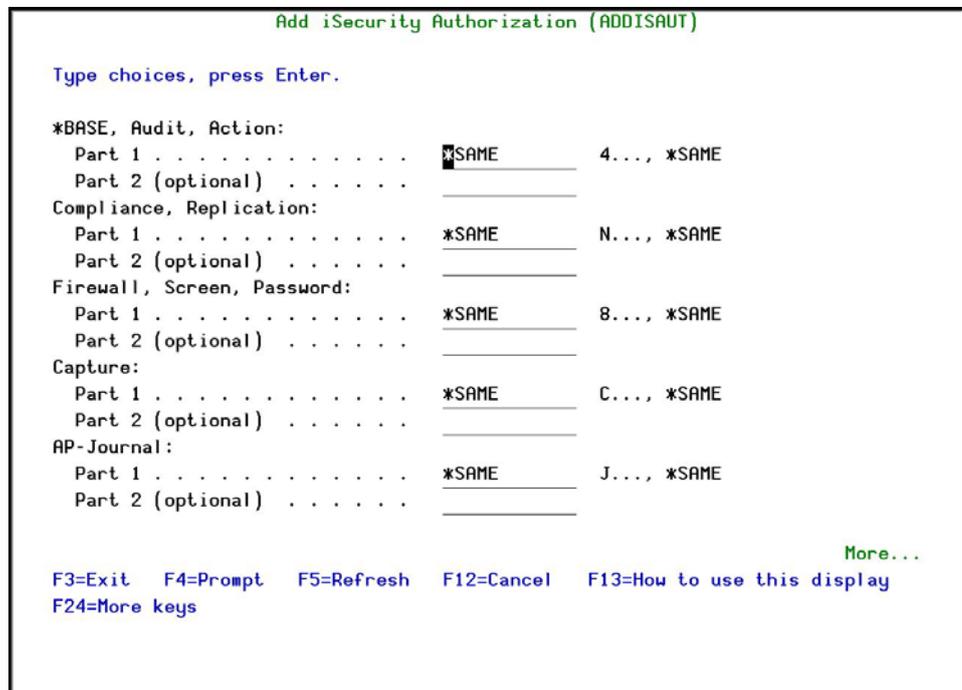


granted Object operational authority. The Authority list is created in the installation/release upgrade process. The SECURITY_P user profile is granted Authority *ALL whilst the *PUBLIC is granted Authority *EXCLUDE. All objects in the libraries of the product (except some restricted special cases) are secured via the Authority list.

Work with Authorization

You can insert license keys for multiple products on the computer using one screen.

1. Select **14. Work with Authorization** from the **BASE Support** menu. The **Add iSecurity Authorization** screen appears.



Add iSecurity Authorization (ADDISAUT)

2. Enter the required parameters and press **Enter**.

Authorization Status

You can display the current authorization status of all installed iSecurity products on the local system.



1. Select **15. Authorization Status** from the **BASE Support** menu. The **Status of iSecurity Authorization** screen appears.

```

44DE466 520 7459  Status of iSecurity Authorization  LPAR Id 1 S520

Opt: 1=Select

Opt Library  Release ID  Product
█ SMZ4 Code A 12.81 15-07-07 *BASE, Audit, Action, Syslog, CntAdm, CmplEval
  Valid-until 2015-07..... Auth 401507746642 .....
- SMZ4 Code B 12.81 15-07-07 Compliance (User,Native,IFS), Replication
  Valid-until 2015-08..... Auth N01508780534 .....
- SMZ5        03.1 12-03-25 View
  Valid-until *NOCODE..... Auth .....
- SMZ8        17.16 15-06-08 Firewall, Screen, Command, Password
  Valid-until 2015-07..... Auth 801507723719 .....
- SMZB        02.33 14-07-16 DB-Gate
  Valid-until 2015-07..... Auth B01507733541 .....
- SMZC        03.38 15-06-10 Capture, w/BI
  Valid-until 2015-08..... Auth C01508781686 .....
- SMZJ        08.47 15-06-17 AP-Journal (Comp, Appl, Bus, Alert, Read, Vis)
  Valid-until 2015-08..... Auth J01508703004 .....
- SMZO        04.43 15-06-22 Authority on Demand,Pwd-Reset (Web, Green)
  Valid-until 2015-08..... Auth 001508774917 1.....

More...

F3=Exit
    
```

Status of iSecurity Authorization

2. Select a specific line and type **1** in the **Opt** field to see the authority details of one specific product.

NOTE: Codes that will expire in less than 14 days appear in pink
 Permanent codes have deliberately been hidden in this screenshot.

