

Screen™

The Terminal Screen Protection
Component of iSecurity



User Manual

Version 14





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Record your Product Authorization Code Here:

Computer Model:	
Serial Number:	
Authorization Code:	



About This Manual

Who Should Read This Book

This user guide is intended for system administrators and security administrators responsible for the implementation and management of security on System i systems. However, any user with a basic knowledge of System i operations will be able to make full use of this product after reading this book.

Product Documentation Overview

Raz-Lee takes customer satisfaction seriously. Our products are designed for ease of use by personnel at all skill levels, especially those with minimal System i experience. 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 **Screen**. It is available in user-friendly PDF format and may be displayed or printed using Adobe Acrobat Reader version 4.0 or higher. Acrobat Reader is included on the product CD-ROM.

Screen includes a single user guide that covers the following topics:

- Introduction
- Installation
- Start-up and Initial Configuration
- Using **Screen**

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

On-Line Help

System i context sensitive help is available at any time by pressing the **F1** key. A help window appears containing explanatory text that relates to the function or option currently in use. On-Line help will shortly be available in Windows help format for viewing on a PC with terminal emulation.



Typography Conventions

- Menu options, field names, and function key names are written in **Sans-Serif Bold**.
- References to chapters or sections are written in *Italic*.
- OS/400 commands and system messages are written in ***Bold Italic***.
- Key combinations are separated by a dash, for example: **Shift-Tab**.
- Emphasis is written in **Times New Roman bold**.

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Chapter 1: Introduction to Screen

Screen is a terminal screen security product that protects unattended terminals, including PCs running terminal emulation software, from unauthorized use. Unattended terminals provide a tempting opportunity, even for honest employees, to “play” with programs and data that they are otherwise prevented from using. Such activity is often considered to be harmless, but in fact, can result in catastrophic damage to critical databases or theft of confidential information.

Unauthorized terminal abuse is very difficult to detect or prevent because the actual transaction source cannot be readily identified.

Screen protects unattended terminals by automatically locking them after a specified period of inactivity. Locked terminal screens are released when the user, his supervisor or the security officer enters a valid password. If a locked terminal is not released within a specified period that terminal session may be automatically ended. Time-out periods may be defined according to variable criteria such as date, time of day or user profile.

Screen provides centralized control over the locking of unattended terminal screens, time-out definition for individual terminals and release passwords. Protection may be individually enabled or disabled for specific users and terminals. Time-out periods can also be individually specified for specific users and terminals.

Screen enables a user to quickly lock his own screen in order to protect confidential data displays from prying eyes.

NOTE: This product works for Interactive jobs (INT)



Key Features

- Easy-to-use for non-technical system administrators
- Centralized screen protection control
- Adjustable time-outs based on user profile, terminal and time of day
- Optional forced *SIGNOFF* if a terminal is not released within the designated time
- Definable exceptions to forced *SIGNOFF* based on active program
- Protects pass-through sessions – optional use of host or target system password
- Centralized control over screen release passwords
- Auto-Dim (screen saver) option for PCs running terminal emulation
- “Self-Lock” manual locking for quick screen blanking
- “One Touch” option locks terminal by pressing programmable hot key
- IBM Operations Navigator Plugin

Native OS/400 Text Based User Interface

Screen is designed from the ground up to be a user-friendly product for auditors, managers, security personnel and system administrators. 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 screen options.

- To enter data in a field, type the desired text and then press **Enter** or **Field Exit**.
- To move from one field to another without changing the contents, press the **Tab** or **Shift-Tab** keys.
- 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**.

Function Keys

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

What's New in Screen 12.3

There are new features in the Activation menu (**Opt 41. Activation**). These features are **Auto-Enable After Running a Command**, options **21** and **22**.

The following new features are common to **Firewall**, **Screen**, and **Password**.

- The **Uninstallation** process has been modified, and can now be executed from outside the product only. **Opt 82 > 91** provides a special notification screen with all the needed instructions. In addition, the following objects are now deleted during the **Uninstallation** process:
 - Commands from *QGPL*
 - The *SMZ8SYS* special library



- The *SMZ8JRND* special journaling library
- There is a new feature in **82. Maintenance Menu**. These are options **71**, **72**, and **79**, all related to Journal files.
- The **59. PRINT1-PRINT9 Setup** feature in the **Maintenance Menu** has been modified.

Chapter 2: Starting Screen

A system administrator with **SECADM* special authority must logon in order to globally control terminal screens or to configure the product. Any user may start **Screen** in order to enable or disable protection for his own terminal screen or to change his screen release password.

To start **Screen**, type *STRSEC* in the command line. The main menu appears as below.

```

GSTMENU                               Screen                               System:  S720
Select one of the following:

Work With This Screen                  Control
  1. Protect This Screen                41. Activation
  2. Do Not Protect This Screen
  3. Self Lock
  4. Set "One Touch" Self Lock

Definitions                            Related products
  21. Time-Out Definitions              71. Firewall
                                          72. Password

Reports/Queries                         Maintenance
  31. Display Log                       81. System Configuration
                                          82. Maintenance Menu

Selection or command:
===> █

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

```

Screen Main Menu

Changing the Password

An additional, product specific password may be required to access certain features. The default password is *QSECOFR*. It is highly recommended that you change this password immediately after using the product for the first time.

