

Mobile Communications

EDACSTM SYSTEM MANAGER

(Enhanced Digital Access Communications System)

User's Guide For Version 3.XX (Group 3)

User's Guide

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	0) ALARM CONTROL DISPLAY	
	1) RELAY TRIGGER DEFINITIONS	•
5) RA	DIO CONTROL	
	0) UNIT ENABLE/DISABLE	
	1) DYNAMIC REGROUP	
	2) MULTISITE UNIT LOCATION	
	3) MULTISITE GROUP LOCATION	
6) RE	PORTS	
	0) DEVICE REPORT	•
	1) LOGICAL UNIT	•
	2) GROUP	•
	3) ACTIVITY DETAIL	•
	4) ACTIVITY SUMMARY	•
	5) ALARM	•
	6) CHANNEL STATISTICS	•
	7) SITE STATISTICS	•
	8) EVENT LOG DISPLAY	
	9) REPORTS MANAGER	•
7) SY	STEM MAINTENANCE	
	0) AGENCY PARTITION TABLE	
	1) USER ACCOUNT MAINTENANCE	
	2) DATABASE ARCHIVE	
	3) DATABASE RETRIEVAL	
	4) ACTIVITY ARCHIVE	•
	5) ACTIVITY RETRIEVAL	
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INTRODUCTION

GENERAL

This manual is provided as a reference guide for supervisory level users of the EDACS (Enhanced Digital Access Communications System) System Manager operating with Version 3.XX software. The manual contains information on the keyboard functions, log in/log off procedures, as well as a brief explanation of the different configurations available. A representation of each menu and help information for each screen is also provided.

A separate manual is available for the Installation/SetUp procedures. Refer to LBI-38703.

CONFIGURATIONS

There are five different configurations available, depending on system requirements. All of the configurations require a VAX 3100 computer from Digital Equipment Corporation (DEC) with the necessary RAM, hard drives and peripherals. Figure 1 provides a hardware/software matrix of each system configuration and equipment supplied.

			Software Options	
		CORE FEATURES Site, Unit, Group Definitions, Toll Call Restrictions, Channel Call Test Reconfig. Site, Unit, Group Reports, Report Manager, Event Log, Site Monitor, Database Archive and Retrieval, System Backup	MID FEATURES Alarm Control & Relay Trigger Display, Full Activity Detail & Summary, Alarm Reports, Channel and Site Statistics, Activity Archive and Retrieval Unit Enable/Disable, Disk Manager	FULL FEATURES All Core and Mid Features Plus: System Assigned Console ID's, Dynamic Regrouping, Multi-site Unit Location, Multi-site Group Location
A1 1 1 0	MSC Sites Terminal	Simple configuration supporting a single site with minimal software features	Single site with more complete software options lacking only dynamic regroup (no need for multisite location for single site application).	Single site with full software options.
A2 5 1-2	MSC Sites Terminals	Multisite configuration with minimal software features	Multisite configuration with more complete software features	Multisite configuration with full software features
A3 1 10 1-5	MSC Sites Terminals	Larger multisite configuration, minimal software features	Larger multisite configuration with more complete software features	Larger multisite configuration full software features
A4 1 20 1-11	MSC Sites Terminals	Large multisite configuration, minimal software features	Large multisite configuration with more complete software features	Larger multisite configuration full software features
A5 1 30 1-17	MSC Sites Terminals	Largest multisite configuration, minimal software features. Any hardware configuration larger than this is a special.	Largest multisite configuration with more complete software features. Any hardware configuration larger than this is a special.	Largest multisite configuration with full software features. Any hardware configuration larger than this is a special.

Figure 1 - System Manager Product Offering Matrix

HARDWARE OPTIONS

LBI-38984

KEYBOARD FUNCTIONS

The System Manager uses a standard DEC keyboard. This allows the user to access all of the menus, and to enter or change information on the site/location screens. The various menus and screens can be easily accessed using the number or cursor (arrow) keys. Any changes, updates or other information entered can be saved, cleared or deleted by using the various function (F) keys. The keyboard layout is shown in Figure 2.



Figure 2- System Manager DEC Keyboard

A brief explanation of the DEC keyboard functions is shown below. Unique functions of some of the (F) keys are defined with the appropriate screens.

- **RETURN** Enters information into a field and causes the cursor to move to the next field.
- [Up Arrow] Moves to the previous field (also decreases numbers in the Enter Menu Item field).
- [Right Arrow] Moves the cursor right.
- [Left Arrow] Moves the cursor left.
- [Down Arrow] Moves to the next field (also increases numbers in the Enter Menu Item field).
- **Help** Displays help information for the current screen.
- **F9** Pressing **F9** toggles the function key definitions for **F1** through **F20** at the bottom of each screen. Only the keys used for each screen are displayed.
- Ctrl W Redraws the screen.

F6 EXIT Press **F6** to return to a main category screen.

F7 Logs off the system manager from the Main Menu.

Do Performs a save or change, (i.e., writes to the Database or Site).

Find & Select Work together to show and select other sites from any working menu or screen. They also provide the Device Number and Device Type of a particular site when in any working menu except the User Menu. In addition, the **Find** and **Select** functions do not operate in screens not supported by optional hardware or software.

Figure 3 shows the External Device screen 1:4 with site 1 selected. To access any other site record while in screen 1:4, press the **Find** key. The screen displays the Select Device pop-up menu (see Figure 4). Then use the down arrow to highlight the desired site. An asterisk (*) shows to the left of the selected site number. Simply press the **Select** key to switch to screen 1:4 and the selected site record.

To switch back to your original screen or another site, press the **Find** key and move the asterisk to the desired site, and press **Select**. You will then switch to the selected site screen.

DACS System Mana	ige:	ſ	Extern	al	Device	Def	initio	n	[5	MGT	GŢļ	EGES	YSMGR
Selected Device-													-CREATE
Device Number	:	1					Device	Name	:	SC	OTTE	ST	
Device Type	I	SITE											
Channel Configu	at	ion											1:4
-			1		2								
		1234567	8901234	567	8901234	456						123	45678
RF	:	NNNNNN	NNNNNN	NNN	INNNNNN	N		Rel	ay	on	:	NNN	NNNNN
Interconnect	:	NNNNNN	NNNNNN	NNN	INNNNN	N							
Digital Voice	:	NNNNNN	NNNNNN	NNN	NNNNNN	N.							
Data	1	NNNNNN	NNNNNN	NNN	INNNNNN I	N							
Partition 2	1	NNNNNN	NNNNNN	NNN	INNNNNN	N							
Allowed CC	:	NNNNNN	NNNNNN	NNN	INNNNNN	N							
Wide Area	:	NNNNNN	NNNNNN	NNN	NNNNNN	N							
Downlink	:	NNNNNN	NNNNNN	NNN	NNNNNN	NNY							
						_		_					•
(F6 = Exit) (F8)	= ;	Delete R	ecord)	(F	10 = C	lear	Record	a) (F1]	L = 1	Next	Rec	ord)

Figure 3 - External Device Menu 1:4

EDACS System Manage	r Ex	ternal 1	Device	Definition	1 [SMGTGT)	EGESYSMGR
Selected Device Device Number : Device Type :	l SITE			Device	Name :	SCOTT	CREATE- EST
Select Device [*] 2.RATTEST [] 3.RADIOLAB [] 4.LAWSITE [] 5.MSDS 3 [] 6.MSDS 4 [] 7.GETC1E [] 9.LABGNET [] 13.SCATBLAB Downlink :	ion 1234567890 NNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNN	1234567 NNNNNN NNNNNNN NNNNNNN NNNNNNN NNNNNNN	2 8901234 NNNNNN NNNNNN NNNNNN NNNNNNN NNNNNNN NNNN	156 7 7 7 7 7 7 7 7 7	Relay	on :	1:4- 12345678 NNNNNNN

Figure 4 - Menu 1:4 With Selected Devices Window

GETTING STARTED

LOGIN

Once your terminal is turned on, the System Manager Login screen is displayed with the cursor blinking at the USER-NAME field (see Figure 5). If the Login screen does not appear, press **Return** again. If the screen still does not appear, check the terminal setup (see LBI-38703).

When you first log on the System Manager, your user name is EGESYSMGR and your password is EGESYSMGR.

NOTE

To protect the security of the system, use the User Account Maintenance function to change your password after the first login. A 12-character password is recommended for maximum security.

EDACS System Manager

USERNAME: PASSWORD:

Figure 5 - Login

Login the System Manager as follows:

- 1. Type in your USERNAME and press Return.
- 2. Type in your PASSWORD and press Return.
- 3. The User Menu now appears.

RECORDS

A record is a collection of all of the configuration data from all the screens in a Main Menu selection (i.e., four screens for Site configuration). The individual fields on the screens are the attributes within that record.

To Create a Record:

- 1. Enter a new Site, LID, or GID Number. The word CREATE appears in the upper right corner of the screen.
- 2. Enter all required fields. These are identical to the required fields in the screens described in the following paragraphs.
- 3. Press the **Do** key to save the screen.

To Locate a Record:

- 1. Enter the Site, LID, or GID Number or Site, Unit, or Group Name.
- 2. Press Return.

NOTE

If the requested record name cannot be found, the closest record in alphanumeric order is displayed.

To Modify an Existing Record:

- 1. Locate the record. The word **MODIFY** appears in the upper right corner of the screen.
- 2. Make desired changes on the screen.
- 3. Press the **DO** key to save the screen.

To Delete a Record:

- 1. Locate the record. The word **MODIFY** appears in the upper right corner of the screen.
- 2. Press **F8** to delete all entries from the fields on the screen.
- 3. Press **F8** again to confirm the delete operation.

<u>User Tip</u>: When creating or modifying a record, and before the screen is saved, you can delete all of your entries by pressing F10. This is a quick way to clear the fields if you want to start over.

MENU SELECTIONS

All of the categories containing the site and system parameters that can be created or modified are contained in the User Menu. The user Menu contains two windows, with each window containing a list of numbered functions. These functions are normally accessed when the system is first put on-line, and are used only occasionally after the initial system configuration. A typical User Menu screen is shown in Figure 6.

The User Menu functions allow you to setup selected system parameters. These parameters control the operating parameters of each of the radio units at the different sites/locations; determining, 1) how each operates in the system, 2) how they interact with each other, and 3) how the system handles different operating events. More details on the User Menu are contained in the USER MENU section below.

The cursor present in the User Main Menu controls selections. Functions can be accessed from the prompt either by typing in the function number and pressing the RETURN or by selecting highlighted functions with up or down arrow keys and then pressing the RETURN key. If you are very familiar with the System Manager, the fastest method is to type the function number, then press the **RETURN** key.

ENDING A SESSION

After you have finished using the System Manager, you should exit to the System Manager Login screen. This terminates the session and prevents unauthorized use of the System Manager. Log off the System Manager as follows:

- 1. If the User Menu is not displayed, exit the current screen and return to the Main Menu.
- 2. Then press F7 (EXIT from System Manager).

NOTE

It is recommended that you log off the System Manager when you are away from the terminal, or at the end of a session. This helps prevent unauthorized use of the System Manager.

USER MENU

The User Menu screen is the first screen you see after Login. <u>All</u> of the Menu Selections listed under <u>Main Categories</u> and <u>Database Maintenance</u> screens are initially displayed in this menu.

The User Menu is divided into two major windows consisting of the Selected Menu Item and the Menu Selections. The Selected Menu Item window is the command window that allows you to select the different screens from the Menu Selections categories. The Menu Selections window highlights the selected categories and acts as a reference guide. The complete User Menu is shown in Figure 6 with: 1) Database Maintenance selected (highlighted) in the Main Categories window, and with 0) Site / Device Definition selected in the Database Maintenance window.

The Menu Selections window is divided into two additional windows as shown in Figure 6. The window on the left is titled Main Categories, and shows all of the functional areas that the System Manager controls. The window to the right of the Main Categories window is titled the same as the selected (highlighted) category in the Main Categories window and displays subselections (functions).

lected Menu Item	
Enter Menu Item : 10	
nu Selections Main Categories	Database Maintenance-
1) Database Maintenance	0) Site / Device Definition
Site Reconfiguration	1) Logical Unit Definition
 Device Communication 	2) Group Definition
4) Alarm Control	3) Rotary Definition
5) Radio Control	4) Line Definition
6) Reports	5) Toll Call Restrictions
5ystem Maintenance	6) ACU Parameters
	71 Console Definition

(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)

Figure 6 - User Menu Screen

The cursor remains at the Enter Menu Item prompt (two-digit number) in the user menu. Functions can be accessed from the prompt either by typing in the function number and pressing the RETURN or by selecting the highlighted function with up or down arrow keys and then pressing the RETURN key. If you are very familiar with the System Manager, the fastest method is to type the function number, then press the RETURN key.

When the cursor is resting on the "tens" digit at the Enter Menu Item prompt, you can use the up and down arrow keys to change the digit and move the highlighted selection in the Main Categories window accordingly. You will notice that the window on the right changes, displaying subselections for each category selected. When the cursor is resting on the "ones" digit at the Enter Menu Item prompt, the up and down arrow keys change that digit and move the highlighted selection in the Database Maintenance window accordingly. The left and right arrows are used to switch between the "tens", and "ones" digit. When the desired category and function are highlighted, press the RETURN key to access that function.

For example, press the down arrow until "6) Reports" is highlighted in the Main Categories window. You will notice that the window on the right is entitled "Reports". Move the cursor to the "ones" digit by pressing the right arrow. Press the down arrow until "2) Group" is highlighted in the Reports window. By pressing the RETURN key, you will access the first screen for the group ID reports. Press F6 to return to the User Menu.

Each of the functions has from to one to nine additional numbered screens containing the System Manager field definitions and parameters. The first of these screens is accessed by pressing **Return** when the desired function is selected in the Enter Menu Item field. Additional field definition screens, if present, are accessed by pressing the **Next Screen** key.

Each of the user screens and menu selections are explained in this manual. Each screen has an explanation telling what type of information must be entered in each field with the system defaults, where applicable. <u>All</u> information in the field definition screens must be entered for System Manager to accept and save the information.

To assist in the explanation of the various screens, the following screen descriptions show the Main Categories window selections as centered headings preceded by digits 1) through 7) as shown below [i.e., 1) DATABASE MAINTENANCE]. The Database Maintenance (or other function) window selections are shown as headings on the left of the page preceded by digits 0) through 6) [i.e., 0) Site/Device Definition].

1) DATABASE MAINTENANCE

There are seven categories shown in the Database Maintenance screen. These categories are listed in the Database Maintenance window as 0) through 6). Each of these categories has one or more field definition screens. The first field definition screen (Select Screen) is accessed by pressing the **Return** key. Additional screens require pressing the **Next Screen** key.

0) SITE/DEVICE DEFINITION

The Site/Device Definition under the Database Maintenance main category, item "10", defines the default channel configurations for each site. The function also defines the various site and device parameters. These default values are used by the Site Controller when first powered up, and remain in effect until the desired parameter changes are made to the database for each individual system.

When the Site/Device Definition function has been selected, (i.e., screen number 10 shown in Figure 7), pressing Return causes display of the External Device Definition screen. There are four External Device Definition screens, numbered 1:4 through 4:4. The configuration screens are :

- 1:4 Channel Configuration
- 2:4 Site Parameters
- 3:4 Site Test Parameters
- 4:4 Communications Parameters

Each of these screens contains two windows; a Selected Device window and a Parameters window. The cursor appears first in the Selected Device window at the device (site) number prompt. Typing in the device number displays the Parameters

NOTE

All of the Selected Device screens as well as the function key definitions at the bottom of each Site/Device Definition screen are identical for screens 1:4 through 4:4.

window (with the screen number) just below the Selected Device window.

A typical view of the User Menu plus the Selected Device and Unit Identification screens 1:4 through 4:4 are shown in Figure 7.

Selected Device

Device Number: Numeric designation of a site number (1-32), or a device (33-64).

Device Type: There are different screens for different device types. The screens shown are for site controllers. There are also screens for MultiSite Controllers (MSCs).

Device Name: Up to an eight-character alphanumeric site name that must be unique for all devices.

Screen 1:4 Channel Configuration

RF: Designates working channels and a control channel. Enter C in one position (only) to designate the control channel. Enter **Y** to designate (all) working channels. Enter **N** (default) under all unused channels.