General

Work with Collected Data

Administrators can view summaries of journal contents of various products by day, showing the number of entries for each day together with the amount of disk space occupied.



- 1. Select **51. Work with Collected Data** from the **BASE Support** menu. The **Work with Collected Data** screen appears.

```
Work with Collected Data S520
Type options, press Enter.
Module . . . . . █      1=Firewall
                        2=Audit
                        3=Action
                        4=Capture
                        5=Journal
                        6=Change Tracker
                        7=Authority On Demand
F3=Exit
```

Work with Collected Data



- Enter **5 (Journal)** and press **Enter**. The **Work with Collected Data - Journal** screen appears.

Work with Collected Data - Journal			RAZLEE3
Type options, press Enter. 5=Display		Total Size (MB):	3.8
Opt Application	Size (MB)	From Date	
█ DEMOA	.2		
- DEMOC	.4		
- DEMOE	.5		
- DEMOV	.2		
- DMAP1	1.0		
- JRDEM	.7		
- OPRCG	.2		
- PTTST	.2		
- SALES	.1		
- YORPF	.3		
			Bottom
F3=Exit	F12=Cancel		

Work with Collected Data - Journal

- Select **5** to see detailed information about a specific entry.

Check Locks

You need to run this option before you upgrade your system to check if any of the **AP-Journal** files are being used. If they are, you must ensure that they are not in use before you run the upgrade.



1. Select **52. Check Locks** from the **BASE Support** menu. The **Check Locks** screen appears.

```

GSLCKMNU                      Check Locks                      iSecurity
                                                                    System:  S520

Select one of the following:

Check Locks
  1. Data Base Files

  -. Display Files
     End this session. Enter CHKSECLCK OBJTYPE(*DSPF) from a new session.

  -. All File Types
     End this session. Enter CHKSECLCK OBJTYPE(*ALL ) from a new session.

Selection or command
===> █

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel
F13=Information Assistant  F16=AS/400 main menu
    
```

Check Locks

2. Follow the instructions on the screen.

*PRINT1 - *PRINT9 Setup

AP-Journal allows you to define up to nine specific printers to which you can send printed output. These may be local or remote printers. ***PRINT1-*PRINT9** are special values which you can enter in the **OUTPUT** parameter of any commands or options that support printed output.

Output to one of the nine remote printers is directed to a special output queue specified on the ***PRINT1-*PRINT9 User Parameters** screen, which, in turn, directs the output to a print queue on the remote system. You use the **CHGOUTQ** command to specify the IP address of the designated remote location and the name of the remote output queue.

By default, two remote printers are predefined. ***PRINT1** is set to print at a remote location (such as the home office). ***PRINT2** is set to print at a remote location in addition to the local printer. In addition:

Base Support



- ***PRINT3** creates an excel file.
- ***PRINT3-9** are user modifiable

To define remote printers:

1. Select **58. *PRINT1 - *PRINT9, PDF Setup** from the **BASE Support** menu.
The **Printer Files Setup** screen appears.

Printer Files Setup

Select one of the following:

1. *PRINT1-*PRINT9 Setup
2. *PDF Setup

Selection ==> █

F3=Exit

Printer Files Setup



- Enter **1** and press **Enter**. The ***PRINT - *PRINT9 Setup** screen appears.

```

*PRINT1-*PRINT9 Setup

Type options, press Enter.
Using OUTPUT(*PRINTn) where n=1-9, provides extra control over prints.
Use this screen to specify parameters for this feature. This functionality can
be modified. For details see the original source SMZ8/GRSOURCE GSSPCPRT.

Press F14 for setup instructions

```

*PRINT	OutQ Name	OutQ Library	Save	Hold	Description
1					
2					
3	CONTROL	SMZ4DTA		Y	Local+OUTQ that print on the remote
4					
5					
6					
7					
8					
9					

Bottom

F3=Exit F8=Print F12=Cancel F14=Setup instructions

***PRINT1-*PRINT9 Setup**

- Enter the name of the local output queue and library as shown in the above example. You can optionally enter a description.