To change the product specific password:

1. Select **81. System Configuration** from the main menu.
2. Select **92. Modify Password** from **Global Parameters** menu.
3. Type the new password and confirmation in the spaces provided.



Modifying Operators' Authorities

The Operators' authorities management is now maintained in 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**.

By default, all three groups use the same password (*QSECOFR*).

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

NOTE: When upgrading for the first time to **iSecurity**, certain user(s) might not have access according to the new authority method. Therefore, the first step you need to take after upgrading is to edit those authorities.

To modify operators' authorities, follow this procedure.

1. Select **82. Maintenance Menu** from the main menu. The **Maintenance Menu** appears.
2. Select **11. Work with Operators** from the **Maintenance 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  FW  Scr Pwd AV  Aud Act Cpt Jrn Vw  Vsl
█ *AUD#SECAD  *ALL   9  9  9  9  9  9  9  9  9  9  9
- *AUD#SECAD  S720   9  9  9  9  9  9  9  9  9  9  9
- *AUDIT      *ALL   9  9  9  9  9  9  9  9  9  9  9
- *AUDIT      S720   9  9  9  9  9  9  9  9  9  9  9
- *SECADM     *ALL   9  9  9  9  9  9  9  9  9  9  9
- *SECADM     S720   9  9  9  9  9  9  9  9  9  9  9
- AU         *ALL   9  9  9  9  9  9  9  9  9  9  9
- DM#SCT     *ALL   9  9  9  9  9  9  9  9  9  9  9
- ELI        *ALL   9  9  9  9  9  9  9  9  9  9  9
- ELIH       *ALL   9  9  9  9  9  9  9  9  9  9  9

More...

FW =Firewall  Pwd=Password  Aud=Audit      Cpt=Capture    Vw =View
Scn=Screen    AV =AntiVirus  Act=Action     Jrn=Journal    Vsl=Visualizer

F3=Exit  F6=Add new  F8=Print  F11=*SECADM/*AUDIT authority  F12=Cancel
    
```

Work with Operators

- 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 . . . . . *AUD#SECAD
System . . . . . *ALL           *ALL, Name
Password . . . . . *SAME           Name, *SAME, *BLANK

Authorities by module:
Firewall . . . . . 9           1=*USE, 9=*FULL
Screen . . . . . 9           1=*USE, 9=*FULL
Password . . . . . 9           1=*USE, 9=*FULL
AntiVirus . . . . . 9          1=*USE, 9=*FULL
Audit . . . . . 9            1=*USE, 9=*FULL
Action . . . . . 9            1=*USE, 9=*FULL
Capture . . . . . 9           1=*USE, 9=*FULL
Journal . . . . . 9           1=*USE, 9=*FULL
View . . . . . 9             1=*USE, 9=*FULL
Visualizer . . . . . 9        1=*USE, 9=*FULL

F3=Exit  F12=Cancel
    
```

Modify Operator

Option	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

- Set authorities and press **Enter**.

Activation Procedures

The Start Monitor loads the global parameters used to periodically scan the terminals and starts the monitoring process. **Screen** uses a subsystem called **ZGUARD** to continuously monitor terminal screens. When **ZGUARD** is active, all terminal screens are protected.

When using **Screen** for the first time, perform the following steps in to activate **Screen** monitoring.