Interconnect:	Designates channels equipped to handle telephone interconnect. Enter \mathbf{Y} under (all) channels equipped for telephone interconnect, or \mathbf{N} (default) under unused channels and channels not equipped for interconnect.
Digitized: Voice	Designates channels equipped to handle digitized voice transmissions. Enter \mathbf{Y} under channels equipped for digitized voice or \mathbf{N} (default) under unused or non-equipped channels.
Data:	Designates channels equipped to handle data transmissions from mobile data terminals. Enter \mathbf{Y} under channels equipped to handle data transmissions or N (default) under unused channels and channels not equipped for data transfers.
Partition 2:	Assigns a set of channels for special assignment to selected radios and groups. Enter \mathbf{Y} for a test channel, or \mathbf{N} (default) for a normal partition.
Allowed CC:	Designates a channel with control channel capability. Enter \mathbf{Y} for control channel capability, or \mathbf{N} (default) to disable (prohibit control channel use).
Wide Area:	Enter a \mathbf{Y} on the channel configuration to allow this channel to be used in a multisite configuration. This allows a "Wide Area" of coverage. Enter a \mathbf{N} to disable Wide Area communication for this channel.
Downlink:	Designates a channel number to be used as a redundant downlink to the Multisite coordinator or console. Channel 26 is always assumed to be the primary downlink (default). Enter Y to enable.
Relay on:	Relay number headings 1-8 for the relay state fields correspond to the eight control output relays at the Test And Alarm Unit (TAU). Enter N (default) under the number of the relays you want to remain in the reset state. Enter Y under the number of the relays you want set when a RECONFIGURATION request is submitted to the Site Controller.

Screen 2:4 - Site Parameters

Press Next Screen to access the Site Parameters screen from the Channel Configuration screen.

The Site Parameters screen contains the Channel Assignment Parameters in the first column, and Miscellaneous Parameters in the second column. A typical example of Site Parameters Screen 2:4 is shown in Figure 7.

Channel Assignment Parameters

Transmission Conv Limit:	Sets the transmission conversation time limit for transmission trunked calls. Time is expressed in seconds $(x10)$ with a default setting of 30 (300 seconds or 5 minutes).
Message Conv Limit:	Sets the conversation time limit for message trunked conversations. Time is expressed in seconds $(x10)$ with a default setting of 30 (300 seconds or 5 minutes).
Interconnect Hang Time:	The time between an unkey command and channel drop for telephone interconnect calls in seconds. Hang time is expressed in seconds with a default of 30.



NOTE: The "Selected Device" section of the display remains on the screen when the Next Screen key is used to display 2:4, 3:4, & 4:4 (see Figure 7A)

Figure 7 - Database Maintenance: Site Device Definition (Screen 10) (Includes External Device Definition screen 1:4)



Figure 7A - Database Maintenance: Site Device Definition (Screen 10) (Includes External Device Definition screens 2:4 through 4:4)

Emergency Hang Time:	The time between an unkey command and a channel drop for emergency calls. Hang time is expressed in seconds with a default of 2.
Rotate Assignments:	Enter \mathbf{Y} (default) if you want the working channel assignment rotated by the system. Enter \mathbf{N} to prevent automatic working channel rotation.
Assign Chan Ascending:	This field sets the order in which the Site Controller makes working channel assignments. Enter \mathbf{Y} (default) to assign channels in ascending order starting at one. Enter \mathbf{N} to assign channels in descending order starting from the highest channel number.
Recent Call Queue Interval:	During times when calls are queued, the queue priority of a call may be increased by one half. The queue priority is incremented if the time between the last call request and current request is less than the Recent Call Queue Interval. Interval range is from 0 to 30,000 milliseconds (30 seconds), with a default of 5,000 milliseconds (5 seconds).
Max # Concurrent Intcon:	Sets the maximum number of simultaneous telephone interconnect calls permitted on the system. This two-digit field defaults to 2.
Max # Concurrent Indiv:	Sets the maximum number of simultaneous individual calls permitted on the system. This two-digit numeric field defaults to 20.
Miscellaneous Parameters	
Morse Code ID Intrvl:	The time interval in minutes between transmissions of the Morse Code site identification (ID). The time interval range is from 1 to 30 minutes with a default of 15 minutes.
Scramble Data Call Int:	The system is capable of placing random data calls on working channels to discourage un- authorized monitoring of the system. This field sets the length of time in seconds between data calls. The range is from 0 to 32,767 with a default of 5. A value of zero will inhibit this feature.
Activity Dump Threshold:	The number of activity records contained in the Site Controller activity file required before the start of a download (defaults to 1,000). A download will dump the activity file to the System Manager. The threshold range is from 1 to 16,383 records. We recommend no less than 500 for this field.
Assign Non-adjacent Channels:	Use the alternating channel assignment algorithm to avoid intermodulation. Enter \mathbf{Y} to enable or \mathbf{N} (default) to disable. This is normally enabled for 900 MHz systems.

Screen 3:4 - Site Test Parameters

Press Next Screen to access the Site Test Parameters screen from the Site Parameters screen.

The Site Test Parameters screen contains the Test Equipment and Alarm Responses parameters. A typical example of the Site Test Parameters screen 3:4 is shown in Figure 7.

Test Equipment Parameters

Power Monitor Unit Enabled:	Enter \mathbf{Y} (default) to enable the P ower M onitor Unit (PMU). Enter N to disable the PMU.
PMU Power Level:	Sets the Power Monitor Unit (PMU) alarm threshold of the output power level for each transmitter channel. If the power level drops below the specified level, a PMU alarm is issued. Power level alarm threshold can be set from 0 to 255×10^1 (0 to 2,550 watts) with a default of 3 (30 watts).
Test Unit Enabled:	Enter Y (default) to enable the Test Unit (TU). Enter N to disable the TU.
Local Test Unit:	Indicates whether the TU is a local or a remote unit. Select the icon for the test unit type at the site.
Background Testcall Interval:	Sets the length of time between background test calls in minutes. The range is from 0 to 1440 (24 hours). The default value is 5. Entering a value of 0 inhibits background test calls.
Alarm Responses	
Respond to Carrier Failure:	Determines if the site responds to a reported carrier failure. Enter \mathbf{Y} to enable or \mathbf{N} to disable. The default is \mathbf{N} .
Respond to Phone Line Failure:	Determines if the site responds to a reported phone line failure. Enter \mathbf{Y} to enable or \mathbf{N} to disable. The default is \mathbf{Y} .
Respond to Auxiliary Alarms:	Determines if the site responds to a reported auxiliary alarm failure. Enter \mathbf{Y} to enable or \mathbf{N} to disable. The default is \mathbf{Y} .

Screen 4.4 - System Manager Communication Parameters

Press Next Screen to access the System Manager Communications Parameters screen from the Site Test Parameters screen.

The Communications Parameters screen contains the Communications Parameters in the first column, and Software Parameters in the second column. A typical example of System manager Communications Parameters Screen 4:4 is shown in Figure 7.

Communications Parameters

Device Password	Password for the device that was coded into the Site Controller or MSC personality PROM.
Device Internal ID	ID for the device that was coded into the Site Controller or MSC personality PROM.
Prim line Phone No.	Lists the phone number of lines/devices. This field accepts from 1 to 16 alphanumeric characters.

Prim Line Port Name:	Defines the Port name of Primary Line devices (examples: TTA1:, LTA1:, or TXA1:).
Prim Line Baud Rate:	Sets the Port Baud Rate for the Primary Line. The field range is: 0, 1200, 2400, 4800, 9600, 19,200 baud. The default is 9600 baud.
Software Parameters	
Message Retry Attempts:	Sets the number of retry attempts allowed for sending messages. The field range is from 0 to 10 tries. The default is 3 retries.
Dial Retry Attempts:	Sets the number of dial out retries to establish a modem link with device. The field range is from 0 to 10 tries. Defaults to 10 retries.
Attach Time Interval:	Time interval in seconds from device login to System Manager log out. The field range is from 10 to 60 seconds. The default is 10 seconds.
Acknowledgment Timeout:	Sets the amount of time (in seconds) that the System Manager waits for device acknow- ledgment before dropping line. The field range is from 5 to 60 seconds, and defaults to 15.
Disconnect Hang Time:	Determines the amount of time (in seconds) the System Manager waits to drop the line after all users log out. The field range is from 10 to 60 seconds. The default is 15 seconds.
Sanity Poll Interval:	Determines the amount of time the System Manager waits for a site to send data before sending a poll message to the site. The field range for the Device Sanity Poll is from 2 to 60 seconds. The default is 5 seconds.
Carrier Timeout:	Determines the amount of time [in seconds (5 - 60)] the System Manager waits for modem carrier detect for dial-up devices. This field defaults to 25 seconds.

1) LOGICAL UNIT DEFINITION

The Logical Unit Definition under Database Maintenance main category screen, item "11", describes the individual radio units, their operating parameters and default values. The default values are used by the Site Controller when first powered up, and remain in effect until the desired parameter changes are made to the database for each individual system.

When the Logical Unit Definition has been selected, (i.e., main menu selection "11"), pressing **Return** displays the Selected Unit window. This window contains fields for the unit (radio) number, name, ID, serial number, asset number and unit type. The cursor appears first at the Unit (radio) number. Typing in the number displays the radio Description screen 1:3 just below the Selected Unit screen.

Unit Definition is made on three Unit Identification configuration screens. Each of these screens contains two windows; a Selected Unit window and a description or parameters window. Each of these windows contains related fields. The Unit Identification screens are numbered 1:3 through 3:3. These numbers appear at the top right of each screen. The configuration screens are:

- 1:3 Description
- 2:3 Radio Parameters
- 3:3 Wide Area

NOTE

All of the Selected Unit screens as well as the function key definitions at the bottom of these screens are identical for screens 1:3 through 3:3.

Radio description screen 1:3 contains the individual radio "owner/operator" characteristics. A typical view of the User Menu, the Selected Unit screen with the Logical Unit Definition screens 1:3 through 3:3 is shown in Figure 8.

Selected Unit

Unit Number:	A unique number (0 to 16383) given to each radio unit in the system. Unit 16383 accesses a record that defines the default values for Unit Identification screens.		
Physical ID:	A unique number (0-999999999) that identifies the radio unit. This is a 9-digit field.		
Unit Type:	A description of the unit (mobile, portable, console, etc.). Press Select for types of units.		
Unit Name:	A unique eight-character alphanumeric name that identifies the radio.		
Serial Number:	A unique 16-character alphanumeric field listing the serial number of the radio unit.		
Asset Number:	A unique 16-character alphanumeric asset identification number.		
Screen 1:3 - Description			
Agency:	A 16-character alphanumeric name of the agency to which the radio has been assigned.		
Department:	A 16-character alphanumeric name of the department to which the radio has been assigned.		
Property Asset:	A unique 16-character alphanumeric field for recording the property asset.		
Operator:	A 16-character alphanumeric field for recording the name of the operator of the radio unit.		
Equipment Type:	A 16-character alphanumeric description of the equipment.		
Additional Comments:	A 40-character field for brief notes, comments, etc.		

Screen 2:3 - Radio Parameters

Press Next Screen to access the Radio Parameters screen from the Description screen.

The Radio Parameters screen contains the Call Priority parameters in the first column, Radio Features in the second column, and Interconnect parameters in the third column. A typical example of the Radio Parameters screen is shown in Figure 8.





Call Priority	(NOTE: for all priorities, 0 is the lowest priority and 7 is the highest you can enter)		
Voice:	Determines the queue priority for voice calls. Priorities range from 0 to 7 with a default of 0. This priority determines the order that calls are de-queued during clear voice call queuing.		
Data:	Determines the queue priority for calls from a mobile data terminal. Priorities range from 0 to 7. The default is 0.		
Interconnect:	Determines the queue priority for Interconnect calls. Priorities range from 0 to 7.		
Digital Voice:	Determines the queue priority for Voice Guard calls. Priorities range from 0 to 7.		
Radio Features			
Inb Interconnect:	Inbound Interconnect - Enter \mathbf{Y} if the unit is to be allowed to receive inbound interconnect calls, or \mathbf{N} (default) for no inbound interconnect calls.		
Partition 2:	Enables the radio unit for operation on the channels defined for second partition under Site/Device designation. Enter \mathbf{Y} if you want the radio unit to operate on second partition channels. Enter \mathbf{N} (default) for operation on normal channels only.		
Hang Time:	This is the time between an unkey command and channel drop. Hang time can be set from 0-255 seconds. The default value is 0. This controls whether message trunking or transmission trunking is used. Hang time of 0 is transmission trunked. Hang time > 0 is message trunked.		
Interconnect			
Toll Call Restrictions:	A value from 0 to 15 that determines the toll call restriction level for a particular radio unit. The default value is 0.		
Dedicated Line:	A number from 0 to 255 that identifies a dedicated line for outgoing telephone interconnect calls. (A unit with a zero (0) in both the Rotary Number AND Dedicated Line fields cannot access the telephone system.) The default is one (1).		
Rotary Number:	A number from 0 to 15 that specifies the rotary hunt sequence used by the telephone equip- ment when the radio unit places an outgoing telephone call. The default is 0. Zero means no rotary access!		
Screen 3:3 - Wide Area			

Press Next Screen to access the Wide Area screen from the Radio Parameters screen.

The Wide Area screen contains parameters for Multisite or "wide area" radio operation. A typical example of Wide Area screen 3:3 is shown in Figure 8. The Wide Area field affects CTIS and individual calls; group calls use the group database.

Wide Area Enable: Used in Multisite operation to designate a radio as "multisited." If a radio is not designated "multisited," then no other sites (beside the caller's site) are brought into the call. A unit must have wide area enabled if it is to be tracked. Enter Y to enable wide area, or N (default) to disable.
Home Site: A two-digit numeric field specifing a unique home site number for the radio unit. The radio is normally set to the home site.

Home Group:	The communications group programmed into individual radio units is selected when a radio unit declares an emergency, if its personality was set up to do so. This group is also used to restrict access to the unit database, and for multisite tracking operations.
Automatic Tracking:	Used in Multisite operation to enable tracking of a radio. When \mathbf{Y} is entered, the Multisite coordinator displays channels on sites that have group members operating on them. The default for this field is \mathbf{N} .
Confirmed Call Enable:	When \mathbf{Y} is selected, individual calls placed by this unit must be confirmed by all sites (with a channel assignment) designated for the call before the radio can transmit. If \mathbf{N} is selected (default), site confirmation is not required.
Valid Site (for Unit):	Specifies active sites for the group. Enter \mathbf{Y} below the site numbers where the radio is active. Enter \mathbf{N} (default) below site number where the radio is not active.
Forced Site (for Unit):	Specifies sites forced to transmit when an individual call is placed. All sites marked \mathbf{Y} bring up a channel for the call. Enter \mathbf{N} (default) to disable.

2) GROUP IDENTIFICATION

The Group Identification under the Database Maintenance main category screen, item "12", describes call groups, their operating parameters and default values. The default values are used by the Site Controller when first powered up, and remain in effect until the desired parameter changes are made to the database for each individual system.

When the Group Definition is selected, (i.e., main menu item "12"), pressing **Return** displays the Selected Group window (see Figure 9). This window contains fields for the group Id, A/F/S (Agency/Fleet/Subfleet), Group Name and Group Type. The cursor appears first at the group Id. Typing in the Id number displays the group description screen 1:3 just below the Selected Group screen.

The Group Definition consists of three Group Identification configuration screens. The Group Identification screens are numbered 1:3 through 3:3. These numbers appear at the top right of each screen. The configuration screens are:

- 1:3 Description
- 2:3 Group Parameters
- 3:3 Wide Area

NOTE

All of the Group Identification screens and the function key definitions at the bottom of these screens are identical for screens 1:3 through 3:3.

A typical view of the User Menu, and the Selected Group screen with the Group Identification screens 1:3 through 3:3 is shown in Figure 9.

Selected Group

Group Id: A unique number used by the system to identify a communications group.

A/F/S: A set of three fields (one for agency number, one for fleet number and one for subfleet number) obtained from definitions entered in screen 70.



Figure 9 - Database Maintenance Group Definition (Screen 12) (Includes Group Identification Screens 1:3-3:3)

When an agency number is specified, the operator can access all records pertaining to radio units associated with the designated agency and associated fleets and subfleets. When agency <u>and fleet number</u> are specified, the operator can access all records pertaining to radio units associated with the designated fleet and associated subfleets.

Group Name:	A unique eight-character alphanumeric name identifing the group.	
Group Type:	An eight-character alphanumeric description of the group type, such as Fleet, Subfleet, etc.	
Screen 1:3 - Descrip	tion	
Agency:	A 16-character alphanumeric name of the agency to which the group is assigned.	
Division:	A 16-character alphanumeric name of the division to which the group is assigned.	
Address:	Three 16-character alphanumeric fields for entering the group address.	