Field	Description
OutQ name	The name of the local output queue
OutQ Library	The library of the local output queue
Save	Y = Yes N = No
Hold	Y = Yes N = No
Description	Enter a meaningful description (optional)

- Enter the following command on any command line to direct output to the remote printer. This assumes that the designated output queue has already been defined.



```
CHGOUTQ OUTQ('local outq/library') RMTSYS(*INTNETADR)
+ RMTprtQ('outq on remote') AUTOSTRWTR(1) CNNTYPE(*IP)
TRANSFORM(*NO)
+ INTNETADR('IP of remote')
```

Parameter	Description
OUTQ()	Name of the local output queue
RMTprtQ()	Name of the remote output queue
INTNETADR()	IP address of the remote system

If the desired output queue has not yet been defined, use the CRTOUTQ command to create it. The command parameters remain the same.

For example, ***PRINT4** in the above screen, the following command would send output to the output queue **'MYOUTQ'** on a remote system with the IP address '1.1.1.100' as follows:

```
CHGOUTQ OUTQ(CONTROL/SMZTMPA) RMTSYS(*INTNETADR)
+ RMTprtQ(MYOUTQ) AUTOSTRWTR(1) CNNTYPE(*IP) TRANS-
FORM(*NO)
+ INTNETADR(1.1.1.100)
```

PDF Setup

The operating system, from release 6.1, directly produces *PDF prints. In the absence of such support a standard *PDF is printed by other means.

To define PDF printers:

Base Support



1. Select **58. *PRINT1 - *PRINT9, PDF Setup** from the **BASE Support** menu. The **Printer Files Setup** screen appears.

Printer Files Setup

Select one of the following:

1. *PRINT1-*PRINT9 Setup
2. *PDF Setup

Selection ==> █

F3=Exit

Printer Files Setup



2. Enter **1** and press **Enter**. The ***PDF Setup** screen appears.

```

*PDF Setup

The operating system, from release 6.1, directly produces *PDF prints.
In the absence of such support a standard *PDF is printed by other means.

When the operating system *PDF capability exists, it is used, and the
Query Generator uses the printer file SMZ4/AUQRYPDF to print the *PDF.

This file is shipped with the following parameters:

  CHGPRTF FILE(SMZ4/AUQRYPDF) LPI(8) CPI(15) PAGRTT(*COR)

You may wish to change the attributes of this printer file to suit your
needs.

Such changes must be re-applied after each iSecurity/Base (SMZ4) upgrade.

Press Enter to continue...
```

***PDF Setup**

3. Follow the instructions on the screen.

NOTE: *You must re-perform this task after every upgrade of **AP-Journal**.*

Global Installation Defaults

You can set the parameters that iSecurity uses to control the Installation and upgrade processes.



1. Select **59. Global Installation Defaults** from the **BASE Support** menu. The **Global Installation Defaults** screen appears.

```

Global Installation Defaults

General purpose cmd library . . QGPL
ASP for data libraries . . . . 01
Expiration message control . .
Hait for STROBJCVN to end . . . Y
Expiration warning days default 14
SBS to start Autostart Job . . QSYSHRK *LIBL
Syslog UDP Source Port . . . .
Syslog UDP Source IP address .
Allow group access to IFS . . . N
Excel extension . . . . . .XLS .XLS, .XML, ...
Use AP-Journal . . . . . .Y

Consult Raz-Lee support before changing values.

F3=Exit F12=Cancel
    
```

Global Installation Defaults

Parameter	Description
General purpose cmd library	An alternative library to QGPL from which all STR* , RUN* , and *INIT commands will be run.