- Select **41. Activation** from the main screen. The **Activation** screen appears.

```

GSTACT                               Activation                               Screen
                                     System:   S720

Select one of the following:

Activation                               Auto Enable After Running a Command
 1. Activate Screen Now                   21. Add
 2. De-activate Screen Now                22. Remove

 5. Work With Active Monitor Jobs

Global Activation
11. Enable Screen - All Screens
12. Disable Screen - All Screens
13. Activate at IPL
14. Do Not Activate at IPL

Selection or command:
===> █

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

Activation

- Select **11. Enable Screen – All Screens** from the **Activation** menu and specify the subsystem in which interactive jobs run. This is normally **QINTER** or **QBASE**. If more than one such subsystem is used, repeat this step for each interactive subsystem.



3. All terminal screens will be protected automatically immediately upon sign on.
4. Select **13. Activate at IPL** from the **Global Activation** menu. This step automatically activates **Screen** after each IPL.
5. Define timetable parameters as described in this guide.
6. Select option **21** to add rules for auto-enable screen protection after running a command
7. Select **1. Activate Screen Now** from the **Activation** menu. This final step ensures that every terminal screen that was already signed when Step 1 was performed is now protected.

De-activate Monitor

This option stops the *ZGUARD* Subsystem and ends the terminal monitoring by **Screen**.

NOTE: It is recommended to restart the system once a week (Enable and Disable Screen). This action causes a temporary pause in the activity of the control system. By performing this action, the system is reactivated using the current settings of the System Global Parameters. This is essential if there have been changes made to the parameter file that determine the mode of operation of the control system.

To stop **Screen** monitoring, perform the following steps.

1. Select **41. Activation** from the main screen. The **Activation** screen appears.
2. Select **11. Disable Screen – All Screens** from the **Activation** menu and specify the subsystem in which interactive jobs run. If more than one such subsystem is used, repeat this step for each interactive subsystem.
3. All terminal screens protection will be disabled.
4. Select **14. Do Not Activate at IPL** from the **Global Activation** menu.
5. Select option **22** to remove rules for auto-enable screen protection after running a command
6. Select **2. De-activate Screen Now** from the **Activation** menu.

Manual Activation

You may configure the monitor subsystem to start automatically on IPL, or you may manually start and stop it.

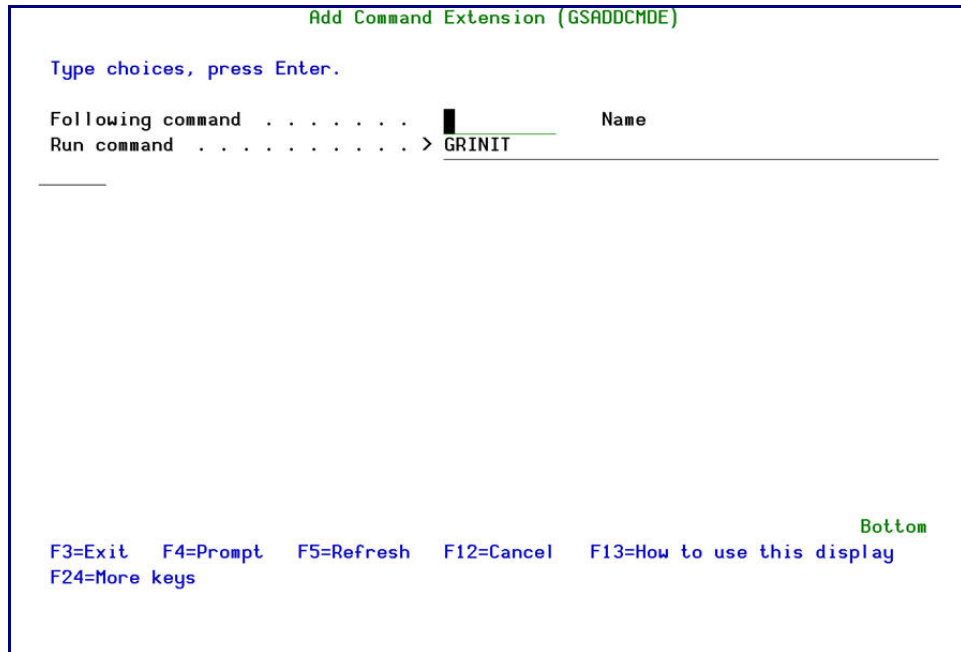
- To automatically start the monitor subsystem, select **13. Activate at IPL**.
- To prevent the monitor subsystem from automatically starting, select **14. Do Not Activate at IPL**.
- To manually start the monitor subsystem, select **1. Activate Screen Now**.
- To manually stop the monitor subsystem, select **2. De-activate Screen Now**.

Auto Enable after Running a Command



You may also configure the monitor subsystem to start automatically after a specific command was executed

- To start the monitor subsystem, select option **21. Add**. Type a name and the command that will execute the screen protection.



Add Command Extension

- To stop the monitor subsystem from automatically starting, select **22. Remove**. Type the command name to remove from the automatic screen protection.
- To manually start the monitor subsystem, select **1. Activate Screen Now**.
- To manually stop the monitor subsystem, select **2. De-activate Screen Now**.

Enabling Protection for Terminal Screens

Each user may enable or disable protection for his own terminal Screen. This is normally done for test purposes only.

- To manually enable protection for one's own terminal screen, select **1. Protect this Screen** from the main menu.
- To disable protection for one's own terminal screen, select **2. Do Not Protect this Screen**.

The system administrator can globally enable and disable protection for all terminal screens. To globally enable all terminal screens, perform the following procedures:

1. Select **41. Activation** from the main menu.
2. Select **11. Enable Screen – All Screens** from the **Global Activation** menu.



3. Select **1. Activate Screen Now** from the **Activation** menu. This final step ensures that every terminal screen that was already signed when Step 1 was performed is now protected.

Verify Monitor Subsystem

This function allows you to verify whether the *ZGUARD* is currently active.

1. Select **41. Activation** from the main menu.
2. Select **5. Work with Active Monitor Jobs**. The **Work with Subsystem Jobs Screen** appears.
3. Enter your desired options.