Screen 2:3 - Group Parameters

Press Next Screen to access the Group Parameters screen from the Description screen.

This screen contains the Call Priority parameters in the first column, and Features parameters in the second column. A typical Group Parameters screen is shown in Figure 9.

Call Priority	(NOTE : All priority fields use 0 as the lowest priority and 7 as the highest.)		
Voice:	A priority number from 0 to 7 (defaults to 0) assigned to normal voice calls. This priority is used by the system to determine the order calls are de-queued during clear voice call queuing.		
Data:	A priority number from 0 to 7 (defaults to 0) assigned to calls placed from mobile data terminals. This priority is used by the system to determine the order message calls are de-queued during data call queuing.		
Interconnect:	A priority number from 0 to 7 (defaults to 0) assigned to telephone interconnect calls. This priority is used by the system to determine the order interconnect calls are de-queued during interconnect call queuing.		
Digital Voice:	A number from 0 to 7 (defaults to 0) assigned to Voice Guard calls. This priority is used by the system to determine the order Voice Guard calls are de-queued during Voice Guard call queuing.		
Features			
Inb Interconnect:	This field is for inbound interconnect calls. Entering \mathbf{Y} in this field allows the group to be accessed through an inbound interconnect call. Entering \mathbf{N} (default) denies access to incoming calls.		
Second Partition:	Enables the group for operation on the channels defined for second partition under Site/Device designation. Enter \mathbf{Y} if you want the group to operate on second partition channels. Enter \mathbf{N} (default) for operation on normal channels only.		
Hang Time:	This is the time between an unkey command and channel drop. Hang time can be set from 0-255 seconds. The default value is 0. This controls whether message trunking or transmission trunking is used. Hang time of 0 causes transmission trunking. Hang times >0 cause message trunking.		

Screen 3:3 - Wide Area

Press Next Screen to access the Wide Area screen from the Group Parameters screen.

This screen contains the wide area parameters for Multisite operation of the Group. A typical Wide Area screen is shown in Figure 9.

Wide Area Enable:	Used in Multisite operation to designate a group or unit as "multisited." If a group is not designated "multisited," then no other sites (beside the caller's site) are brought into the call. Also, a group must be wide area enabled for the unit to be tracked. Enter \mathbf{Y} to enable, or \mathbf{N} (default) to disable.
Automatic Tracking:	Used in Multisite operation to enable tracking of a group. The Multisite coordinator only displays channels on sites that have group members operating on them. Enter \mathbf{Y} to enable, or N to disable.
Confirmed Call Enable:	When \mathbf{Y} is entered, calls placed by this radio unit must be confirmed by all sites (with channel assigned multi-site) designated for the call before the radio can transmit. If \mathbf{N} (default) is entered, site confirmation is not required.
Valid Sites:	Specifies active sites for the group. Enter \mathbf{Y} below the site number if it is active in this group. The default is \mathbf{N} (not in group).
Forced Site:	Entering Y displays the channel whenever this group is called. All sites marked Y respond when the group is called. The default for this field is N (no response).

3) ROTARY DEFINITION

Rotary Definition under Database Maintenance main category screen, item "13", designates the rotary hunt sequence used by the telephone equipment when placing an outbound call. Up to 15 rotary definitions can be used at each site. The Rotary Definition consists of two Interconnect Rotary Definition screens. Each of these screens contain two windows; a Selected Site window and a Line Selection window.

When the Rotary Definition is selected, (i.e., function number 13), pressing **Return** displays the Selected Site window. This window contains fields for the Site Number and Site Name. The cursor appears first at the Site Number. Typing in the Site Number displays the Line Selection screen 1:2 just below the Selected Site screen.

The Line Selection screens are numbered 1:2 and 2:2. These numbers appear at the top right of each screen. Screen 1:2 contains the parameters field for rotary 1 through 8. Screen 2:2 is a continuation of 1:2, and contains fields for 9 through 15. The configuration screens are:

- 1:2 Line Selection (Rotary 1-8)
- 2:2 Line Selection (Rotary 9-15)

A typical view of the User Menu, the Selected Site screen with Line Selection screens 1:2 and 2:2 is shown in Figure 10.

Selected Site

Site Number: Numeric designation of the site.

Site Name: Up to an eight-character alphanumeric site name.



Figure 10 - Database Maintenance: Rotary Definition (Screen 13) (Includes Interconnect Rotary Definition Screens 1:2 and 2:2)

Screen 1:2 and 2:2 - Interconnect Rotary Definition

Line Selection: Each rotary definition can specify up to 16 telephone lines (numbers) to be used when placing outbound telephone calls. When a telephone call is placed by a radio unit, the telephone equipment searches for a free line by trying each line in the sequence specified in the rotary definition assigned to the group. If a free line is not found, the originating unit hears a busy signal.

The vertical Rotary numbers column shows each telephone line assigned to a rotary definition. The horizontal numbers line across the top of the screen indicates the sequence that particular line will be tried in the rotary sequence. The default is 0.

4) LINE DEFINITION

Line Definition under Database Maintenance main category screen, item "14", describes the outgoing telephone line interconnect parameters for radio units in the group, and their default values. The default values are used when the system is first powered up, and remain in effect until changes are made and saved for each individual system.

When Line Definition is selected, (i.e., function screen number 14), pressing **Return** displays the Interconnect Line Definition Selected Site window. This window contains fields for the Site Number and Site Name. The cursor appears first at the Site Number. Typing in the Site Number displays the Line Parameters screen 1 just below the Selected Site screen.

The Line Parameters screens consists of two sections, listing telephone line parameters for up to 16 telephone lines. Screen 2 is identical to 1 except that it lists telephone line 17 through 32. Each screen consists of two sections containing fields for Line Number, Line Active, Pulse Dial and Dedicated to Unit parameters. There are 16 screens total for 255 lines.

A typical view of the User Menu, the Selected Site and Interconnect Line Definition screens is shown in Figure 11.

Selected Site			
Site Number:	Numeric designation of the site.		
Site Name:	Up to an eight-character alphanumeric site name.		
Screens 1 thru 16 - 1	Line Parameters		
Line Number:	Lists up to 255 individual telephone lines.		
Line Active:	Defines which telephone lines are available for use by individual radio units. Enter \mathbf{Y} for telephone lines that are available, or \mathbf{N} (default) for lines not available.		
Pulse Dial:	Defines the dial characteristics for each telephone line in the group. Enter Y for telephone lines with pulse tone dialing, or N (default) for tone (DTMF) dialing.		
Dedicated To Unit:	Defines the radio unit that the system [rings] for an incoming call on this line. Enter the radio unit Logical ID (LID). (NOTE: You must return and specify a line number under item "11", for any lines dedicated to units!)		



Figure 11 - Database Maintenance: Line Definition Screen (14) (Includes Interconnect Line Definition Screen Pages 1 and 2)

5) TOLL CALL RESTRICTIONS

The Toll Call Restrictions function under the Database Maintenance main category screen, item "15", is used to identify outgoing telephone call restrictions assigned to different levels of radio users. Up to 16 restrictions levels can be set up with this screen.

When Toll Call Restrictions is selected, (i.e., screen number 15), pressing **Return** displays the Interconnect Toll Call Restrictions Selected Site window. This window contains fields for the Site Number and Site Name. The cursor appears first at the Site Number. Typing in the Site Number displays the Toll Call Parameters screen 1:1 just below the Selected Site screen.

A typical view of the User Menu, the Selected Site screen with Toll Call Parameters screen 1:1 is shown in Figure 12.

Selected Site

Site Number:	Numeric designation of the site.
Site Name:	Up to an eight-character alphanumeric site name.

the digits indicated.

Screen 1:1 - Toll Call Parameters

The Toll Call Parameters screen consists of two similar sections. The first section contains line numbers 1 through 8, while the second section contains line numbers 9 through 16. Both sections contain a Digit pattern (for four digits), and Restriction Levels (up to 16 levels) for each line number.

	NOTE	
	An "X" can be used in the Digit Pattern field to represent any digit from 0 through 9.	
Digit Pattern:	Enter the first four digits of the telephone number on which restriction levels are in effect. All unused digit pattern spaces are filled with four periods ().	
Restriction Level:	1: The 16-position restriction level field indicates the toll line restrictions that apply to each radio. The heading of 0 to 15 corresponds to the code assigned to each radio unit allowed to make toll calls. code is assigned in the field under Logical Unit Definition (Item 11).	
	Enter Y in this field under units permitted to make telephone calls with the first four digits indicated under Digits Pattern. Enter N (default) if the radio unit is not to make toll calls to the phone numbers with	



Figure 12 - Database Maintenance: Toll Call Restrictions (Screen 15) (Includes Interconnect Toll Call Restrictions Screen 1:1)

6) ACU PARAMETERS

ACU (Alarm Control Unit) Parameters under Database Maintenance main category, screen "16", displays a list of 32 alarms associated with each site, allowing you to define the parameters for each alarm. The default values are used by the Site Controller when first powered up, and remain in effect until the desired parameter changes are made to the database for each individual system.

When ACU Parameters is selected (item 16), pressing **Return** displays the Alarm Control Unit Definition Selected Site window. This window contains fields for the Site Number and Site Name. Typing in the Site Number displays the ACU Parameters window (1:2) just below the Site Selection window. The second ACU Parameters window (2:2) is displayed by pressing **Next Screen**. The screen numbers appear at the top right of each screen.

The ACU Parameters window consists of two similar sections, the first for ACU's 1-8 (or 17-24), and the second for ACU's 9-16 (or 25-32). Each section contains five data columns. The ACU number is in the first column. The second column contains the Alarm Name field. The third, fourth and fifth columns show the Enabled, Active High and Major fields.

A typical view of the User Menu, the Selected Site and ACU Parameters screens 1:2 and 2:2 is shown in Figure 13.

Selected Site

Site Number:	Numeric designation of the site.	
Site Name:	Up to an eight-character alphanumeric site name.	
Screens 1:2 and 2:2		
ACU No:	The number of the ACU currently highlighted.	
Alarm Name:	Alphanumeric field for entering the Alarm name.	
Enabled:	Designates alarm lines enabled to report alarms. Enter \mathbf{Y} in this column to enable alarm reporting. Enter \mathbf{N} (default) to disable alarm reporting, or for alarms not used.	
Active High:	Designates enabled alarm lines defined as active high alarms, i.e., a low to a high transition indicates alarm condition. Enter \mathbf{Y} next to all enabled alarms designated active high alarms. Enter \mathbf{N} next to all enabled alarms active low (i.e., a high to a low transition indicates an alarm condition).	
Major:	Designates alarms defined as major alarms requiring immediate reporting and logging. Enter \mathbf{Y} in this column next to all enabled alarms defined as major alarms. Enter \mathbf{N} in this column next to all enabled alarms defined as major alarms.	

7) CONSOLE DEFINITION (Full Level Package)

The Console Definition allows you to enter a console ID, this function then automatically assigns LID's and GID's associated with the console ID (SAID's).



Figure 13 - Database Maintenance: ACU Parameters (Screen 16) (Includes Alarm Control Unit Definition Screens 1:2 and 2:2)

2) SITE RECONFIGURATION

There are five functions that correspond to the Site Reconfiguration category, listed as 0) through 4). Each function screen has two windows, a Selected Site and a parameters window. Unlike the other categories, each of the functions can be accessed by pressing the **NEXT SCREEN** or **PREV SCREEN** keys instead of returning to the User Menu first. The screens correspond in the following manner:

20) Channel	$\Leftarrow \Rightarrow$	1:5- Channel Configuration
21) Call Parameters	$\Leftarrow \Rightarrow$	2:5 - Channel Assignment Parameters
22) Test Parameters	$\Leftarrow \Rightarrow$	3:5 - Site Test Parameters
23) Miscellaneous	$\Leftarrow \Rightarrow$	4:5 - Miscellaneous Parameters
24) Relay	$\Leftarrow \Rightarrow$	5:5 - Relay

For example, if you choose 21 from the Main User Menu, the Call Parameters screen is displayed consisting of the Selected Site window and the Channel Assignment window (2:5). If you want to get to the Miscellaneous Parameters screen (number 23), then you can press **NEXT SCREEN** twice and the Miscellaneous Parameters window (4:5) replaces the Channel Assignment Parameters window.

A typical view of the User Menu and the Site Reconfiguration screens 1:5 through 5:5 are shown in Figures 14 and 15.

NOTE

All of the Selected Site windows as well as the function key definitions at the bottom of the Site Reconfiguration screens 1:5 through 5:5 are identical.

At the Site Number prompt in the Selected Site window, type in the site number for which changes are required. You can use the **FIND** and **SELECT** keys to access a listing of sites and devices. The corresponding parameters window appears below the Selected Site window.

When changes have been made in the database, the letter N in the column between the Database window and the Site window must be to a Y, indicating that a changes are ready to transmit. When the **DO** key is pressed, changes are sent to the site and the site is reconfigured accordingly. Notice that the Site window is updated with the current site settings to match the changes made in the Database window and Y is changed back to N.

NOTE

Changes made in the Site Reconfiguration category DO NOT affect the Database setting. After you exit to the Main User Menu and return, you will notice that the parameters in the Database window have returned to their original setting. Also, if a power outage occurs, the site is restored to original Database settings when it is put back in service. Changes to the database must be made under the Database Maintenance category, Site/Device Definition (items 10-17).

0) CHANNEL

The Channel definitions under the Site Reconfiguration category temporarily redefine the default channel configurations for the selected site. Listed below are the field definitions for screen 1:5.

RF:

Designates working channels and control channel. Enter C in one position to designate the control channel. Enter \mathbf{Y} to designate a working channel. Enter \mathbf{N} (default) under all unused channels.

Interconnect:	Designates channels equipped to handle telephone interconnect. Enter \mathbf{Y} under channels that are equipped for telephone interconnect, or \mathbf{N} (default) under unused channels and channels not equipped for interconnect.
Digital Voice:	Designates channels equipped to handle digital voice transmissions. Enter Y under channels equipped to handle digital voice or N (default) under unused channels and channels not so equipped.
Data:	Designates channels are equipped to handle data transmissions from mobile data terminals. Enter \mathbf{Y} under channels equipped to handle data transmissions or \mathbf{N} (default) under unused channels and channels not equipped for data transfers.
Partition 2:	Assigns a set of channels for special assignment to selected radios and groups. Enter \mathbf{Y} for a second partition, or \mathbf{N} (default) for a normal partition.
Allowed CC:	Designates a channel allowed to be a control channel. Enter \mathbf{Y} for control channel capability, or \mathbf{N} (default) if channel cannot be control channel.
Wide Area:	Enter a \mathbf{Y} on the channel configuration to allow the channel to be used in a multisite configuration. This allows a "Wide Area" of coverage. Enter \mathbf{N} to disable Wide Area communication for the channel or an unused channel.
Downlink:	Designates a channel number to be used as a redundant downlink to the Multisite coordinator or console. Channel 26 is always assumed to be the primary downlink (default). Enter \mathbf{Y} to enable. Enter \mathbf{N} for unused and <u>not</u> downlink channels.

1) CALL PARAMETERS

The Call Parameter definitions under the Site Reconfiguration category temporarily redefine the default call parameters for a selected site. Listed below are the field definitions for screen 2:5.

Transmission Conv Limit:	Sets the transmission conversation time limit for transmission trunked Calls. Time is expressed in seconds $(x10)$ with a default setting of 30 (300 seconds or 5 minutes).
Message Conv Limit:	Sets the conversation time limit for message trunked conversations. Time is expressed in seconds $(x10)$ with a default setting of 30 (300 seconds or 5 minutes).
Interconnect Hang Time:	The time between an unkey command and channel drop for telephone interconnect calls in sec- onds. Hang time is expressed in seconds with a default of 30.
Emergency Hang Time:	The time between an unkey command and a channel drop for emergency calls. Hang time is expressed in seconds with a default of 2.
Rotate Assignments:	Enter Y (default) if you want Automatic Working Channel Assignment by the system. Enter N to prevent Automatic Working Channel rotation.
Assign Chan Ascending:	This field sets the order used by the Site Controller to make working channel assignments. Enter \mathbf{Y} (default) to assign channels in ascending order starting at one. Enter \mathbf{N} to assign channels in descending order starting from the highest channel number.