Parameter	Description
ASP for data libraries	<p>Products being installed for the first time will be installed to this ASP. This refers to the product library and data library (for example, SMZ4, SMZ4DTA)</p> <p>In some products such as AP-Journal, other libraries are created. For example, in the AP-Journal a library is created per application. When created you are prompted with the CRTLIB (Create Library) so that you can set the ASP number.</p> <p>Change the current ASP of the library. All future upgrades will use this ASP.</p> <p>All products will try to preserve the current ASP at upgrade time. Due to its sensitivity, you should check it.</p>
Expiration message control	<p>Y=Yes N=No</p>
Wait for STROBJCVN to end	<p>Y=Yes N=No</p> <p>When installing the product on an OS400 version which is not the one that it was created for, objects require conversion and this is normally done in a batch job sent to work parallel to the installation. If you want the conversion to run inline, (wait until it ends), this field should be set to Y.</p>
Expiration warning days default	<p>All products whose authorization expires in less than this number of days are reported as an exception. Enter a number between 01 and 99. The default is 14 days.</p>
SBS to start Autostart Job	<p>The Subsystem name and library to use for the Autostart Job.</p>
Syslog UDP Source Port	<p>The source port for Syslog UDP</p>
Syslog UDP Source IP Address	<p>The source IP address for Syslog UDP</p>
Allow group access to IFS	<p>Y=Yes N=No</p> <p>Allow access to IFS from group profiles.</p>
Excel extension	<p>The extension to be used when creating Excel files</p> <p>.XLS .XML</p>



Parameter	Description
Use AP-Journal	Y=Yes N=No If you want to use the self-journaling option that will allow you to trace all changes made to iSecurity products, enter Y .

2. Enter your required parameters and press **Enter**.

NOTE: You should not change any of the values in this screen without first consulting with Raz-Lee support staff at support@razlee.com.

Network Support

Work with Network Definitions

To get current information from existing report or query. Adjusting the system parameters only, to collect information from all the groups in the system to output files that can be sent via email.

Base Support



1. Select **71. Work with network definitions** from the **BASE Support** menu. The **Work with Network Systems** screen appears.

```
Work with Network Systems      System type: AS400

Type options, press Enter.
  1=Select   4=Remove   7=Export dfn.  9=Verify communication
                                     Position to . . . _____

Opt  System  Group
  █   RAZLEE2 *NONE
  _   RAZLEE3 *G2
  _   S520    *G1

F3=Exit   F6=Add New   F7=Export dfn cmd   F12=Cancel

Bottom
```

Work with Network Systems



2. Press **F6** to define a new network system to work with. The **Add Network System** screen appears.

```

Add Network System                               System type: AS400

Type choices, press Enter.

System . . . . . █_____ Name
Description . . . . . _____
Group where included . . . *NONE          *Name
Where is QAUDJRN analyzed . *SYSTEM      Name, *SYSTEM

Local Copy Details
Default extension Id. . . . _____ Alphanumeric value

Communication Details
Type . . . . . *IP          *SNA, *IP
IP or remote name . . . . . _____

Use Network Authentication (from previous menu) on this system and on the
remote one, after adding a system or modifying Communication Details.
cbis enables product to communicate between the systems.

F3=Exit          F12=Cancel

Modify data, or press Enter to confirm.
    
```

Add Network System

Parameter	Description
System	The name of the system
Description	A meaningful description of the system
Group where included	Enter the name of the group to which the system is assigned
Where is QAUDJRN analyzed	Give the name of the System where QAUDJRN is analyzed. Enter *SYSTEM if it is analyzed locally.
Default extension ID	Enter the extension ID for local copy details
Type	The type of communication this system uses *SNA *IP



Parameter	Description
IP or Remote Name	Enter the IP address or SNA Name, depending on the Type of communication you defined

3. Enter your required definitions and press **Enter to confirm**.

Network Authentication

To perform activity on remote systems, you must define the user SECURITY2P with the same password on all systems and LPARS with the same password.

Product options which require this are:

- referencing a log or a query with the parameter SYSTEM()
- replication user profiles, passwords, system values
- populating definitions, log collection, and so on

To authenticate the system:



1. Select **72. Network Authentication** from the **BASE Support** menu. The **Network Authentication** screen appears.

```

Network Authentication

Type choices, press Enter.

User for remote work . . . SECURITY2P      Name
Password . . . . . █
Confirm password . . . . .

In order to perform activity on remote systems, the user SECURITY2P must be
defined on all systems and LPARS with the same password.
Product options which require this are:
- referencing a log or a query with the parameter SYSTEM()
- replication user profiles, passwords, system values
- populating definitions, log collection, etc.

Values entered in this screen are NOT preserved in any iSecurity file.
They are only used to set the user profile password and to set server
authentication entries. Ensure that SysVal QRETSVRSEC is set to 1.

F3=Exit                                F12=Cancel
    
```