```

Work with Subsystem Jobs                               S720
                                                    22/11/07 00:07:08

Subsystem . . . . . : ZGUARD

Type options, press Enter.
2=Change 3=Hold 4=End 5=Work with 6=Release 7=Display message
8=Work with spooled files 13=Disconnect

Opt Job      User      Type  -----Status----- Function
█  GR#MONITOR SECURITY1P AUTO   ACTIVE                 DLY-179

                                                    Bottom

Parameters or command
====>
F3=Exit   F4=Prompt  F5=Refresh  F9=Retrieve  F11=Display schedule data
F12=Cancel F17=Top    F18=Bottom
  
```

Work with Subsystem Jobs

Options	Description
2=Change	Runs the Change Job (<i>CHGJOB</i>) command. If no value is specified on the Parameters input field, default parameters are shown when you press the F4 (prompt) key.
3=Hold	Hold the job. The job's spooled files are not held unless the default for the Hold spooled files (<i>SPLFILE</i>) parameter is overridden using the Parameter's input field
4=End	Runs the End Job (<i>ENDJOB</i>) command.
5=Work with	Runs the Work with Job (<i>WRKJOB</i>) command, which displays the Work with Job Menu.



Options	Description
6=Release	Runs the Release Job (<i>RLSJOB</i>) command, which releases the job if it is in the held condition. The Release Reader (<i>RLSRDR</i>) or Release Writer (<i>RLSWTR</i>) command (with <i>OPTION(*CURRENT)</i>) is run if this option is selected for a spooling reader or spooling writer job. 'Rls' is placed in the status field if the command runs successfully.
7=Display message	Displays the message for which the job is waiting.
8=Work with spooled files	Runs the Work with Job (<i>WRKJOB</i>) command, which displays the job's spooled output files.
13=Disconnect	Use this option to run the Disconnect Job (<i>DSCJOB</i>) command. All jobs at the device will be disconnected.

- If the **ZGUARD** subsystem is active, the **Work with Subsystem Jobs** screen appears and displays the **ZGUARD** subsystem and its status.
- If the **ZGUARD** subsystem is not active, the message “**Screen monitor closed**” appears at the bottom of the **Help** menu.

This option is for verification purposes only. You should never attempt to modify the subsystem or its associated jobs using this screen.

Chapter 3: Additional Activation Features

Self Lock

Very often a terminal user will need to leave the workstation for a short while, and it is inefficient and time-consuming to ask the user to sign off and on for each occasion.

The **Self Lock** feature of **Screen** provides an easy yet comprehensive method for locking the user terminal. When locking the terminal, the user can specify the maximum duration he expects to be away from his machine. Should he be absent longer, the terminal's job automatically ends.

```
Screen - LOCK this screen (GRLOCK)

Type choices, press Enter.

Maximum minutes to wait . . . . *NOMAX      Number, *NOMAX

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

Bottom
```

Screen - LOCK this screen (GRLOCK)

To use the **Self Lock** feature, follow these procedures.

1. Select option **3. Self Lock** from the main screen (alternately, type *GRLOCK* in the command line). The **GRLOCK** screen appears.
2. Enter the timeout period in minutes or keep the default setting of **NOMAX*.
3. Press **Enter** to confirm your choice.

Your terminal is now locked. To end the lock state, and restore the original display, enter the password you used to log onto the system.

“One Touch” Self Lock

A user can lock his terminal by pressing a single key regardless of the application that is running at that time. This function is enabled via the use of the **Record/Play** keyboard functions, or hot-key macros. Using these macros, it is possible to record a sequence of keystrokes and play them back whenever the play function is used. As the exact method to record and play changes between the various terminal types, you should look in your terminal manual to find the exact way of implementation.

The key sequence to be recorded is *[SYS.REQ] 5 999 SMZTMPA/GRSLFL [ENTER]*

The **999** states that the maximum delay is unlimited, the 999 can be replaced with any number (3 digits) to represent the maximum wait time (in minutes) for a release attempt, before job terminates.

```

Columns . . . . . : 1 80                                Browse
SEU==> █
FMT **  ...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
***** Beginning of data *****
0001.00          Lock Your Screen with "One Touch"                0411
0002.00                                                    9504
0003.00 Record the following string as a Keyboard Macro (Use the manual of      0411
0004.00 your emulation software to find out the exact recording procedure):      0411
0004.01                                                    0411
0005.00          [SYS.REQ.] 5 999 SMZTMPA/GRSLFL [Enter]          9503
0006.00                                                    9503
0007.00 You may replace the 999 in the above text with any number. This            0411
0007.01 number represents the maximum number of minutes to wait for your          0411
0008.00 return to work. When this wait time has passed, your screen will           0411
0008.01 be ended (normally signed off). 999 means *NOMAX                    0411
0009.00                                                    9503
0010.00 Locking yourself:                                           9503
0013.00 Play the recorded Keyboard Macro                                0411
0014.00 Your screen will be locked immediately.                          9503
0014.01                                                    0103
0015.00 Note: Screen+++ must be active to enable this feature.           0411
***** End of data *****

F3=Exit  F5=Refresh  F9=Retrieve  F10=Cursor  F11=Toggle  F12=Cancel
F16=Repeat find  F24=More keys

(C) COPYRIGHT IBM CORP. 1981, 2002.
    