Screens 3:5, 4;5 and 5:5 are shown in Figure 15 on the following page)



Figure 15 - Site Reconfiguration (includes Site Reconfiguration screens 3:5, 4:5 and 5:5)
Recent Call Queue Int:	During times when calls are queued, the queue priority of a call may be increased by one half. The queue priority is incremented if the time between the last call request and current request is less than the recent call queue interval. Interval range is from 0 to 30,000 milliseconds (30 seconds), with a default of 5,000 milliseconds (5 seconds).
Max # Concurrent Intcon:	Sets the maximum number of simultaneous telephone interconnect calls permitted on the site. This field defaults to 2.
Max # Concurrent Indiv:	Sets the maximum number of simultaneous individual calls permitted on the site. This two- digit numeric field defaults to 20.

2) TEST PARAMETERS

The Test Parameter definitions under the Site Reconfiguration category temporarily redefines the default test parameters for the selected site. Listed below are the field definitions for screen 3:5.

Test Unit Enabled:	Enter \mathbf{Y} (default) to enable the Test Unit (TU). Enter \mathbf{N} to disable the TU.
Local Test Unit:	Indicates whether the TU is a local unit or a remote. Enter Y for local test unit, or N for remote.
Background Testcall Interval:	Sets the length of time between background test calls in minutes. The range is from 0 to 1440 (24 hours). The default value is 5. Entering a value of 0 inhibits background test calls.
Power Monitor Unit Enabled:	Enter Y (default) to enable the Power Monitor Unit (PMU). Enter N to disable the PMU.
PMU Power Level:	Sets the Power Monitor Unit (PMU) alarm threshold of the output power level for each transmitter channel. If the power level drops below the specified level, a PMU alarm is issued. Power level alarm threshold can be set from 0 to 255×10 (0 to $2,550$ watts) with a default of 3 (30 watts).

3) MISCELLANEOUS PARAMETERS

The Miscellaneous Parameter definitions under the Site Reconfiguration category temporarily redefine the default miscellaneous parameters for the selected site. Listed below are the field definitions for screen 4:5.

Morse Code ID Intrvl:	The time interval in minutes between transmissions of the Morse Code site identification (ID). The time interval range is from 1 to 30 minutes with a default of 15 minutes.
Scramble Data Call Int:	The system is capable of placing random data calls on working channels to discourage un- authorized monitoring of the system. This field sets the length of time in seconds between data calls. The range is from 0 to 32,767 with a default of 5. A value of zero inhibits this feature.
Activity Dump Threshold:	The number of activity records contained in the Site Controller activity file required before the start of a download (defaults to 1,000). A download dumps the activity file to the System Manager. The threshold range is from 1 to 16,383 records. We recommend a value no lower than 500 for this field.

Assign Nonadjacent Channels: Use alternating channel assignment algorithm to avoid intermodulation. Enter **Y** to enable or **N** (default) to disable.

4) RELAY

The Relay definitions under the Site Reconfiguration category temporarily redefine the default relay settings for a selected site. Listed below are the field definitions for screen 5:5.

Relay Number:

Headings for relay numbers (1 - 8) that follow under Database Configuration and Site Configuration. These numbers correspond to the eight control output relays at the Test and Alarm Unit (TAU). The relays are latching and are used to control customersupplied equipment.

3) DEVICE COMMUNICATION

The Device Communication screen contains three categories. These categories are listed in the Device Communication window as 0) through 2). Each of the three categories has one or more field definition screens.

0) DATABASE UPLOAD

After new records are added or existing records changed, the Database Upload function sends the selected databases from the System Manager to the designated Site Controller.

When one of the Database Upload categories is selected (i.e., item 30) pressing **Return** displays the Database Upload Request screen.

The Database Upload function under the Device Communication category consists of only the Database Upload Request screen. This screen contains three sections; All Sites and Services, Sites Only, and Devices Only.

A typical view of the User Menu and the Database Upload Request screen in shown in Figure 16.

All Sites and Services

Full Logical ID Database:	Enter Y for all Logical ID Database records to be uploaded to the sites and devices. Enter N (default) if you do not want this included in the upload.
Full Group ID Database:	Enter \mathbf{Y} in this field if you want all Group Database records sent to the sites and devices when the upload is performed. Enter \mathbf{N} in this field if you do not want the records included in the upload.
Current Time:	Enter \mathbf{Y} if you want the records to reflect entries to the current time. Enter \mathbf{N} (default) if you do not want these records included.
Logical ID Changes:	Enter \mathbf{Y} if you want to include only the changes in the Logical ID Database since the last upload. Enter \mathbf{N} (default) if you do not want LID changes included.
Group ID Changes:	Enter Y if you want to include only the Group ID Database changes since the last upload. Enter N (default) if you do not want the Group changes included.

Sites Only

Line Database:	Enter \mathbf{Y} in this field if you want Line Database records sent to the site when the upload is performed. Enter \mathbf{N} (default) in this field if you do not want these records included in the upload.
Rotary Database:	Enter \mathbf{Y} in this field if you want Rotary Database records sent to the site when the upload is performed. Enter \mathbf{N} (default) in this field if you do not want the records included in the upload.
Toll Call Database:	Enter \mathbf{Y} in this field if you want Toll Call Restrictions records sent to the site when the upload is performed. Enter \mathbf{N} (default) in this field if you do not want the records included in the upload.
ACU Alarm Masks:	Enter \mathbf{Y} in this field if you want ACU Alarm Mask records sent to the site when the upload is performed. Enter \mathbf{N} (default) in this field if you do not want the records included in the upload.
Site Aliases:	Enter Y in this field if you want the site name instead of the logical ID uploaded. Enter N (default) if you do not want these records included.



Full Group ID Database : N Group ID Changes Current Time : N Sites Only Line Database : N	ŧ	ł
Current Time : N Sites Only Line Database : N		
Sites Only Line Database : N		
tine Database : N		
Rotary Database : N		
Toll Call Database : N		
ACU Alarm Maske : N		



Figure 16 - Device Communication: Database Upload: (Screen 30) (Includes the Database Upload Request Screen)

1) ACTIVITY DOWNLOAD

The Activity Download function displays the Activity Download Request window for downloading individual site activity records to the System Manager from individual sites.

This window contains fields for the Site Number and Site Name. You can use the **Find** and **Select** keys to obtain site information. Pressing **Return** toggles between the Site Number and Site Name fields. Pressing the **Do** key requests the download.

A typical view of the User Menu and the Activity Download Request window is shown in Figure 17.

EDACS System Mar	nager V2.05	Üser Menu	{ SMGTGT]	EGESYSMGR
Selected Menu 1 Enter Menu I	Item tem : 31			
Menu Selections Main Categor: 1) Database 2) Site Reco 3) Device C 4) Alarm Cos 5) Radio Cos 6) Reports 7) System Ma	Maintenance Maintenance onfiguration momunication htrol htrol aintenance	Device (0) Dat: 1) Act 2) Site	Communication	
(F7 = Exit from (Select = Submit	System Manager) Current Menu Ite DACS System Manager Selected Site	(F10 = Clear Menu 1 m) Pres Activity Download Rec	Item) SS Return guest (SMGTGT) EGE	:SYSMOR
	are number : 3	51	LE MANE I ANDIVLAD	

(P6 = Exit) {F10 = Clear Record) {F1} = Next Record} (F14 = Toggle Search Key) (D0 = Request Download) (Find = Site List) Alarm reported by Site

Figure 17 - Device Communication: Activity Download (Screen 31) (Includes Activity Download Request Window)

2) SITE MONITOR

The Monitor Activity function displays the status and activity of all channels at a site. This monitor display is <u>continuously</u> updated by the Site Controller. Pressing the **Return** key after selecting the User Menu (function 32) displays the Selected Site screen. Typing in the site number connects you to the Channel Monitor screen.

You can abort the connection attempt by pressing function key **F8** if the channels are busy, and the delay in connecting to the site is too long. **F8** also disconnects an existing connection.

A typical view of the User Menu, Selected Site and the Site Monitor screen is shown in Figure 18.

Channel Monitor

Chan:	The channel number column.
Status:	This column shows the last reported status of the channel. (Busy, Free or Fail)
Time:	The time the call occurred.
Caller:	The originating LID column.
Callee:	The designation LID or GID column.
Channel Activity:	A brief description of channel activity. Group Call, Individual Call, GETC CommError, etc)



(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)

EDACS	Svetem	Mananer	Sil	te Monitor	(SMGTGT1 BGESYSMGE	
Sele	cted Sit	e	4 1.		()	
si	te Numbe	 		Site N	ame : MSDS 4	
_r Chan	nel Moni	itor			2-APR-1993 17:01:5	55
CHAN	STATUS	TIME	CALLER	CALLER	CHANNEL ACTIVITY CH	AN
1	FAIL	10:35	12405 MPD VG05	289-ENGR 6	DROP WITH CAPRIER	3
2	OFF	00:00	D.	۵۰		2
3	FREE	16:44	16383 SYSTEM	16383 SYSTEM		э
4	BUSY	15:07	0.	0.	CONTROL CHANNEL 4	4
5	OPF	00:00	D.	0.		5
6	OFF	00:00	D.	٥٠		6
7	OFF	00:00	0.	0.		7
8	OFF	00:00	D.	0.	1	8
9	OFF	00:00	۵·	Q ·		9
10	OFF	00:00	D.	0.	10	Ô
11	OFF	00:00	D-	0.	11	ı
12	OFF	00:00	0.	a.	11	2
13	OFF	00:00	0.	0.	1:	з
14	OFF	00:00	0.	0.	14	4
15	OFF	00:00	0.	0.	1	5

Press Return

(F6 = Exit) (F8 = Stop Connect Attempt) (Find = Site List)

Figure 18 - Device Communication: Site Monitor (Screen 32)

4) ALARM CONTROL

The Alarm Control screen contains two categories. These categories are listed in the Alarm Control window as 0 and 1. Each of these categories has one or more field definition screens. The first field definition screen (Selected Site) is accessed by pressing the **Return** key.

0) ALARM CONTROL DISPLAY

The Alarm Control screen allows you to tell the system how to report alarms associated with each channel. For each selected site use the function keys, defined at the bottom of the Alarm Display and Acknowledge screen, to enable, disable or acknowledge alarms. Alarms are enabled for notification of the current user, or are disabled from notifying the user. Notification occurs when the alarm changes from the dot to the bold, blinking diamond.

The Alarm Display is also used to monitor the alarm states of the selected site. The various alarm conditions are described graphically using a combination of different characters and different display attributes. Table 1 shows the various alarm states.

CHARACTER	ATTRIBUTES	MEANING
Space	Normal	No alarm, disabled for notification
Centered dot	Normal	No alarm, enabled for notification
Diamond	Normal	Alarm, acknowledged, disabled
Diamond	Normal, blinking	Alarm, unacknowledged, disabled
Diamond	Bold	Alarm, acknowledged, enabled
Diamond	Bold, blinking	Alarm, unacknowledged, enabled

Table 1 - Alarm States

The diamond indicates an alarm, bold indicates an enabled state, and blinking indicates an unacknowledged state.

NOTE

The alarm display updates at 10-second intervals if nothing is typed. The cursor returns to the site number field after updating.

Use the cursor (arrow) keys to move to the different fields. Press **F13** to acknowledge all alarms. Press the **INSERT** key to enable an alarm for notification and the **REMOVE** key to disable an alarm for notification. Pressing the **Do** key activates the changes and saves the record of active alarms.

A typical view of the User Menu, Alarm Display and Acknowledge and the Selected Site and Current Alarms screens are shown in Figure 19.



Figure 19 - Alarm Control: Alarm Control Display (Screen 40) (Includes Alarm Display and Acknowledge screen)

1) RELAY TRIGGER DEFINITIONS

The Define Relay Triggers function (Alarm Activated Relays screen) allows you to specify combinations of alarm occurrences that trigger the alarm relay. Each relay combination defined on this screen must have a relay connected to the proper alarm class.

Enter the relay number (1-8) in the Relay Number field. This identifies the relay triggered by the specified alarm. The relay number corresponds to the control output relays at the Test and Alarm Unit (TAU).

Press the TAB key or right cursor (arrow) key and enter the desired site number.

The "Normal State off (Y/N)" field indicates the normal state of the relay. Enter Yes if the normal relay state is deenergized. A No in this field causes the relay to energize in the normal state.

The "Reset if Alarm clears (Y/N)" field allows you to specify alarm reset inhibit. Entering a Yes allows the alarm to reset when the cause is removed. Entering No latches the alarm state even after removing the cause of the alarm.

In the Input and Output Sites field, indicate sites (1-32) that are to receive relay outputs. Relay outputs are sent to the site when the alarm trigger occurs. This allows controlling relays at any site by alarms occurring at other sites.

Press **NEXT SCREEN** to enter the Relay Trigger Definition screen. This screen allows you to indicate combinations needed to trigger the relay for each of the alarm classes. Table 2 provides a list of active alarm classes (0-15) and Figure 20 is a typical view of the User Menu and Alarm Activated Relays screens.

Entries for the Alarm Triggers can be N (No), 1 (one), or 0 (zero).

- N This alarm does not cause the relay to set.
- 1 Performs a logical AND on alarms in the same class. All alarms marked with a 1 must be set before the alarm is re ported.
- 0 Performs a logical OR on alarms in the same class. This alarm cause relay set, regardless of other alarm states. It is permissible to have both 1 and 0 triggers in the same class. Any or all of the alarm classes can specify triggers.

After entering the Alarm Triggers for a class, connect the relay by entering either a **Y** or **N** in the Connect field. Entering a Yes connects the relay with the indicated site. Enter a No if not connecting the relay to the site. Press the **DO** key to save the displayed record. Alarm classes are logically OR'ed together, i.e. if you have a class with a logical AND and another class with a logical OR the output of those two classes are OR'ed together. If you have multiple input sites they are also OR'ed together.

ALARM CLASS	DEFINITION	TRIGGER MEANING
0 - Not Used		
1 - Poller Alarm	Alarms issued by the poller for each channel.	0 - Not used, always set to N.11 - Alarm for channel 1.2 - Alarm for channel 2.
2 - TU Alarm	Alarms issued by the Test Unit for each channel.	3 - Alarm for channel 3.
7 - Carrier Alarm	Alarms issued by the GETC for an unexpected carrier on a channel.	• 26 - Alarm for channel 26. 27-31 - Not used, always set to N.
11 - Phone Line Alarm	On voted systems, the GETC signals a failure on the phone line.	Note: The Site Controller is designed to handle 25 channels and one downlink channel.
3 - ACU Alarm	Alarm issued by user supplied equipment connect to the ACU. User equipment can be connected to any of the 32-position alarm inputs.	ACU alarms are for both major and minor alarm types. The 32 fields represent the 32 alarm leads on the ACU.
5 - PMU Alarm	Alarms issued by the Power Monitor Unit for each channel.	0 - not used, always set to N. 1 thru 20 - PMU alarms for channels 1 thru 20 only.
		21 and 22 - Antennas 1 and 2 alarms.23 thru 31 - Not used, always set to N.
6 - RIC Alarm	Alarms issued by the Repeater	0 - not used, always set to N.
	Interconnect Controller for each channel.	1 thru 20 - RIC alarms for channels 1 thru 20 only.
		21 thru 31 - Not used, always set to N

Table 2 - Alarm Class Definition



(F7 = Exit from System Manager) (F10 = Clear Menu Item)
(Select = Submit Current Menu Item)



Press Return

Relay Number : 1 Site # : 5 Normal State off (Y/N) : Y Reset if Alarm clears (Y/N) : Y 12345678901234567890123456789012 Input Sites NNNNYNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	DACS System Manager - J	larm Activated Relays		[}	SMG	rot j	EGESYS
Normal State off (Y/N) : Y Reset if Alarm clears (Y/N) : Y 12345678901234567890123456789012 Input Sites NNNNKYNNEENNNEENNNEENNNEENNNEENN Output Sites NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	Relay Number	: 1	Site	#	:	5	
Reset if Alarm clears (Y/N) : Y 12345678901234567890123456789012 Input Sites NNNNKYNNKKNNNKKNNNKKNNNKKNN Output Sites NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	Normal State off (Y/N)	: Y					
12345678901234567890123456789012 Input Sites NNNNKYNNKNNNNNNNNNNNNNNNNNNN Output Sites NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	Reset if Alarm clears	(Y/N) : Y					
Input Sites NNNNKYNNKNNNNKNNNNKNNNNKNNNKKN Output Sites NNNNNNNYNNNNNNNNNNNNNNNNNNNNN		123456789012345678901234567890	12				
Output Sites NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	Input Sites	NNNNNYNNKNNNNKNNNKKNNNKKNNNK	INN				
	Output Sites	NNNNNNNYNNNNNNNNNNNNNNNNNN	NN				
	Input Sites Output Sites	xinnixyinikinnikinnikinnikinnikinnik nninninyinnikinnik	INN INN				
		Alarm Triggers (N=NO, 1=AND, 0=09	e) –				
Alarm Trìggers(N=NO,1=AND,0=DR)	Alarm Class	012345678901234567890123456789	01			Con	nect
Alarm Triggers{N=N0,1=AND,0=OR; Alarm Class 01234567890123456789012345678901 Connect							

Class 1 Poll	NNONONNNNNNNNNNNNNNNNNNNNNNNNNNNN	х
Class 2 TU	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	N
Class 3 ACO	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	N
Class 4 RF/IF	nnynnnnnnnnnnnnnnnnnnnnnnnn	N

 $(F6 = Rxit) \quad (P8 = Delete Record) \quad (F10 = Clear Record) \quad (F11 = Next Record) \\ (D0 = Save Record) \quad (P4 = Position to Relay Field)$

Figure 20 - Alarm Control: Relay Trigger Definitions (Screen 41)

5) RADIO CONTROL

There are four categories shown in the Radio Control screen. These categories are listed in the Radio Control window as 0 through 3. Each of these categories has one or more field definition screens. The Selection window is displayed by pressing the Return key.