Network Authentication

2. Enter the SECURITY2P user password twice and press **Enter**.

NOTE: *The values entered in this screen are NOT preserved in any iSecurity file; they are only used to set the user profile password and to set server authentication entries. Ensure that the **Return Server Security Data** system value (**QRETSVRSEC**) is set to **1** (Retain Data).*

Check Authorization Status

You can set up the system so that the local *SYSOPR will get messages for all network wide authority problems.

Before you run this command, you must allow the system to run network commands and scripts. See [Run CL Scripts](#) on page 186 for more details.



1. Select **73. Check Network Authority Status** from the **BASE Support** menu. The **Check Razlee Authorization** screen appears.

```

Check Raz-Lee Authorization (CHKISA)

Type choices, press Enter.

Product or *ALL . . . . . *ALL      *ALL, AU, NS, GR, CA, JR...
System to run for . . . . . *CURRENT  Name, *CURRENT, *group, *ALL..
Inform *SYSOPR about problems . *NO      *YES, *NO
Days to warn before expiration  *DFT      Number, *DFT

                Additional Parameters

Sent from . . . . . *NO      Character value, *NO
By job number . . . . . *NO      Character value, *NO

                Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
    
```

Check Raz-Lee Authorization

Parameter	Description
Product or *ALL	<p>*ALL = report on all products</p> <p>AU = Audit</p> <p>NS = Native Object Security</p> <p>GR = Firewall</p> <p>CA = Capture</p> <p>JR = AP-Journal</p> <p>OD = Authority On Demand</p> <p>AV = Anti-Virus</p> <p>CT = Change Tracker</p> <p>DB = DB-Gate</p> <p>VW = View</p>



Parameter	Description
System to run for	The system to run the authorization check for: Name = The name of a specific system in the network *CURRENT = The current system *group = The name of a group of systems *ALL = All systems in the network
Inform *SYSOPR about problems	*YES = *NO =
Days to warn before expiration	Number = Any system whose expiry date is less than this number of days will be reported. The default number of days is 14. *DFT
Sent from	Value *NO
By job number	Value *NO

2. Enter your required options and press **Enter**.

Send PTF

This option allows you to run of a set of commands that will send objects as a PTF. This option is restricted to iSecurity products only. If you need to send PTFs for other products, please contact [RazLee Support](#).

Before you can use this option, ensure that you define the entire network, as described in [Work with Network Definitions](#) on page 177, and that you define user SECURITY2P on all nodes, using the same password, as described in [Network Authentication](#) on page 180.

To send PTFs



1. Select **74. Send PTF** from the **BASE Support** menu. The **iSecurity Send PTF** screen appears.

```

iSecurity Send PTF (RLSNDPTF)

Type choices, press Enter.

System to run for . . . . . █          Name, *CURRENT, *group, *ALL..
Objects . . . . . _____          Name, generic*, *ALL, *NONE
      + for more values _____
Library . . . . . _____          Name, ISECSETUP
Object types . . . . . *ALL          *ALL, *ALRTBL, *BNDDIR...
      + for more values _____
Save file . . . . . *LIB            Name, *LIB
  In library . . . . . QGPL          Name
Send SAVF to remote library . . *AUTO          Name, *AUTO (RL+job number)
On remote, backup LIB to SAVF . *NONE          Name, *NONE, *LIB
  In library . . . . . _____          Name
Restore the objects . . . . . *NONE          Name, generic*, *NONE, *ALL
  Into library . . . . . _____          Name, *LIB, *SAVF, ISECSETUP
Call the installation pgm . . . *NONE          Name, *NONE
  Library . . . . . _____          Name, *LIBL, *RSTLIB

                                                    More...

F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
    
```

iSecurity Send PTF

Parameter	Description
System to run for	The system to run the authorization check for: Name = The name of a specific system in the network *CURRENT = The current system *group = The name of a group of systems *ALL = All systems in the network