```

Lock Your Screen with “One Touch”

To use the “One Touch” Self Lock feature, follow these procedures.

1. Select **4. Set “One Touch” Self Lock** from the main menu.
2. Follow the instructions displayed on the screen to record the macro.

Chapter 4: Controlling Screen Activation

Enabling & Disabling Protection Globally

The system administrator can globally enable and disable protection for all terminal screens. To globally enable all terminal screens, perform the following steps in order:

1. Select **41. Activation** from the main menu. The **Activation** screen appears.
2. Select **11. Enable Screen – All Screens** from the **Global Activation** menu. The **Wide/Guard Initiation-Default (GRINITDFT)** screen appears.

```

Product Activation Default (GRINITDFT)

Type choices, press Enter.

Interactive subsystem . . . . . QINTER      Name
Library . . . . .           *LIBL      Name, *LIBL
Product to activate . . . . . > *ALL      *SECURITY, *WIDESCOP...

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

```

Wide/Guard Initiation-Default (GRINITDFT)

3. Select **1. Activate Screen Now** from the **Activation** menu. This second step ensures that every terminal screen that was already signed when Step 1 was performed is now protected.

To globally disable protection for all terminal screens:

1. Select **12. Disable Screen – All Screens** from the **Activation** menu. The **Wide/Guard Initiation-Default (GRINITDFT)** screen appears.
2. Select **1. De-activate Screen Now** from the **Activation** menu.



Protect This Screen

Selecting this option will initialize the **GRINIT** program for this terminal only. Monitoring will be active for this terminal.

1. To use the **Protect this Screen** option, select **1. Protect this Screen** from the main menu. The **iSecurity Initiation** screen appears.
2. Choose the correct parameters.

```
iSecurity Initiation (GRINIT)

Type choices, press Enter.

Guard this job when needed . . . > *YES          *YES, *NO, *SAME
Guard all jobs in group. . . . *IFACTIVE      *YES, *IFACTIVE, *NO

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

Bottom
```

iSecurity Initiation (GRINIT)

3. To disable the GRINIT command from the terminal and stop monitoring, Select **2. Do Not Protect This Screen** and select parameters.

Chapter 5: Definitions

This section deals with defining your terminal security. The topics that are addressed are:

- Time Table
- Exceptions
- *ENDJOB* exceptions
- Password

Screen protection is based on global timeout periods, which may then be customized for individual terminal screens, users and specific jobs running in a terminal session. Protection may be disabled for individual screens and users.

To work with terminal screen protection parameters, select **21. Time-Out Definitions** from the main menu. The **Definitions** menu appears.

```
GSTRMDF                               Definitions                               System:  S720
Select one of the following:

Timeout Periods                         Screen Release Passwords
  1. Define Timeout Periods              31. Individual User
                                          32. Multiple Users

Timeout Exceptions
  11. For Users
  12. For Screens

Forced Signoff Exceptions
  21. For Active Programs

Selection or command
===> █

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

Definitions

Working with Timeout Periods

Screen uses a calendar to assign global timeout periods for specific dates. These global timeout periods are for screen locking and password entry.

Since the demands on the security system change according to the type of day (work day, weekend, half day, vacation day, etc) and according to the time of day (during working hours, after work hours, night hours), you may define different timeout periods based on these parameters.

The system contains an annual diary in which the days can be characterized. Each type of day is defined by one character chosen by the user. This character needs to be entered in the appropriate position in the internal calendar (press **F14** to update this) and in the timetable, by type of day and hour. The hour that is entered is the beginning of the period.

Appropriate characteristics can be defined for each type of day and each time.

The way the security system operates is defined by two main parameters:

- The maximum time a workstation can remain inactive before the security system starts protecting it.
- The maximum time the security system will wait for a password to be entered. After this time has elapsed the security system will terminate the activity of this workstation. A special value 999 will render this option inoperative.

To define global timeout periods, follow these procedures.

1. Select **1. Define Timeout Periods** from the **Definitions** menu. The **Timeout Definitions** screen appears.

Screen Timeout Period Definitions

Use the following codes in the Day Type field below:

Day type	Description	Day type	Description
1	Monday	' '	Default timeout
2	Tuesday		-----
3	Wednesday	F	First of the month
4	Thursday	L	Last of the month
5	Friday		
6	Saturday		
7	Sunday		

Enter timeout periods (in minutes) for each day type that you define.

				Password						Password	
Day	Lock	Request	Request	Day	Lock	Request	Request	Day	Lock	Request	Request
Type	Hour	Timeout	Timeout	Type	Hour	Timeout	Timeout	Type	Hour	Timeout	Timeout
*DEFAULT		15	45			---	---			---	---
	17	15	15	-	-	---	---	-	-	---	---
6	---	20	20	-	-	---	---	-	-	---	---
-	---	---	---	-	-	---	---	-	-	---	---
-	---	---	---	-	-	---	---	-	-	---	---

F3=Exit F8=Print F11=Weekly/Yearly schedule

More...