0) UNIT ENABLE/DISABLE

The System Manager has the ability to disable radio units remotely. This feature is used if a radio unit is stolen, or if a radio is disrupting communications on the system. The System Manager can also enable a previously disabled radio.

When the Unit Enable/Disable function is selected, (i.e., function 50), pressing **Return** displays the Selected Unit window of the Unit State Enable/Disable Screen.

A typical example of the User Menu, Radio Control and Unit State Enable/Disable screens is shown in Figure 21.

Selected Unit

Unit Number:	A number (1 to 16383) that is associated with each radio unit in the system (the Logical ID).
Physical ID:	A unique number (0-999999999) that identifies the radio unit. This is a 9-digit field.
Unit Type:	A description of the unit (mobile, portable, console, etc.). Press Select for types of units.
Unit Name:	A unique eight-character alphanumeric name that identifies the radio.
Serial Number:	A unique 16-character alphanumeric field listing the serial number of the radio unit.
Asset Number:	A unique 16-character alphanumeric asset identification number.

Current State

Entering a Logical ID in the Unit Number field displays the Current State screen. A typical example of the User Menu, Radio Control and Unit State Enable/Disable screens is shown in Figure 21.

Current State: Displays the current operating state (enabled/disabled) of the radio.

Desired State: To change the operating state, enter the desired state and press F7 to Enable the radio, or F12 to Disable. This state change is sent to all sites.

Remotely Disabling A Radio

Radio Units can be temporarily disabled through the System Manager to prevent their unauthorized use. For the disable command to be effective, the radio unit must be operational and within range of the site.

To disable a radio: Press **F12** to submit the request to the Site Controller. The Site Controller will attempt to disable the radio unit. If the disable is successful, a confirmation message will be displayed.



(F6 = Exit) (F10 = Clear Record) (Find = Find Unit) (F7 = Enable) (F12 = Disable) (F8 = Cancel)

Figure 21 - Radio Control: Unit Enable/Disable (Screen 50)

Remotely Enabling A Radio

Radio Units that have been temporarily disabled can be enabled for operation using the System Manager. For the enable command to be effective, the radio unit must be operational and within range of the site.

To enable aPress F7 to submit the request to the Site Controller. The Site Controller will attempt to enable the radioradio:unit. If the enable is successful, a confirmation message will be displayed.

Canceling A Remote Enable/Disable Command

You can cancel an enable or disable command through the System Manager. For the cancel command to be effective, the previous command must not have affected the radio.

To cancel an
enable/disable:Press F8 to submit the Cancel request to the Site Controller. If the Cancel command is successful, a con-
firmation message will be displayed.

1) DYNAMIC REGROUP (Full Level Package)

The Dynamic Regroup function under Radio Control on the main category screen, item "51", enables a System Manager operator to program up to 8 new talk groups into a radio over the air.

When the Dynamic Regroup function is selected, (function 51), pressing **Return** displays the Dynamic Regroup screen (See Figure 22). The cursor first appears in the Selected Unit section of the screen. Entering a unit number causes the unit name to appear and moves the entry cursor to the Group Number field. The operator proceeds to regroup the unit by making entries in the Forced and Captive fields and then pressing **DO**. Field names and descriptions are given below.

Unit Number:	The Unit ID, or Logical ID, of the radio to Regroup. The Unit ID entered here is validated against the Logical Database, disallowing the entry of Unit IDs which are not in the system. The cursor cannot leave this field (except to leave the screen) unless a valid Unit ID has been entered or it is left blank. When a Unit ID is accepted, the Unit Name associated with it is displayed in the Unit Name field.
Unit Name:	The Unit Name of the radio to Regroup. Like the Unit ID, the Unit Name is validated against the Logical Database. The cursor cannot leave this field (except to leave the screen) unless a valid Unit Name has been entered or it is left blank. When a Unit Name is accepted, the Unit ID associated with it is displayed in the Unit ID field.
Group Number:	The Group ID of the talk group to program into the radio. The Group ID entered here is validated against the Group Database, disallowing the entry of Group IDs not defined for the system. If a setting is not to be Regrouped, the Group Number field should be left blank. The cursor cannot leave this field (except to leave the screen) unless a valid Group ID has been entered or it is left blank. For a valid Group ID, the Group Name associated with it is displayed in a message in the general message area at the bottom of the screen when the cursor is positioned in the field. Group IDs entered here do not have to have been programmed into the radio via the PC Programmer.
Forced:	When Group IDs entered on this screen are fully programmed into the radio, the radio can be "forced" (changed) to one of the new groups. A " Y " in this field sets the Group ID the radio is "forced" to enter when Regrouped. If none of the Regroup Group IDs are tagged "forced" in this fashion, the radio's current group setting is left as it is and a hardware switch is activated by the radio operator to reqroup. Since it does not make sense for more than one Group ID to be forced, the screen enforces this rule by allowing only one Y in the forced column. If a Group ID is already forced (set " Y ") and attempt is made to force a second group, the original forced setting is deleted (set to " N ").



(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)

EDACS System Manager



[SMGTGT] DOCWRITER

oup Sett	ings			
Group	Group			
Set	Number	Forced	Captive	Current Radio Status
1	05	N	N	Not Regrouped
2		N	N	Not Regrouped
3		N	N	Not Regrouped
4		N	N	Not Regrouped
5		N	ы	Not Regrouped
6		N	N	Not Regrouped
7		N	N	Not Regrouped
8		N	N	Not Regrouped
7 8		N N	N N	Not Regrouped Not Regrouped

Dynamic Regroup

Enter a group ID (D - 2047) for this group set.

Figure 22 - Dynamic Regroup (Screen 51)

Captive:	This field is used in conjunction with the forced field. If it is desired that the radio being Regrouped not be allowed to switch away from a forced group, set this field to " Y ". If this field is " N ", the corresponding forced Group ID (if any) may be deselected by the radio operator. Since a Group ID can only be captive if it is forced, the screen enforces this rule. If a nonforced Group ID is selected as Captive, the forced field is set to " Y " and any other forced field is reset to " N ".
Current Radio Status:	This field is not a data entry field, but is used to display radio Regroup status information. Valid radio states are: Not Regrouped, Regrouped, Regroup Pending, and Cancel Pending. When a radio is Regrouped or an existing Regroup is canceled, the radio acknowledges the completed action. A "Pending" status indicates that radio acknowledgment has not been received. A "Regrouped" or "Not Regrouped" status indicates that this action has been acknowledged by the radio and was successful.
Function Keys:	
F6	Exits the screen and returns to the Main Menu of the System Manager.
F8	A fully Regrouped radio can be returned to its normal (not Regrouped) state by pressing this key. If any statuses are still pending, this key has no effect. A radio must be fully Regrouped or not Regrouped before it can be canceled. Canceling an unRegrouped radio doesn't really make sense, but it has no effect so it is allowed.
Do	A fully unRegrouped radio may be Regrouped with the Group IDs on the screen by pressing this key. If any statuses are still pending, this key has no effect. A radio must be fully Regrouped or not Regrouped before it can be canceled. A radio with Regroup settings already in it may be Regrouped again; the old Regroup settings are merely overwritten with the new ones.
F10	This key clears a data entry field to all blanks. It is provided as a convenience to the operator, saving the operator from excessive delete use.

2) MULTISITE UNIT LOCATION (Full Level Package)

The Multisite Unit Location screen under Radio Control on the main category screen, item "52", displays the site and group location of any radio unit in a multisite coordinator. This screen is only used with multisite networks.

When the Multisite Unit Location function is selected, (function 52), pressing Return displays the Unit Location Display screen (See Figure 23). The cursor first appears in the Selected MSC section of the screen. The operator enters in secession, MSC number and Unit Number being located. The System Manager fills the remaining informational fields in the MSC and Selected Unit sections of the screen and finds and displays the unit's latest Site and Group. Field names and descriptions are given below.

The unit location function allows a system manager operator to find out what the current location (current site and current group) a radio unit s logged into from a Multisite coordinator.

Field Descriptions (Selected MSC)

- MSC Number: The MSC number entered is for the multisite coordiniator that contains the units to be tracked. The MSC number is validated against the external device database. The user can type in the MSC number or use the Find key to select the MSC of interest. After you type in the MSC number, hit carriage return to enter the MSC number and move the cursor to the unit number field. The range of the MSC number is between 32 to 64.
- MSC Name: The MSC name field is automatically entered from the external device database. The user cannot make inputs in this field. This field is for display purposes only.

Field Descriptions (Selected Unit)

Any field in the Selected Unit section of the display can be used to activate the Unit Location function. The F14 key moves the cursor between fields.

Unit Number: The Unit number, or Logical id, entered is for the radio to be tracked (or located). The range of valid unit numbers is between 0 and 16383 (inclusive). To invoke the unit location function, the user types in the unit number and hits carriage return.
 Physical Id: A unique number (0999999999) that identifies the radio unit. This is a 9 digit field. This field can be entered if the cursor is presently in the Selected Unit section of the display by using the F14 key to position the entry cursor. To invoke the unit location function, the user types in the physical ID number and presses carriage return.
 Unit Type: A description of the unit (mobile, portable, desktop). The user can press Find and Select for a list of valid unit types. The user can activate the function by an entry in this field if the cursor is in the Selected Unit section of the unit location screen by using the F14 key to position the entry cursor. To invoke the Unit Location function, the user types in the unit location function, the user types and then presses carriage return.

Field Descriptions (Selected Unit)

Unit Name: A unique eight-character alphanumeric name identifying the radio. The user can enter this field if the cursor is in the Selected Unit section of the unit location screen by using the F14 key. To invoke the unit location function, the user types the unit name in the field and presses carriage return.

EDACS System Manager V3.00	User Menu	[SMGTGT] DOCWRITER
Selected Menu Item Enter Menu Item : 52		
Menu Selections Main Categories 1) Database Maintenance 2) Site Reconfiguration 3) Device Communication 4) Alarm Control 5, Radio Control 6) Reports 7) System Maintenance	Radi. 0) 1) 2) 3)	o Control Jnit Enable / Disable Dynamic Regroup Multisite Unit Location Multisite Group Location

```
(F7 = Exit from System Manager) (F10 = Clear Menu Item)
(Select = Submit Current Menu Item)
```



EDACS System Manager Unit Location Display [SMGTGT] DOCWRITER Selected MSC MSC Number : 33 MSC Name : MSC2-E

Selected Unit Unit Number : 15 Physical Id : 15 Unit Type : PORTABLE

Unit Name : PST UNT1 Serial Number : 15 Asset Number : 15

Current Location Located on site : / Active in group : / MSC could not find the location of the unit

```
(F6 = Exit) (F8 = Cancel Request) (F10 = Clear Record) (F11 = Next Record)
(F14 = Toggle Search Key) (Find = Find Unit)
Obtaining location from MSC; press F8 to cancel...
```

Figure 23 - Multisite Unit Location (Screen 52)

Serial Number:	A unique 16-character alphanumeric serial identification number. The user can enter this field if the cur- sor is in the Selected Unit section of the unit location screen by using the F14 key. To invoke the unit lo- cation function, the user types in the serial number in the field and presses carriage return.
Asset Number:	A unique 16-character alphanumeric asset identification number. The user can enter this field if the cur- sor is in the Selected Unit section of the unit location screen by using the F14 key. To invoke the unit lo- cation function, the user types in the asset number in the field and presses carriage return.
Field Descriptions	(Current Location)
Located on site:	Field showing the radio unit's current logged site. This field is updated every 5 seconds to track the current logged site location for the radio unit.
Active in group:	Field used to indicate the latest group that the radio unit used to talk. This field is updated every 5 seconds to track the groups used when the radio unit talks.
Function Keys:	
F6	Exits the screen and returns to the main menu of the System Manager.
F8	Cancel a current unit location request session. After a user has made a unit location request, the screen is updated every 5 seconds with the current unit location.
F10	Used to clear the current unit record on the screen.
F11	Used to get the next radio ID and do a unit location on that radio.
F14	Used to toggle the search key for the logical database if the cursor is in the Selected Unit section of the unit location screen.
Find	Used to find an MSC site ID if the user is in the Selected MSC portion of the screen. If the user is in the Selected Unit portion of the screen, it is used to select the current unit.

3) MULTISITE GROUP LOCATION (Full Level Package)

The Multisite Group Location screen under Radio Control on the main category screen, item "53", displays the number and name of sites and the count of units in those sites in a multisite coordinator. This screen is only used with multisite networks.

When the Multisite Group Location function is selected, (function 53), pressing **Return** displays the Group Location Display screen (See Figure 24). The cursor first appears in the Selected MSC section of the screen. The operator enters in secession, MSC number and Group ID. The System Manager fills the remaining informational fields in the MSC and Selected Group sections of the screen and finds and displays the Site Names and Unit counts for the selected Group. Field names and descriptions are given below.

EDACS System Manager V3.00	User Menu	(SMGTGT) DOCWRITER
Selected Menu Item Enter Menu Item : 53		
Menu Selections Main Categories 1) Database Maintenance 2) Site Reconfiguration 3) Device Communication 4) Alarm Control 5) Padic Control 6) Reports 7) System Maintenance	Radio Con O) Unit 1) Dynam 2) Multi 3) Multi	trol Enable / Disable ic Regroup site Unit Location site Group Location

(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)



```
EDACS System Manager
                        Group Location Display
                                                        [SMGTGT] DOCWRITER
rSelected MSC-
  MSC Number : 33
                                            MSC Name : MSC2-B
Selected Group-
                                                Group Name : GENET G5
   Group Id : 5
                              / 5
   A/F/S : 0
                         0
                                                Group Type : SUBFLEET
                     1
            : (********/
                              /GENET G5)
Current Location-
 Site / Name Count Site / Name Count Site / Name Count Site / Name Count
                   9/LABGNET
  1/TESTER
  2/RATTEST
                   10/PREALPHA
  3/RADIOLAB
                                      20/TESTSITE
  4/LAWSITE
  5/MSDS 3
                    13/SCATBLAB
                                      21/ASDF
                                                        29/ZHOU
  6/MSDS 4
  7/GETC1E
                    15/TEST3
                                                        31/DONTKNOW
                                                        32/NIMAGAIN
                    16/PSTCIC
  8/TEST2
```

(F6 = Exit) (F8 = Cancel Request) (F10 = Clear Record) (F11 = Next Record)
(F14 = Toggle Search Key) (Find = Find Group)
Obtaining location from MSC; press F8 to cancel...

Figure 24 - Multisite Group Location (Screen 53)

Field Descriptions (Selected MSC)

Msc Number:	The MSC number is entered for the multisite coordinator that the system manager is interrogating. The
	use the Find and Select keys to select the MSC that is desired for the Group Location function. After you ture in the number bit corriges raturn and the artry curser mayor down to the Group ID number field.
	The range of the MSC number is between 32 and 64.
MCC Norman	The MCC name field is the name of the MCC from the outernal device detahese. The entry is made oute

The MSC name field is the name of the MSC from the external device database. The entry is made auto-MSC Name: matically following Group ID input. This field is for display purposes only and not operator entries.

Field Descriptions (Selected Group)

Any field in the Selected Group section of the display can be used to activate the Group Location function. The F14 key moves the cursor between fields.