Parameter	Description
Objects	The objects you want to send. You can enter multiple values Name = A specific object generic* = A group of objects with the same prefix *ALL= All the objects *NONE= No objects need to be extracted, the SAVF has already been prepared
Library	The name of the library that contains the objects
Object types	The object types to be sent
Save file / Library	The name and library of the SAVF to contain the objects. If you enter *LIB for the file name, the name of the library containing the objects will be used. If you enter *AUTO as a name for the library, a library will be created with the name of RL<jobnumber>
Remote library for SAVF	The name of the remote library to receive the SAVF to contain the objects. If you enter *AUTO as a name for the library, a library will be created with the name of RL<jobnumber>
Restore objects	The objects to be restored Name = A specific object generic* = A group of objects with the same prefix *ALL= Restore all objects *NONE= Do not restore any objects
Restore to library	The name of the library to receive the restored objects Name = A specific library *LIB = the name of the original library containing the objects will be used. *SAVF= the same name as the SAVF
Program to run / Library	The name and library of a program to run after the objects have been restored.
Parameters	The parameters for the program that runs after the restore.

2. Enter your required options and press **Enter**.



Run CL Scripts

This option allows you to run of a set of commands either from a file or by entering specific commands as parameters. Each command must be preceded by a label:

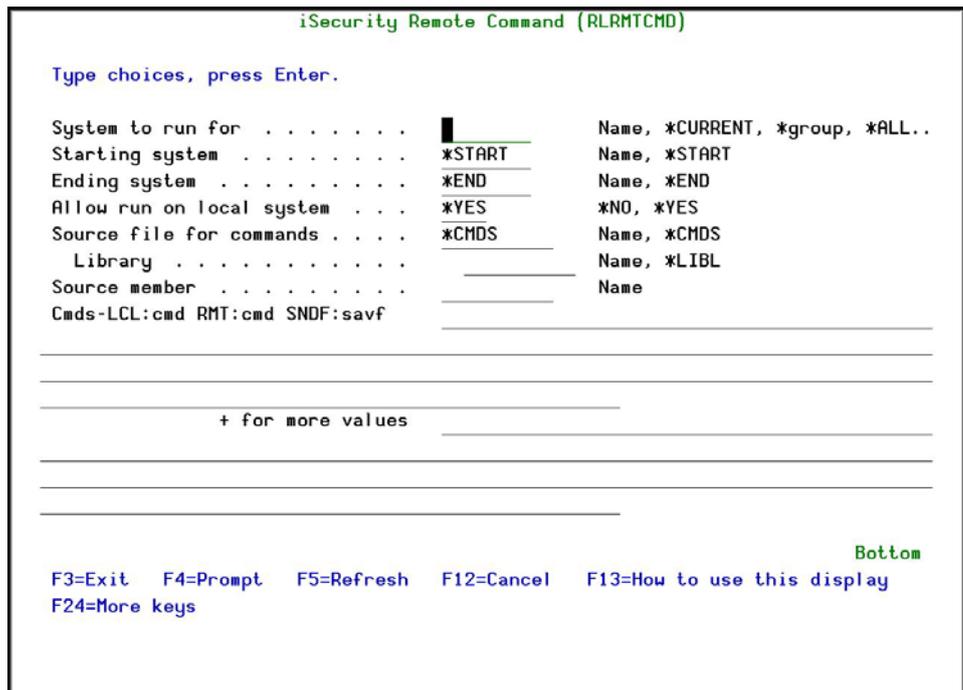
- LCL: Run the following command on the local system
- RMT: Run the following command on the remote system
- SNDF: Send the save file (format: library/file) to RLxxxxxxx/file (xxxxxxx is the local system name)

You can use this option to define the commands to run to check system authorities, as described in [Check Authorization Status](#) on page [181](#).

Before you can use this option, ensure that you define the entire network, as described in [Work with Network Definitions](#) on page [177](#), and that you define user SECURITY2P on all nodes, using the same password, as described in [Network Authentication](#) on page [180](#).