Screen Timeout Period Definitions



2. Define day types in the lower section of the screen as follows:

Option	Description
Day type	1 character code representing the day type (weekday, weekend, holiday, etc)
Hour – Hour	24 hour clock at which these timeout periods take effect
Lock Timeout	Idle time before screen is locked
Password Timeout	Time allowed to enter password before forced signoff

For example, the above screen capture shows that every weekday at 16:00, the screen is locked (*GRLOCK*) after 45 minutes of non-activity. After ten minutes of being locked, the screen undergoes signoff. However, at 17:00, screens undergo signoff after twenty minutes of non-activity.

3. Press **F14** to move the cursor to the calendar in the upper section of the screen.
4. Enter the year in the appropriate field.
5. Enter a day type code for each date in the year. The global timeout periods corresponding to the indicated day type will apply for each date. If no day type is entered for a given date, the **DEFAULT* day type is automatically applied.

Exceptions

You can customize timeout periods, or disable protection entirely, for individual users, profile groups and individual terminal screens by creating **exceptions** to the global timeout periods.

The exception tables allow one to change the times that have been defined or to change the way the system should operate in special cases where the general parameters are not suitable.

Exception by User/Profile Groups

At this level of exceptions, one can enter a User name or Group profile and by using the multiplication parameter the reaction time of the system can be increased or decreased for specific Users or Groups. For instance, it is natural that the *QSECOFR* should be protected more than other users, so a multiplication factor of 0.5 could be entered so that the time lapse will be half the default time before that terminal is locked.

Exception by Terminal Screens

At this level we can define exceptions by the name of the Terminal (Workstation). For example, terminals located in areas with many workers may need more protection than others. At the extreme, the room where the computer is situated may be protected against break-in. For terminals located there, we can enter a multiplication factor of 3.0. This means that it will take three times longer than the default time until the security system takes control of the workstation.

To define global timeout period exceptions:

1. Select **11. For Users** or **12. For Screens** from the **Definitions** menu. An **Exception** screen appears. The screens are similar for both user and screen exception types.



2. Enter exception parameters as follows:

Parameter	Description
User Profile	User profile or profile group (User exceptions only)
Screen	OS/400 terminal name (Screen exceptions only)
Lock Time Factor	Screen locking timeout multiplier (See note below)
Pwd Time Factor	Screen release timeout multiplier (See note below)
Protect Active	Protection enabled for this screen or user Y = Enable Blank = Disable
Auto Dim	Enable screen saver Y = Enable – Screen exceptions only

NOTE: Timeout factors are expressed as **multipliers** to the global timeout setting value. For example, if the global timeout setting value is 15 minutes and the exception value is 4, the exception timeout will occur after 60 (15 x 4) minutes. Likewise, if the global timeout setting is 15 minutes and the exception value is .5, the exception timeout will occur after 7½ (15 x .5) minutes.

Forced Signoff Exceptions

If a locked terminal is not released within a specified period, that terminal session will be automatically terminated. Exceptions may be created to prevent jobs running on a locked terminal from automatically terminating in this manner. Forced signoff exception definitions apply to jobs running on all terminals.



Password

The system administrator can define **Screen** passwords for individual users from any terminal. Each user is assigned a password for himself, and a second password may be assigned for use by the users' supervisor. Either password is accepted to release a locked terminal screen.

Individual User

To set a password for an individual user, perform the following procedures:

1. Select **31.Individual User** from the **Definitions** menu (this is the equivalent to running the command *GRCHGPWD*). The **Change iSecurity Password** screen appears.
2. Enter your information in the fields on the screen.

Parameter or Option	Description
User password	Specify the internal password assigned to the terminal user.
User profile name or *	Specify a user profile or name that the password will be associated to. The default (*) is set as the current user.
Manager	Specify the name of an existing user profile, which has permission to release a locked terminal of a user using the internal password of the product. * SAME – The group user profile does not change * NONE – Any user or group user profile is associated with this user profile.

Groups of Users

To set a password for multiple users, perform the following procedures:

1. Selecting option **32. Multiple Users** from the **Definitions** menu. The **Work with Multiple Passwords** screen appears.
2. Enter the correct field in **User**.



Option	Description
Name	Specify a user name
generic	Display user by generic name. (For example, <i>D</i> will display all users whose name starts with a 'D'.)
*ALL:	This option is allowed only for the <i>QSECOFR</i> or to member of his user group. Selecting <i>*ALL</i> (the default) will enable all the users of the system to be shown together with their description, their group user and the date of the last password change. The user's password is not displayed.