- Group Number: The group identity that the user requires for display of Sites and Unit counts. To invoke the group location function, the user types in the group identity and presses carriage return. The range of the group number is between 0 and 2047 (inclusive).
- A/F/S: A set of three fields (one for agency number, one for fleet number and one for subfleet number). The user can activate the function by an entry in this field if the entry cursor is in the Selected Group section of the group location screen by using the F14 key to position the entry cursor. To invoke the group location function, the user types in the A/F/S numbers and hits carriage return.
- Group Name: A unique eight-character alphanumeric name that identifies the group. The user can activate the function by an entry in this field if the entry cursor is in the Selected Group section of the Group Location screen by using the F14 key to position the entry cursor. To invoke the group location function, the user types in the Group Name and presses carriage return.
- Group Type: A unique eight-character alphanumeric description of the group type, such as Agency, Fleet, Subfleet, Patch, Simulselect, Other. The user can activate the function by an entry in this field if the entry cursor is in the Selected Group section of the Group Location screen by using the F14 key to position the entry cursor. To invoke the Group Location function, the user types in the Group Type or uses the Find and Select keys to enter a valid Type and hits carriage return.

Field Descriptions (Current Location)

Site/Name:	The number and the name of the site that has an active group. The site number and name are highlighted when the group is active on that site.
Count:	The number of radios in the group on the site. This column is to the right of the Site/Name.
Function Keys	
F6	Exits the screen and returns to the main menu of the System Manager.
F8	Cancel a current Group Location request session. After a user has initiated a Group Location request, the screen is updated every 5 seconds with the current group information.
F10	Used to clear the current group record on the screen.

F11 Used to get the next group ID and do a Group Location on that group.

F14 Used to toggle the cursor between entry fields while the user is in the Selected Group portion of the Group Location screen.

6) REPORTS

There are ten categories shown in the Reports screen. These categories are listed in the Reports window as 0) through 9). Each of these categories, if present, have one or more field definition screens. The definition screen for each category is accessed by pressing the Return key.

When the parameters for a report generation have been entered, pressing the **Do** key causes the report to be generated. When the generation is complete, a message is displayed in the status line of the screen.

0) DEVICE REPORT

The Device Report consists of a Site/Device Report Menu screen that provides information about devices identified in the System Manager database. The screen contains two windows, a Device Select and a Report Contents Menu window. Press **Re-turn** from User Menu, item 60, to display the Site/Device Report Menu screen.

The Site/Device Report Menu screen consists of three windows; a window with three fields which allows you to select the type of report as follows: BY NAME, ALL SITES, or OTHERS. The screen also includes a Device Select Menu window and a Report Contents window.

The Device Select Menu window will change for each type of report selected. Use the cursor (arrow) keys or the Tab key to change fields or windows.

A typical example of the Reports/Device Report Menu with all of the different reports Contents windows is shown in Figure 25.

Select Menu

The Select Menu default is ALL SITES.

1) LOGICAL UNIT

The Logical Unit report allows you to print reports containing information about selected radio units identified in the System Manager database. Pressing **Return** from User Menu item 61, displays the Logical Report Menu.

The Logical Report Menu screen consists of two main windows; a Quick Select Menu window and a Quick Sort Menu window. You can use the cursor or Tab keys to select the information fields to enter the information determining the parameters of the report, and the manner in which this information is presented (Sorted). Definitions for the two windows are listed below.

A typical example of the Reports/Logical Unit Menu with all of the different reports Contents windows is shown in Figure 26.

Find Used to find an MSC site ID if the user is in the Selected MSC portion of the screen. If the user is in the Selected Group portion of the screen, it is used to select the current group.

Quick Select Menu

Range Definition:	Allows you to define the range of Units, Unit IDs, Home Groups, etc., listed below.
Unit Name:	An eight-character, alphanumeric field for the unit range included in the report. The default for this field is spaces.
Unit ID:	Specifies the Unit ID number (0-16383) for the unit range included in the report. The default for this field is 0 to 16383. This field is required when this is the Sort Key (Unit).
Home Group:	Specifies the group ID (0-2047) for the group range included in the report. This field is required when this is the Sort Key (Group). The default for this field is 0 to 2047.
Unit Type:	A list of the different type radio units that can be selected (tagged) for a report. You can tag Mbl (mobile units), Port (potables) or any of the unit types that are listed by selecting the desired unit type with the Select function key.
Department:	Enter the alphanumeric Department select range in these two fields. Enter the starting Department name associated with the radio units in the first field. Enter the end Department name in the indented field.
Asset #:	Enter the alphanumeric start Asset Number in the first field. Enter the end Asset Number in the indented field.
Comment:	A 32-character comment field that allows you to define the select range end.
Quick Sort Menu	



Figure 25 - Reports: Device Reports (Screen 60) (Includes Site/Device Report Menu)



Messages (F6=Exit)(F10=Re-enter Defaults)(D0=Generate Report)

Default Sort : Unit Id.

Use "Select" to choose the FULL report format.

Figure 26 - Reports: Logical Unit (Screen 61)

The Quick Sort Menu window allows you to control the selection and priority of sort keys. This window consists of two columns: Sort and Priority.

The Sort column allows you to select sort keys, and the Priority column displays the sort key priority. For example, if your first choice is to sort the report by Unit Name, (for example, if your first choice is to sort the report by Unit Name), enter a **Y** in the Unit Name column first. A "1" will appear in the Priority column for Unit Name. If your second choice is by Agency Name, enter a **Y** in the Agency Name column. A "2" will appear in the Priority column for Agency Name.

Unit Name:	Entering Y in this field sorts the report alphanumerically by unit name.
Unit Id:	A Y in this field sorts the report by Unit Id number.
Agency Name:	A Y in this field sorts the report by agency name.
Serial #:	A Y in this field sorts by Serial number.
Home Group:	Entering a Y in this field sorts the report by the name of the home groups.
Unit Type:	A Y in this field sorts the report by unit type.
Asset #:	A Y in this field sorts the report by the unique asset number of the radio units.
Department:	A \mathbf{Y} in this field sorts the report by the Department name associated with the radio unit.

Default Sort Unit Id: If no sort method is selected (i.e., no "Y"s in Sort column), the report is sorted by unit Id number.

2) GROUP

The Group report allows you to print reports containing information about selected groups in the System Manager database. Pressing **Return** from Main Menu item 62, displays the Group Report Menu.

The Group Report Menu screen consists of two main windows; a Quick Select Menu window and a Quick Sort Menu window. You can use the cursor or Tab keys to select the information fields to enter the information determining the parameters of the report, and the manner in which this information is presented (Sorted).

Definitions for the two windows are listed below. A typical example of the Reports/Group Report Menu with all of the different reports Contents windows is shown in Figure 27.

Quick Select Menu

Group Id:	Enter the alphanumeric range of Group Id numbers to be included in the report. Default range is 0 to 2047.
Group Name:	Enter the range of group names (alphanumeric field) for the group range included to be included in the report.
Group Type:	Enter the type of groups to be included in the report: All (all groups), Agn (Agencies), Fleet, or Subfl (Subfleets). The default for this field is All (all groups). Use the Select function key to select the type groups to be printed in the report.
Division:	Enter the range of alphanumeric Division names to be included in the report.

Quick Sort Menu

The Quick Sort Menu window allows you to control the selection and priority of sort keys. This window consists of two columns: Sort and Priority.

The Sort column allows you to select the sort keys, and the Priority column displays the sort key priority. For example, if your first choice is to sort the report by Group Name, enter a \mathbf{Y} in the Group Name column. A "1" appears in the Priority column for Group Name. If your second choice is to sort by Agency Name, enter a \mathbf{Y} in the Agency Name column. A "2" appears in the Priority column for Agency Name.



Messages (F6=Exit)(F10 - Re-enter Defaults)(D0 = Generate Report) Use "Select" to choose the BRIEF report format.

Figure 27 - Reports: Group (Screen 62) (Includes Group Report Menu)

The default for the Sort column in N, and the default for the Priority column is 0.

- Group Id: Enter Y in this column to sort by Group Identification number.
- Group Name: Enter Y in this column to sort by alphanumeric group name.
- Agency Name: Enter Y in this column to sort by alphanumeric Agency name.
- Group Type: Enter **Y** in this column to sort by Group Type.
- Division: Enter **Y** in this column to sort by Division names.

3) ACTIVITY DETAIL

The Activity Detail Report function generates a report that includes a detailed description of all calls made at a site during a certain time period. Pressing **RETURN** from the Main Menu item 63, displays the Activity Details Report screen.

The ending time displayed on the screen is the time of the entry into the screen, and is not the end time of the data contained on the System Manager for the site selected. Therefore, when doing activity reports with a time range in the same day as today, you should do an activity download on the site and then wait for the download to complete. Once the download completes, you can submit the activity report.

The Activity Details Report screen consists of two main windows; a Select Criteria window and a Sort Criteria window. You can use the cursor or Tab keys to select the information fields to enter the information determining the parameters of the report, and the manner in which this information is presented (Sorted). Definitions for the two windows are listed below.

A typical view of the User Menu and Activity Detail Report screen is shown in Figure 34.

Select Criteria

- Call Types: Enter the call types to include in the report: All (all call types), Indv (Individual Calls) information, Spcl (Special Calls) information, Emer (Emergency Call) information, Grp (Group) information, Sys (System Call) information, or Data (Data Call) information. The default for this field is All (all calls). Highlight the call type and press the **SELECT** function key to select the call types. More than one call type may be selected, select All to clear other selections.
- Caller Lid: Enter the range of Caller logical IDs (0-16383) to be included in the report. The default setting is 1 to 16382.
- Callee Lid: Enter the range of Callee logical IDs (0-16383) to be included in the report. The default setting is 0 to 16383.
- Callee Gid: Enter the range of Callee Group IDs (0-2047) to be included in the report. The default setting is 0 to 2047.
- Chanl Num: Enter the range of Channel numbers (0-31) to be included in the report. The default setting is 1 to 31.
- Call Class: Enter the Call Classes to include in the report: All (all call classes), AV (Analog Voice Calls), DG (Digital Calls), DVI (Digital Voice Interconnect Calls), IC (Interconnect Calls), or DAT (Data Calls). The default for this field is All (all call classes). Highlight the call class and press the **SELECT** function key to select the call class. More than one call class can be selected, select All to clear other selections.
- Q Priority: Enter the Queue Priority range (0-15) to be included in the report. The default setting is 0 to 15.
- Q Delay: Enter the Queue Delay range (0-6540) to be included in the report. The default setting is 0 to 6540.
- Duration: Enter the activity duration range (0-6540) to be included in the report. The default setting is 0 to 6540.

Sort Criteria

The Sort Criteria window allows you to control the selection and priority of sort keys. This window consists of two columns: Sort and Priority.

EDACS System Manager V2.05	User Menu	[SMGTGT] EGESYSMGR
Selected Menu Item		
Enter Menu Item : 63		
Menu Selections		
1) Database Maintenance	0) Devic	e Report
2) Site Reconfiguration	1) Logic	al Unit
3) Device Communication	2) Group	,
4) Alarm Control	3) Activ	ity Detail
5) Radio Control	4) Activ	ity Summary
6) Reports	5) Alarm	i
7) System Maintenance	6) Chann	el Statistics
	7) Site	Statistics
	8) Event	Log Display
	9) Repor	ts Manager

(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)



Press Return

ACE System Manager Activ	ity Details Report	េន	MGTGT] BGRSYSM
Site:01 Start : 05-Apr-1993	07:19 Stop : 05-Apr	-1993 0	7:19
Select Criteria	Sort Criteria	<u>.</u>	
Call Types : All Indy Spel	Emer	Sort	Priority
Grp Sys Data	Call Types	: N	0
Caller Lid : 0 To 16383	Caller Lid	: N	Q
Callee Lid : 0 To 16383	Caller Name	: N	0
Callee Gid : 0 To 2047	Callee Lid	: N	0
Chanl Num : 1 To 31	Callee Name	: N	0
Call Class : All AV DV DVI	IC DAT Group Id	: N	0
Q Priority : O To 15	Call Class	: 13	0
g Delay : 0 To 6540	Channel Num	: N	0
Duration : O To 6540	Q Priority	: N	0
	Duration	: N	0

Nessagea

(F6=Exit)(F10 = Re-enter Defaults)(D0 = Generate Report)

Figure 28 - Reports: Activity Detail (Screen 63)

The Sort column allows you to select sort keys, and the Priority column displays the sort key priority. For example, if your first choice is to sort the report by Call Type, enter a \mathbf{Y} in the Call Type sort column. A "1" will appear in the Priority column for Call Type. If your second choice is by Caller Lid, enter a \mathbf{Y} in the Caller Lid sort column. A "2" will appear in the Priority column for Caller Lid.

Call Types: Entering Y in this field sorts the report alphanumerically by call type.

Caller Lid: A Y in this field sorts the report by Caller LID number.

- Caller Name: A Y in this field sorts the report by Caller Name number.
- Callee Lid: A Y in this field sorts the report by Callee LID number.
- Callee Name: A Y in this field sorts the report by Callee Name number.

Group Id: A Y in this field sorts the report by Group Id number.

Call Class: A Y in this field sorts the report by Call Class name.

Channel Num: A Y in this field sorts the report by Channel number.

Q Priority: A Y in this field sorts the report by the queue priority number.

Duration: A **Y** in this field sorts the report by activity duration.

4) ACTIVITY SUMMARY

The Activity Summary Report function reports the number and types of calls that occurred during a specified time period at the site.

The ending time displayed on the screen is the time of the entry into the screen, and is not the end time of the data contained on the System Manager for the site selected. Therefore, when doing activity reports with a time range in the same day as today, you should do an activity download on the site and then wait for the download to complete. Once the download completes, you can submit the activity report.

The Activity Summary Report screen consists of two main windows; a Select Criteria window and a Sort Criteria window. You can use the cursor or Tab keys to select the information fields to enter the information determining the parameters of the report, and the manner in which this information is presented (Sorted). Definitions for the two windows are listed below.

A typical view of the User Menu and Activity Summary Report screen is shown in Figure 29.

Select Criteria

Call Types:	Enter the call types to include in the report: All (all call types), Indv (Individual Calls) information, Spcl (Spe- cial Calls) information, Emer (Emergency Call) information, Grp (Group) information, Sys (System Call) in- formation, or Data (Data Call) information. The default for this field is All (all calls). Highlight the call type and press the SELECT function key to select the call types. More than one call type can be selected, select All to clear other selections.
Caller Lid:	Enter the range of Caller logical IDs (0-16383) to be included in the report. The default setting is 1 to 16382.
Callee Lid:	Enter the range of Callee logical IDs (0-16383) to be included in the report. The default setting is 0 to 16383.
Callee Gid:	Enter the range of Callee Group IDs (0-2047) to be included in the report. The default setting is 0 to 2047.

- Chanl Num: Enter the range of Channel numbers (0-31) to be included in the report. The default setting is 1 to 31.
- Call Class: Enter the Call Classes to include in the report: All (all call classes), CV (Clear Voice Calls), VG (Voice Guard Calls), VGI (Voice Guard Interconnect Calls), IC (Interconnect Calls), or DAT (Data Calls). The default for this field is All (all call classes). Highlight the call class and press the **SELECT** function key to select the call class. More than one call class can be selected, select All to clear other selections.
- Q Priority: Enter the Queue Priority range (0-15) to be included in the report. The default setting is 0 to 15.

Q Delay: Enter the Queue Delay range (0-6540) to be included in the report. The default setting is 0 to 6540.

Duration: Enter the activity duration range (0-6540) to be included in the report. The default setting is 0 to 6540.

Sort Criteria

The Sort Criteria window allows you to control the selection and priority of sort keys. This window consists of two columns: Sort and Priority.

The Sort column allows you to select sort keys, and the Priority column displays the sort key priority. For example, if your first choice is to sort the report by Caller Lid, enter a Y in the Caller Lid sort column. A "1" will appear in the Priority column for Caller Lid. If your second choice is by Callee Lid, enter a Y in the Callee Lid sort column. A "2" will appear in the Priority column for Callee Lid.

Caller Lid: A Y in this field sorts the report by Caller LID number.

Callee Lid: A Y in this field sorts the report by Callee LID number.