1. Select **75. Run CL Scripts** from the **BASE Support** menu. The **iSecurity Remote Command (RLRMTCMD)** screen appears.



iSecurity Remote Command

Parameter	Description
System to run for	The system to run the authorization check for: Name = The name of a specific system in the network *CURRENT = The current system *group = The name of a group of systems *ALL = All systems in the network
Starting system	Use to define a the start of a subset within *group or *ALL This is useful if you want to rerun a command that previously failed



Parameter	Description
Ending system	Use to define a the end of a subset within *group or *ALL This is useful if you want to rerun a command that previously failed
Allow run on local system	*YES = The remote command can run on the local system *NO = The remote command cannot run on the local system
Source file for commands	Name = The file where the commands to run are stored. *CMDS = Use the commands entered below
Library	Name = The library that contains the commands source file *LIBL =
Source member	Name = The member that contains the commands
Cmds -LCL:cmd RMT:cmd SNDF:savf	The commands that can be run (if the Source file for commands parameter is *CMDS): LCL:cmd = A command that will be run on the local computer RMT:cmd = A command that will be run on a remote computer SNDF:savf =

2. Enter your required options and press **Enter**.

Current Job CntAdm Log

Select **76. Current Job CntAdm Messages** from the **BASE Support** menu to display the current job log.

All Job CntAdm Log

Select **77. All Jobs CntAdm Messages** from the **BASE Support** menu to display the job log for all jobs.

Manage Resources

If it appears that **AP-Journal** is using too much resources after collecting statistics for two minutes, remember that the IBM i distributes CPU according to the job which requires CPU and has the highest Run Priority. AP-Journal runs in priority 60 which is LOWER than

AP-Journal backup system



regular batch jobs. It will accept CPU only when there is CPU available and no other job requires it. In such cases it may show high usage of CPU%

To improve the CPU usage do the following:

1. If AP-Journal is not alerting and its "today" data is not important – run journal at night.
2. Change run attribute to further improve performance.

Changing run attribute to further improve performance

Run the following command to ensure that the product releases the CPU at least once every second:

```
CHGCLS CLS(SMZJDTA/ZJOURNAL) TIMESLICE(1000)
```

Preferably use dedicated memory pools (performance know how is required) by doing one of the following:

- *CHGSBSD SBSD(SMZJDTA/ZJOURNAL) POOLS((1 *SHRPOOLnn))*
- *CHGSBSD SBSD(SMZJDTA/ZJOURNAL) POOLS((1 *BASE))*

AP-Journal backup system

To define how many days will the data remain in library SMZJ"Application" (SMZJCMBOL), select **1. Regulation Compliance** from the main menu and then select **9. Retrieve File Updates** from the Regulation Compliance menu.



```

Retrieve Data-Base Journal (RTVDBJRN)

Type choices, press Enter.

File . . . . . █ Name
Library . . . . . *LIBL Name, *LIBL
File to receive output . . . . . Name, *TEMP, *FILE
Library . . . . . QTEMP Name, *LIBL
Output member options:
Member to receive output . . . *FIRST Name, *FIRST
Replace or add records . . . *REPLACE *REPLACE, *ADD
Output (on interactive job) . . * *, *PRINT, *NO
Journal . . . . . *CURRENT Name, generic*, *CURRENT, *ALL
Library . . . . . Name, *LIBL, *CURLIB
Range of journal receivers:
Starting journal receiver . . *CURRENT Name, *CURRENT, *CURCHAIN
Library . . . . . Name, *LIBL, *CURLIB
Ending journal receiver . . . Name, *CURRENT
Library . . . . . Name, *LIBL, *CURLIB

More...
F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys
    
```

Retrieve Data-Base Journal (RTVDBJRN)

and what is the logic for the container change.

The daily maintenance program that runs during the night, will move the data files according to those parameters from the SMZJ"Application" (SMZJCMBOL) library, to the history libraries according to date parameter SMZJ'Date'=SMZJYYMMDD.

These files can be saved and removed.

When requesting a display of the history from the containers, the program will look in the SMZJ"Application" (SMZJCMBOL) library first. If the program does not find it, it will search the history libraries by date parameter SMZJ'Date'=SMZJYYMMDD. If the information is still not found, the program will act according to a missing data parameter MISDTA, while the possible values being *CANCEL/*IGNORE/*LOAD /*INQ ...

If these files were saved and moved, the historical data can be reloaded and inquired.

If a file in SMZJ"Application" (SMZJCMBOL) was manually deleted, this procedure will not be available.