NOTE: *If "Manager" is changed, the password must be reentered. To remove a manager, enter *NONE.*

Password Subsystem

The password system contains a complete set of passwords. The user can update this set of passwords according to the security policy in his unit. The password can be equivalent (or different) to those in the operating system. The passwords are encrypted by a method that does not allow retrieval.

Apart from the password one can also define for each user a name of another user that can release him from security system locks. As this is usually the head of the group we will refer to him as the "Manager".

Chapter 6: Working with Reports/Queries

The system collects activity information in a log file. The information includes all LOCKS, RELEASES, JOB-END/HELD AFTER LOCKS. For each entry, the time stamp and the results are attached. A reporting system enables the user to produce reports about **Screen** activity.

The available report types can be run in batch or interactive mode. Interactive reports are under the 'Display Log' heading, whereas batch reports are under the 'Print Log' heading. The output is sent to *SMZTMPA/WSPRINT*.

To work with reports and queries, select **31. Display Log** from the main menu. The **Display Screen Activity Log** appears.

```

GSTRPT                               Display Screen Activity Log                System:  S720

Select one of the following:

1. All Entries
2. Locks Enforced by Monitor
3. Job-Ends after Locks

Selection or command
===> █

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

Display Screen Activity Log

Menu Option	Description
All Entries	This report contains both Enforced Locks as well as Job-Ends.
Locks Enforced by Monitor	This report contains only Enforced Locks.

Select one of the following and the **Display SCREEN Log (DSPSCLOG)** screen appears:



```

Display Screen Log (DSPSCLOG)

Type choices, press Enter.

Report Type . . . . . > *ALL          *LOCKS, *EOJ, *ALL
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
Terminal . . . . . *ALL              Name, generic*, *ALL
Output . . . . . *                   *, *PRINT-*PRINT9

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

Display Screen Log

Parameter	Description
*LOCKS	Screen locks made by the terminal
*EOJ	End job after lock
*ALL	All reports, dates, or users (depending on where this parameter is placed)
Name	User/terminal name
Generic	Display user/terminal by generic name. (For example, <i>D*</i> will display all users whose name starts with a 'D'.)

Chapter 7: System Configuration

This option enables you to determine the different modes that the system can operate in, i.e. the amount of time between successive checks, or the number of attempts a user is allowed to enter a password.

To set configuration for all the **iSecurity** Suite products, select **81. System Configuration** from the **Screen** main menu.

```

*FYI* Mode Active      iSecurity (part I) Global Parameters

Select one of the following:

Firewall
  1. General Definitions
  2. Server specific options
  3. User Exit Programs
  4. Transaction Post Processing
  5. Intrusion Detection System
  6. Password Exit Programs
  7. Enable ACTION (CL Script + more)
  8. SYSLOG
  9. Log Retention

Screen
  11. General Definitions
  12. Customize Messages

Password
  21. Password Dictionaries

System Configuration
  81. iSecurity/Base

General
  91. Language Support
  99. Copyright Notice

Selection ==> █

Release ID . . . . . 14.6 09-02-19 4465D5A 720 206A
Authorization code . . . . . _____ 0

F3=Exit  F22=Enter authority code

```

iSecurity (part I) Global Parameters

Screen General Definitions

To configure **Screen**, select **11.General Definitions** from the **Global Parameters** menu. The **Screen General Definitions** screen appears.



```

Screen General Definitions

Type options, press Enter.
Auto Dim screen is required. . . . . Y   Y=Yes, N=No
Minutes between checks . . . . .      3

Maximum Passwords retries . . . . . 0   0=Use QMAXSIGN system value
                                           99=*NOMAX

Check Pass-Through previous pwd. . . . . B   Y=Yes, N=No, B=Both systems
End job by means of . . . . .          1   1=ENDJOB
                                           2=VARY OFF
                                           3=HLDJOB

Inform about screens in which - GRINIT has not been entered. . . . . M   M=Send informative message
                                           N=No

Internal Password Validation pgm Library . . . . . *NONE   Name, *NONE
                                           Name, *LIBL

Schedule type . . . . .                2   1=Yearly, 2=Weekly

F3=Exit  F12=Previous
  
```

Screen General Definitions

Parameter or Option	Description
Automatic Dim Screen	<p>Yes =Activate this feature</p> <p>No = Do not activate this feature</p> <p>If the same information is displayed on a screen for a long period of time, the characters become fixed on the screen and are visible even when the screen is not operated. The data will appear as a dark shadow even when something else is displayed on the screen. Therefore, the auto dimming option is important for workstations that do not have auto dim, such as PCs and older workstations. Workstations with auto dim, but do not use this option can also benefit from it.</p>
Number of minutes between checks	<p>Setting this option will define how many minutes will pass between successive checks. The default value is 3.</p>
Maximum Password retries	<p>Enter the number of retries allowed before the terminal is locked.</p> <p>0 = The number will be taken automatically from the system value (<i>QMAXSIGN</i>) that defines the number of trials for entering the operating system password.</p> <p>99 =Unlimited number of trials (<i>*NOMAX</i>)</p>