Enter Menu Item : 54 Menu Selections Main Categories 1) Database Maintenance 2) Site Reconfiguration 3) Device Communication 4) Alarn Control 5) Radio Control 61 Reports 7) System Maintenance 7) System Maintenance 7) System Maintenance F7 = Exit from System Manager) (F10 = Clear Menu Item) Select = Submit Current Menu Item) F7 = Exit from System Manager) (F10 = Clear Menu Item) Select = Submit Current Menu Item) F7 = Exit from System Manager) (F10 = Clear Menu Item) Select = Submit Current Menu Item) F7 = Exit from System Manager) (F10 = Clear Menu Item) Select = Submit Current Menu Item) F7 = Exit from System Manager) (F10 = Clear Menu Item) Select = Submit Current Menu Item) F7 = Exit from System Manager Activity Summary Report (Select = Submit Current Menu Item) F7 = Exit from System Manager Activity Summary Report (Select Criteria Caller Lid : 0 To 16383 Caller Lid : 0 To 16383					lected Menu Item—
Main Categories 1) Database Maintenance 2) Site Reconfiguration 3) Device Communication 4) Alarm Control 5) Radio Control 6) Reports 7) System Maintenance 7) System Maintenance 8) Reports 7) System Maintenance 9) Reports 6) Channel Statistics 6) Channel Statistics 6) Ster Statistics 6) Brent Log Display 9) Reports Manager 100 Start : 05-Apr-1993 07:20 11 Types : All Indv Spel Bmer 11 Types : All Indv Spel Bmer 12 Caller Lid : 0 To 16383 13 Callee Gid : 0 To 2047 14 Chanel Num : N 15 Datas : All AV DV DVI IC DAT 16 Priority : 0 To 15 17 Priority : 0 To 15 10 Delav <				64	Enter Menu Item :
1) Database Maintenance 2) Site Reconfiguration 3) Device Communication 4) Alarm Control 5) Radio Control 6) Reports 7) System Maintenance 7) System Maintenance 8) Reports 7) System Maintenance 9) Reports 6) Channel Statistics 8) Event Log Display 9) Reports Manager (F10 = Clear Menu Item) 27 = Exit from System Manager) (F10 = Clear Menu Item) 20 21 22 23 24 25 26 27 = Exit from System Manager) (F10 = Clear Menu Item) 29 20 21 22 23 24 25 26 27 28 29 29 20 20 21 21 21 21 21 21 21		rta	F		nu Selections
 2) Saturdate Maintenance 2) Site Reconfiguration 3) Device Communication 4) Alarm Control 5) Radio Control 6) Reports 7) System Maintenance 7) System Manager) (F10 = Clear Menu Item) 8) Byont Log Display 9) Reports Manager 7) System Manager 7) Site Statistics 8) Byont Log Display 9) Reports Manager 7) Site Statistics 8) Byont Log Display 9) Reports Manager 7) Site Statistics 8) Byont Log Display 9) Reports Manager 7) Site Statistics 8) Byont Log Display 9) Reports Manager 7) Site Statistics 8) Byont Log Display 9) Reports Manager 7) Site Statistics 8) Byont Log Display 9) Reports Manager 7) Site Statistics 8) Byont Log Display 9) Reports Manager 9) Reports Manager 9) Reports Manager 9) Report Manager 9) Report Manager 9) Report Log Display 9) Report Manager 		Device Report			1) Detabago Maint
 2) Site Reconfiguration 3) Device Communication 4) Alarm Control 5) Radio Control 6) Reports 7) System Maintenance 7) System Manager) (F10 = Clear Menu Item) 8) Byont Log Display 9) Reports Manager 7) Site Statistics 8) Byont Manager 8) System Manager 9) Reports Manager 9) Reports Manager 9) Report (Statistics System Manager 9) Step: 05-Apr-1993 07:20 9) St		Logical Unit			1) Database Maint
 3) Device communication 4) Alarm Control 5) Radio Control 61 Reports 7) System Maintenance 7) System Manager) (F10 = Clear Menu Item) 8) Byent Log Display 9) Reports Manager 9) Reports Manager 9) Reports Manager 9) Press Return 8) Start 1 05-Apr-1993 07:20 9) Stop : 05-Apr-1993 07:20<td></td><td>Sucur</td><td></td><td>iration</td><th>2) Site Reconrigu</th>		Sucur		iration	2) Site Reconrigu
 4) Alarm Control 5) Radio Control 6) Reports 7) System Maintenance 7) System Maintenance 8) Activity Summary 5) Alarm 6) Channel Statistics 8) Event Log Display 9) Reports Manager 9)		Group		cation	3) Device Communi
5) Radic Control 6) Reports 7) System Maintenance 7) System Maintenance 7) System Maintenance 7) Site Statistics 8) Event Log Display 9) Reports Manager 9) Report		Activity Jetail			4) Alarm Control
5) Alarm 5) Alarm 6) System Maintenance 5) Alarm 6) Channel Statistic 7) System Maintenance 6) Channel Statistic 7) Site Statistics 8) Byent Log Display 9) Reports Manager 9) Repo		Activity Summary			5) Radio Control
 7) System Maintenance 6) Channel Statistic 7) Site Statistics 8) Event Log Display 9) Reports Manager 9) Reports Manager 9) Reports Manager 9) Press Return EDACS System Manager Activity Summary Report (4) Site:00 Start: 05-Apr-1993 07:20 Stop: 05-Apr-1993 07:20 Stop		Alarm			6) Reports
7) Site Statistics 8) Event Log Display 9) Reports Manager = Exit from System Manager) (F10 = Clear Menu Item) lect = Submit Current Menu Item) Press Return EDACS System Manager Activity Summary Report (1) Site:00 Start : 05-Apr-1993 07:20 Stop : 05-Apr-1993 0 Select Criteria Caller Lid : 0 To 16383 Callee Lid : 0 To 16383 Callee Lid : 0 To 2047 Chan Rum : 1 To 31 Call Class : All AV DV DVI IC DAT 9 Priority : 0 To 15 0 Pairw - 0 To 5540	CS	Channel Statistics		lance	System Mainter
8) Event Log Display 9) Reports Manager = Exit from System Manager) (F10 = Clear Menu Item) lect = Submit Current Menu Item)		Site Statistics			
9) Reports Manager = Exit from System Manager) (F10 = Clear Menu Item) lect = Submit Current Menu Item) Press Return EDACS System Manager Activity Summary Report (S Site:00 Start : 05-Apr-1993 07:20 Stop : 05-Apr-1993 0 Select Criteria Caller Lid : 0 To 16383 Callee Lid : 0 To 16383 Callee Lid : 0 To 2047 Chanl Rum : 1 Hor JI Call Class : All AV DV DVI IC DAT Q Priority : 0 To 15 0 Delaw - 0 To 5640	Y	Event Log Display			
= Exit from System Manager) (F10 = Clear Menu Item) lect = Submit Current Menu Item)		Reports Manager			
= Exit from System Manager } (F10 = Clear Menu Item) lect = Submit Current Menu Item) Press Return EDACS System Manager Activity Summary Report (4 Site:00 Start : 05-Apr-1993 07:20 Stop : 05-Apr-1993 (7) Select Criteria Caller Lid : 0 To 16383 Callee Lid : 0 To 16383 Callee Cid : 0 To 2047 Chanle Rum : 1 To 31 Call Class : All AV DV DVI 1C DAT Q Priority : 0 To 15 0 Delaw - 0 To 5640					
ZDACS System ManagerActivity Summary Report(i)Site:00Start : 05-Apr-1993 07:20Stop : 05-Apr-1993 0Select CriteriaSort CriteriaCall Types : All Indy Spol Emer Caller Lid : 0 To 16383 Callee Lid : 0 To 16383 Callee Gid : 0 To 2047 Chank Num : 1 To 31 Call Class : All AV DV DVI TC DAT Q Priority : 0 To 15 0 Dalaw - 0 To 5640		Press Return	-		
Select Criteria Solp : 05 Mpr 2725 * Call Types : All Indv Spol Emer Grp Sys Data Sort Criteria Caller Lid : 0 To 16383 Caller Lid : N Callee Lid : 0 To 16383 Group Id : N Callee Gid : 0 To 2047 Call Class : N Call Class : All AV DV DVI IC DAT Q Priority : 0 To 15 Q Priority : 0 To 5540 O To 5640	SMCTGT] EGESYSMG	stop : 05-acc-1993 07:2	Manager Activi	SDACS Syst	I
Call Types : All Indv Spol Emer Grp Sys Data Soft Cilleria Caller Lid : O To 16383 Callee Lid : N Callee Lid : O To 16383 Group Id : N Callee Gid : O To 2047 Call Class : N Call Class : All AV DV DVI IC DAT Q Priority : O To 15 Q Delaw : D To 5540 O To 2540		-Sort Criteria	iteria	Select	
Call Types ; All Indv Spol Emer Grp Sye DataSortCaller Lid :O To 16383Caller Lid : NCallee Lid :O To 16383Group Id : NCallee Gid :O To 2047Call Class : NChank Num :1 To 31Channel Num : NCall Class : All AV DV DVI IC DAT Q Priority :O To 15O Delaw :O To 5640			176119	Leelecc	
Caller Lid:Caller Lid:NCaller Lid:0To16383Caller Lid:Caller Lid:0To16383Group Id:Caller Caller Caller:0To2047Call Class :NCaller Gid:0To2047Call Class :NCaller Caller Caller:1Caller CallerNNCall Class:All Caller:NNCall Class:All NUM:NNCall Class <td:< td="">:0To15O Delaw:0To5540I</td:<>	; Priority	Sort	es : All Indv Spel B	Call	
Callee Lid : 0 To 16383 Group Id : N Callee Gid : 0 To 2047 Call Class : N Chanl Num : 1 To 31 Channel Num : N Call Class : All AV DV DVI IC DAT Q Priority : 0 To 15 O Delay : 0 To 5540	0	Caller Lid : N	Grp Sys Data	Calle.	
Callee Gid :0 To 2047Call Class : NChanl Num :1 To 31Channel Num : NCall Class :All AV DV DVI IC DATQ Priority :0 To 15Q Delay :0 To 5540	õ	Group Id ; N	id : 0 To 16383	Calle	
Chanl Num :) To 31 Call Class : All AV DV DVI IC DAT Q Priority : 0 To 15 O Dalay : 0 To 5540	0	Call Class : N	id : 0 To 2047	Calle	
Q Priority: 0 To 15	o	Channel Num ; N		Chanl	
		`	tv t O To 15		
5 bérek • 0 70 0040			: 0 То 6540	Q Del.	
Duration : O To 6540			1 ÷ 0 To 6540	Durat	

Messages (F6=Exit)(F10 = Re-enter Defaults)(D0 = Generate Report)

Figure 29 - Reports: Activity Summary (Screen 64)

Group Id: A Y in this field sorts the report by Group Id number.

Call Class: A Y in this field sorts the report by Call Class name.

Channel Num: A Y in this field sorts the report by Channel number.

5) ALARM

The Alarm Report provides a listing of site alarm conditions for a specific period. Alarm Types and channel numbers can be specified for the report. Customary defaults are provided for the Alarm Types.

The Alarm Report is shown in Figure 30. Appendix "D" defines Alarm types.

-Selected Menu Item Enter Menu Item : 65	
Menu Selections Main Categories	Reports
 2) Site Reconfiguration 3) Device Communication 4) Alarm Control 5) Radio Control 6) Reports 7) System Maintenance 	 b) bevice Report 1) Logical Unit 2) Group 3) Activity Detail 4) Activity Summary 5) Alarm 6) Channel Statistics 7) Site Statistics 8) Event Log Display 9) Reports Manager

(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)



Press Return

EDACS Syste	em Manager	Alarm Rep	ort		(SMGTGT)	DOCWRITE
Site:00	Start : 04-Aug-1993	3 09:27	Stop :	04-Aug-19	93 09:27	
		Ľ	Channel	Selection	1	
Select [*] [*] [*] [*] [*] [*] [*] [*] [*] [*]	Alarm 1 External Device 2 Minor Alarm 3 Major Alarm 4 Test Calls 5 TU CC Fail 6 Background Test Cal 7 Channel Diagnostic: 8 Power Monitor Unit	11	Channel	Number:	1 To 31	

Messages (F6=Exit)(F10 = Re~enter Defaults)(Do = Generate Report)

Figure 30 - Reports: Alarm (Screen 65)

Enter the site number, move to the start window using the **SELECT** key or cursor. Enter the start date (dd-mmm-yyyy) and time (00:01 - 24:00). Move to the Stop window and enter the stop date and time.

Press the **DO** key to generate the report.

6) CHANNEL STATISTICS

The channel statistics report provides channel availability and channel activity information for each channel at a site. This information is useful in determining system loading.

A typical view of the User Menu and Channel Statistics Report screen is shown in Figure 31.

Enter the site number, move to the start window using the **SELECT** key or cursor. Enter the start date (dd-mmm-yyyy) and time (00:01 - 24:00). Move to the Stop window and enter the stop date and time.

Press the **DO** key to generate the report.

EDACS System Manager V2.05	User Menu	[SMGTGT] EGESYSMGR
Selected Menu Item Enter Menu Item : 66		
Menu Selections	Bananta	
Main Categories 1) Database Maintenance 2) Site Reconfiguration 3) Device Communication 4) Alarm Control 5) Radio Control 6] Reports 7) System Maintenance	Reports- O) Devi 1) Logi 2) Grou 3) Acti 4) Acti 5) Alar 6] Chan 7) Site 8) Even 9) Repo	ce Report cal Unit p vity Detail vity Summary m nel Statistics Statistics t Log Display rts Manager
(F7 = Exit from System Manager) (Select = Submit Current Menu)	(F10 = Clear Menu I (tem)	tem)
BDACS System Ma	nager Channel Stat:	SS Return
Site:00 Sta	rt : 05-Apr-1993 D7:33 Sto	ур : 05-арг-1993 07:33

Figure 31 - Reports: Channel Statistics (Screen 66)

(F6=Exit)(Do = Generate Report)

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7) SITE STATISTICS

The site performance statistics report breaks down calls placed during each hour of site operation. It also provides information on call duration and call queuing.

A typical view of the User Menu and Site Statistics Report screen is shown in Figure 32.

Enter the site number, move to the start window using the **SELECT** key or cursor. Enter the start date (dd-mmm-yyyy) and time (00:01 - 24:00). Move to the Stop window and enter the stop date and time.

Press the **DO** key to generate the report.

EDACS System Manager V2.05	User Menu	[SMGTGT]	EGESYSMOR
Selected Menu Item			
Enter Menu Item : 67			
Menu Selections			
Main Categories		18-	
1) Database Maintenance		vice Report	
2) Site Reconfiguration		gical only	
3) Device Communication	2) GI	oup	
4) Alarm Control	3) Ac	tivity Detail	
5) Radio Control	4) Ac	tivity Summary:	
6) Reporte	5) Al	arm	
7} System Maintenance	6) Ch	annel Statistics	
	7) S.	te Statistice	
	8) Ev	ent Log Display	
	9) Re	≥ports Manager	
7} System Maintenance	6) CH 7) S 8) Ev 9) Re	annel Statistics te Statistice vent Log Display ports Manager	2000

(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)



Press Return

DACS Syste	m Manager	Site Star	tistics	I	(SNGTGŤ)	EGESYSMG
Site:00	Start : 05-Apr	-1993 07:35	Stop : (05-Apr-1993	07:35	



Figure 32 - Reports: Site Statistics (Screen 67)

8) EVENT LOG DISPLAY

The Event Log Display allows you to examine the events for a particular date. This report details all System Manager activity such as menu selections, upload requests, etc. Use the Tab or cursor keys to access the Date of Log to Examine field, and enter the desired date.

The various function keys, described at the bottom of the screen, allow you to move through the log.

DACS System Manager V2.05	User Menu	[SMGTGT]	EGESYSMGR
Selected Menu Item			
Enter Menu Item : 68			
Menu Selections-			
_ī Main Categories		,	
1) Database Maintenance	0) Dev	ice Report	
2) Site Reconfiguration	1) Log	ical Unit	
 Bevice Communication 	2) Gro	up	
4) Alarm Control	3) Act	ivity Detail	
5) Radio Control	4) Act	ivity Summary	
5) Reporta	5) Ala	rm	
7) System Maintenance	6) Cha	nnel Statistics	
		e Statistics	
	8) Eve	nt Log Dieplay	
	9) Rep	orts Manager	
(F7 = Exit from System Manager)	(F10 = Clear Menu	Item)	
Select = Submit Current Menu I	.tem)		
	Pre Pre	ss Return	
EDACS System Ma	nager Event Log Di	isplay (SMGTG	T; EGESYSMOR
[Selected Date-			
Date of log	to examine : 05-Apr-1993		

(P6 = Exit) (DO = Examine Log)

Figure 33 - Reports: Event Log Display (Screen 68)

9) REPORTS MANAGER

The Report Manager allows you to print, view, or delete reports generated by report screens 1) through 7). It also allows you to verify that the report contents matches the database information in the System Manager.