<p>Check Pass-Through previous pwd.</p>	<p>Pass-Through terminals (Home to Target) are protected by Screen; on the Target system. The following choices are available for this setting. Y=YES - The lock state can be ended if the entered password corresponds to the SIGNON Home System. N=NO - The lock state can be ended if the entered password corresponds to the SIGNON Target System B=BOTH SYSTEMS - The lock state can be ended if the entered password corresponds to either the SIGNON Target System or the SIGNON Home System.</p>
<p>Inform about screens in which GRINIT has not been entered.</p>	<p>M=Send informative message N=No</p>
<p>End job</p>	<p>Select the way you wish to extend the control of terminating a job. ENDJOB - End all active jobs (this is the default) VARY OFF - End all jobs then vary off terminal JLDJOB - Hold the active job.</p>
<p>Internal Password Validation pgm & Library</p>	<p>There are two passwords in Screen - entered by the user and entered from the product. If the user internal security program is enabled, it will replace the user password by its own password (10 characters) and the Screen password by a system password called GSPASSWORD. If the contents of GSPASSWORD are identical to the Screen password, the user internal security program is run; otherwise an error will occur before the end of the run. *NONE: No user internal security Name: The name of the security program *LIBL (Library): Enter the library name</p>

Translation

All screen sections that the user sees can be translated. To translate a screen, select option **12. Customize Messages** from the **System Configuration** menu. An example follows.



```
Screen Translation

Type options, press Enter.

Guard screen "constants"
  SYSTEM: █ System:
  JOB: Job . :
  USER: User. :
  NUMBER: Number:
  This terminal is locked by iSecurity/Screen, the workstation guard.
  Enter password to return to work:
  F24=End all jobs that are active in this terminal.
  Screen is processing this terminal
  The workstation guard
  LOCK state is being established
Error messages
Password not valid for system.
Next invalid signon makes end of job.
Your terminal was left unattended. Answer with some data to keep it active.
Terminal held by the GUARD system. To release call the System Operator.

F3=Exit F12=Previous
```

Screen Translation

All visible “constants” and messages are displayed. Overwrite them with your text, clear the field and press **ENTER**.

To translate the help text, follow these procedures on the following page.

1. Create a new member in the *GRSOURCE* file in library *SMZ8*.
2. Copy the original help text to it.
3. To translate as required without altering the control records identified by .PGM, .FMT, etc, select *I2* from the **System Configuration** menu and enter the name of the new member at the bottom of the translation panel.

Chapter 8: Implementation

In order for a terminal to be monitored by the product, the command **GRINIT** must be run from that terminal. Performing one of the following to do this:

- Add the **GRINIT** command to the initial program of the users that you want to protect.
- Force **GRINIT** to run for all jobs (no change in any program)

Each time a terminal needs to be protected, and **GRINIT** has not been run, a message is sent to the **QSYSOPR**. If you want to separate these messages, create a message queue named **SCREEN** in library **QGPL**, and the messages will be directed to it automatically.

Adding the GRINIT Command in the Initial Program

In the initial program of the users that you want to monitor, add the following commands:

- **GRINIT**
- **MONMSG CPF0000**

These commands should be added so that they will be executed before any screen is displayed.

Forcing GRINIT to Run for All Jobs

When an interactive program terminal signs on, a specific “routing entry” is selected from an interactive sub-system to execute it. The routing entry specifies which program will have control. That program is almost always **QCMD** from **QSYS**. The following procedure will change the program name to another program that will initiate **GRINIT** and only then will it call **QCMD** from **QSYS**.

To ensure the insertion of **GRINIT** for all users, without having to add the **GRINIT** in all initial programs, the following procedure (designed to prevent possible problems) should be followed, even if the product is no longer installed on the system.

The source of program is included in file **GRSOURCE**, library **SMZ8** member **GR#44QCMD**.

The procedure is as follows.

1. Duplicate the **GR#QCMD** program into **QGPL -CRTDUPOBJ GR#QCMD SMZ8 *PGM QGPL**
2. Transfer your job to the controlling subsystem - **TFRJOB QCTL**
3. Ensure no user is using sub-system **QINTER - DSPSBS QINTER**
4. Terminate the sub-system - **ENDSBS QINTER**
5. Print the **QINTER** sub-system description - **DSPSBSD QINTER OUTPUT(*PRINT)**
6. Look at the note on “routing entries” in the “what is happening” section of the previous page.



7. Repeat the following for each line that contains program *QCMD* library *QSYS* as the program to get control - *QCMD* library *QSYS* as the program to get control - *CHGRTGE SBSD(QINTER) SEQNBR(number) PGM(QGPL/GR#44QCMD)*
8. Start sub-system *QINTER* - *STRSBS QINTER*
9. Repeat this procedure for all other interactive subsystems.

Parameter or Option	Description
Opt	1 = Select this rule for modification 3 = Copy this rule for another user 4 = Delete this rule
F6	Add new rule
F8	Print rules