Enter the Reports Manager (69) by pressing the **SELECT** key. This enters the Reports Manager screen. The screen displays a scrolling list of previously generated reports. Use the **Up** and **Down** arrow keys to highlight the desired report.

The highlighted report is printed by pressing (F10 key), viewed on the terminal by pressing (F11 key), or deleted by pressing (F12 key).

Figure 34 shows a typical view of the User Menu and Reports Manager Display screen.



(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)



Report Type	Site Number	Creation Date	
Alarm Activity	Site: 06	Wed Feb 24 08:59:12	1993
Alarm Activity	Site: 09	Fri Feb 26 09:51:10	1993
Activity Detail	Site: Dl	Fri Mar 5 16:04:04	1993
Activity Detail	Site: 02	Fri Mar 5 16:04:07	1993
Activity Detail	Site: 03	Fri Mar 5 16:04:15	1993
Activity Detail	Site: 04	Fri Mar 5 16:04:17	1993
Activity Detail	Site: 05	Tue Mar 16 12:16:53	1993
Activity Detail	site: 05	Fri Feb 26 14:02:33	1993
Activity Detail	Site: 05	Fri Feb 26 14:02:33	1993
Activity Detail	Site: 05	Fri Feb 26 14:02:33	1993
Activity Detail	Site: 06	Fri Mar 5 16:04:19	1993
Activity Detail	Site: 06	Fri Feb 26 14:07:43	1993
Activity Detail	Site: 07	Fri Mar 5 16:04:22	1993
Activity Detail	Site: 08	Fri Mar 5 16:04:25	1993
Activity Detail	Site: 09	Frì Mar 5 16:04:29	1993
Activity Detail	Site: 09	Mon Mar 1 11:30:47	1993

(F6 = Exit) (F10 = Print) (F11 = View) (F12 = Delete)

Figure 34 - Reports: Reports Manager Display (Screen 69)
7) SYSTEM MAINTENANCE

There are eight categories shown in the System Maintenance screen. These categories are listed in the System Maintenance window as 0) through 7). Each of these categories has one or more field definition or archive and retrieve (backup and restore) screens. When in System Maintenance: Agency Partition Table 70), pressing the Return key displays the Agency Partition Table screen.

0) AGENCY PARTITION TABLE

The Agency Partition Table allows you to group radio units together to allow radio users with common purposes to communicate freely with each other (group communications). Each agency can be further divided into fleets, and fleets divided into subfleets.

Through the Agency Partition Definition function of the System Maintenance Menu, the number of agencies, fleets, and subfleets on the system are defined.

A simplified diagram showing examples of the different levels is shown in the following diagram:

FIRST LEVEL	(Co	AGENCY ounty or City)
SECOND LEVEL	FLEET 1	FLEET 2
	Public Safety	Transportation
THIRD LEVEL	SUBFLEET 1 Police Dept.	SUBFLEET 2 Fire Dept.
		NOTE

When setting up any system, the agency partition table must be created <u>first</u>. No user, unit, or group records can be created until this table is defined.

The Agency Partition Table screen consists of two windows; an Agency Count window, and a window with three columns named Agency, Fleet and Subfleet. A typical view of the User Menu and the Agency Partition Table screens are shown in Figure 35.

Agency Count: Enter the Agency Count Number (1 - 32). This is the number (maximum) of Agencies to be defined in your system.

- Fleet: Move the cursor to the Fleet field of the first Agency (Agency 0). Enter the number of fleets to be defined under this agency. Repeat this procedure for each Agency listed on the screen.
- Subfleet: The number of possible subfleets is automatically calculated by the System Manager based on the number of fleets and agencies.



(F7 = Exit from System Manager) (F10 = Clear Menu Item)
(Select = Submit Current Menu Item)



Press Return

BDACS System Manager

Agency Partition Table

[SMCTGT] ECESYSMOR

Agency Count : 8

rency	Fleet	Subfleet
0	16	16
1	16	16
2	16	16
3	16	16
4	16	16
5	16	16
6	4	64
7	16	16

(P6 = Exit) (F10 = Reset APT to Original Set of Values) (Do = Save APT) You may not change the A-F-S structure when units or groups exist

Figure 35 - System Maintenance: Agency Partition Table (Screen 70)

1) USER ACCOUNT MAINTENANCE

The User Account Maintenance under the System Maintenance function allows you to access all Agency, Fleet and Subfleet databases to set user parameters. The default values are used when the system is first powered up, and remain in effect until changed.

When User Account Maintenance has been selected, i.e., function number 71, pressing **Return** displays the Selected User window.

This window contains a field for the User Name. Press **Return** after you enter the User Name to display the User Parameters window.

The User Account Maintenance consists of eight User Definition screens. Each User Definition consists of two basic windows, a Selected User window and a User Parameters or Menu Option window. These screens are numbered 1:8 through 8:8, and these numbers appear at the top right of each window following the Selected User window.

A typical view of the User Menu and User Definition screens 1:8 through 8:8 are shown in Figure 36.

NOTE

All of the Group Identification screens as well as the function key definitions at the bottom of these screens are identical for screens 1:3 through 3:3.

Screen 1:8 - User Definition

Password: A 12-character field used to assign a password to the user account.

- A/F/S Access: A set of three fields (one for agency number, one for fleet number and one for subfleet). When an agency number is specified, you have access to all records pertaining to radio units associated with fleets and subfleets. When an agency and fleet number are specified, you have access to all records pertaining to radio units associated with the designated fleet and associated subfleets.
- Captive Account: Defines account user access to the operating system. Entering an **N** in this field will allow the account user to exit the system manager and use the operating system. Entering a **Y** in this field (default) will not allow the account user access to the operating system.

<u>User Note</u>: Access to VMS (operating system) is not normally available to account users. For information on user access, please call Ericsson GE application engineering.

Default Site: The site entered in this field that will be affected by these menu option selections.

Device Access: Limits access to the database except for assigned devices. This prevents unauthorized access to sites. Enter **Y** under the number of the device that you wish to allow access to the database. The default for this field is **N**.

Press Next Screen to access screen 2:8 from the User Parameters window 1:8.

Enter	ienu Item : 71	
Menu Sel (Main C 2) Si 3) De 4) Al 5) Ra 6) Re 7) Sy	Actions Itegories :abase Maintenance :abase Maintenance :ce Communication vice Communication vice Communication in Control iio Control jorts stem Maintenance	System Maintenance 0) Agency Partition Table 1) User Account Maintenance 2) Database Archive 3) Database Retrieval 4) Activity Archive 5) Activity Retrieval 6) System Backup 7) Disk Space Manager
(F7 = Exi (Select =	: from System Manager) (F10 Submit Current Menu Item)) = Clear Menu Item) Press Return
	EDACS System Hanager	Definition (EMGTUT) ECESYSHER
Press Next Screen Key	Selected User	
For 1:8 - 3:8	User Faraneters-	+: =
	→ Password : λ/F/S Access: 0/ D/ D - Captive Account : Y Rntari Default Site : 2	0/ 0/ 0 .ng a Y will dimallow VMS access; 12.2456789012234567890123456789012
	{33 - 64) ;	NNKNKNKKKATTATATATATATATATATA
	EDACS System Kanager	User Definition [SMGRGT] EGESYSMGR
\backslash	Enter User Name : Menu Options	2:8
	Screen Roceass Y Y Y Y Y Y Y Y Y	Database Naintenance 0) Sitm / Device Definition 1) Logien3 Unit Definition 2) Group Definition 3) Rotary Definition 4) Line Definition 5) Toll Cell Restrictions 6) ACU Farameters 7) Console Definition
	EUACE System Hanagi	er User Definition (SMCTCT) ECESYS
	Selected User Baler User Name	·
	Menu Options-	Sile Reconfiguration-
	Access Y Y Y X	0) Channel 1) Chil Parameters 2) Test Parameters 2) Xiscellaneous 4) Relay

Figure 36 - System Maintenance: User Account Maintenance (Screen 71) (Includes User Definition Screens 1:8, 2:8 and 3:8. Screens 4:8 through 8:8 are shown on the following page.)



Figure 37 - System Maintenance: User Account Maintenance (Screen 71) (Includes User Definition Screens 4:8 through 8:8)

Screen 2:8 - Menu Options (Database Maintenance)

This screen consists of the Selected User window and the Menu Options window. The Menu Options window also has a secondary window that lists the functions for Database Maintenance screens.

Screen Access: Entering a **N** in this field denies the new user access to the Database Maintenance functions. Entering a **Y** (default) allows the user access to this screen.

Press Next Screen to access the Menu Options (Site Reconfiguration) screen from the Menu Options (Database Maintenance) screen.

Screen 3:8 - Menu Options (Site Reconfiguration)

This screen consists of the Selected User window and the Menu Options window. The Menu Options window also has a secondary window that displays the functions for Site Reconfiguration screens.

Screen Access: Entering a **N** in this field denies the new user access to the Site Reconfiguration functions. Entering a **Y** (default) allows the user access to this screen.

Press **Next Screen** to access the Menu Options (Device Communication) screen from the Menu Options (Site Reconfiguration) screen.

Screen 4:8 - Menu Options (Device Communication)

This screen consists of the Selected User window and the Menu Options window. The Menu Options window also has a secondary window that lists the functions for Device Communication screens.

Screen Access: Entering a **N** in this field denies the new user access to Device Communication functions. Entering a **Y** (default) allows user access to this screen.

Press **Next Screen** to access the Menu Options (Alarm Control) screen from the Menu Options (Device Communications) screen.

Screen 5:8 - Menu Options (Alarm Control)

This screen consists of the Selected User window and the Menu Options window. The Menu Options window also has a secondary window that lists the functions for Alarm Control screens.

Screen Access: Entering a **N** in this field denies the new user access to Alarm Control functions. Entering a **Y** (default) allows user access to this screen.

Press Next Screen to access the Menu Options (Radio Control) screen from the Menu Options (Alarm Control) screen.

Screen 6:8 - Menu Options (Radio Control)

This screen consists of the Selected User window and the Menu Options window. The Menu Options window also has a secondary window that lists the functions for Radio Control screens.

Screen Access: Entering a **N** in this field denies the new user access to Radio Control functions. Entering a **Y** (default) allows user access to this screen.

Press Next Screen to access the Menu Options (Reports) screen from the Menu Options (Radio Control) screen.

Screen 7:8 - Menu Options (Reports)

This screen consists of the Selected User window and the Menu Options window. The Menu Options window also has a secondary window that lists the functions for Reports screens.

Screen Access: Entering a N in this field denies user access to Reports functions. Entering a Y (default) permits user access to this screen.

Press Next Screen to access the Menu Options (Systems Maintenance) screen from the Menu Options (Reports) screen.

Screen 8:8 - Menu Options (Systems Maintenance)

This screen consists of the Selected User window and the Menu Options window. The Menu Options window also has a secondary window that lists the functions for Systems Maintenance screens.

Screen Access: Entering a N in this field denies the new user access to Systems Maintenance functions. Entering a Y (default) allows user access to this screen.

2) DATABASE ARCHIVE

The Database Archival procedure allows you to save (backup) the System Manager databases to tape. The Database Archive Display can be accessed from the System Manager: Database Archive screen 72 by pressing the **Return** key. Use the **Tab** key to enter the date fields to type in the dates.

The last archive date and today's date are displayed.

Press the **Do** key to start the archive procedure.

A typical view of the User Menu and the Database Archive Display is shown in Figure 38.



(F6 = Exit) (D0 = Start Archive)

Figure 38 - System Maintenance: Database Archive (Screen 72)

3) DATABASE RETRIEVAL

The Database Retrieval procedure allows you to retrieve (restore) archived System Manager databases. The Database Archive Display can be accessed from the System Manager: Database Retrieval screen 73 by pressing the **Return** key. Use the **Tab** key to enter the date fields, and then press **Return** to display the required tapes.

Next, enter the ending date for records to be saved in the Last Archive Date field. The default value is the most recent file in the System Manager. Press the **Do** key to start the archive procedure.

A typical view of the User Menu and the Database Retrieval Display is shown in Figure 39.

DACS System Manager V2.05	User Menu	[SMGTGT] EGESYSMGR
Selected Menu Item-		
Enter Menu Item : 73		
Menu Selections		
Main Categories	[System]	Maintenanc e
1) Database Maintenance	0} Age:	ncy Partition Table
2) Site Reconfiguration	1) Use	r Account Maintenance
3) Device Communication	2) Dat	abase Archive
4) Alarm Control	S) Dat	abase Retrieval
5) Radio Control	4) Act	ivity Archive
6) Reports	5) Act	ivity Retrieval
7) System Maintenance	6) Sva	tem Backup
	7) Dis	k Space Manager
E	,	

(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)

			Press Retu	rn
EDACS	System Manager	Database Retri	ieval Display	[Smgtgt] Egesysngr
Date	First Archive Date:	21-JAN-1993	Last Archive D	ate: 21-JAN-1993
	Caution:			
	Since this proce please make sure th running the applica Once the retriev completes (5 to 15	dure shuts down at this is the tion software p al procedure sh minutes depend:	n all other Syste the only termina package. carts, you may no ing on file sizes	m Manager Software, I on the system It exit until it

(F6 = Exit) (D0 = Start retrieval)

Figure 39 - System Maintenance: Database Retrieval (Screen 73)

4) ACTIVITY ARCHIVE

The Activity Archive procedure allows you to save the preprocessed activity file from the Site Controller to tape. Archiving the file is necessary to prevent the System Manager from automatically deleting the activity records whenever the preset storage capacity is exceeded.

The Activity Archive Display can be accessed from the System Manager: Activity Archive screen 7) 4) by pressing the **Return** key. Use the **Tab** key to enter the date fields, and then press **Return** to display the required tapes.

The ending date field defaults to today's date and should not be changed. This means that activity for today will be backed up. Press the **Do** key to start the archive procedure.

A typical view of the User Menu and the Activity Archive Display is shown in Figure 40.

EDACS System Manager V	/2.05	User Me	nu [SMGTGT] EGESYSMGR
Selected Menu Item	74			
Menu Selections Main Categories 1) Database Mainte 2) Site Reconfigur 3) Device Communic 4) Alarm Control 5) Radio Control 6) Reports 7) System Mainten	enance ration cation		System Maintenan O) Agency Parti 1) User Account 2) Database Arc 3) Database Ret 4) Activity Arc 5) Activity Ret 6) System Backu 7) Disk Space M	ce tion Table Maintenance nive rieval hive rieval p anager
(F7 = Exit from System (Select = Submit Curre	n Manager) ent Menu It	(F10 = C1 em)	ear Menu Item) Press Ref	urn
EDA	CS System Mana	ger Act	livity Archive Display	[SMGTGT] EGESYSMCR
۵٦- ۱	te Selection — Date of last Last archive	archive: end date:	Ending todays	date of archive: 5-APR-1993
	Caution: This proc TK50 tape th starts, you the number o Upan comp 'LABEL=DD-AK the 'Ending the retrieva	edure will over at is inserted may not exit of f activity fil letion you mus M-YYYY'. Where date of todays l process. You	erwrite the contents of a d into the tape drive. Or antil it completes (durat Lee). st physically label the a a DD-MMM-YYYY matches the a archive'. Failure to do a should also maintain ar	iny write enabled ice this procedure icon will depend on wrchive tape as: date entered for this will impair archive log book.

(F6 = Exit) (D0 = Start Archive)

Figure 40 - System Maintenance: Activity Archive (Screen 74)

5) ACTIVITY RETRIEVAL

The Activity Retrieval procedure allows you to restore the archived activity files from tape to the Site Controller. The Activity Retrieval Display can be accessed from the System Manager: Activity Archive screen 75 by pressing the **Return** key. Use the **Tab** key to enter the date fields, and then press **Return** to display the required tapes.

Enter the starting date for activity records to be restored in the Beginning Date field. The default value is the earliest (oldest) archived activity file in the System Manager.

Next, enter the ending date for records to be restored in the Ending Date field. The default value is the most recent archived activity file in the System Manager. Press the **Do** key to start the archive procedure.

A typical view of the User Menu and the Activity Retrieval Display is shown in Figure 41.

[System Maintenance
0) Agency Partition Table
1) User Account Maintenance
2) Database Archive
3) Database Retrieval
4) Activity Archive
5) Activity Retrieval
6) System Backup
7) Disk Space Manager

(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)

	Press Retu	rn
EDACS System Manager	Activity retrieval Display	(SMGTGT) EGESYSMOR
Date Selection		
Beginning Date:	Ending	Date:
R	equired Archive tage:	
A	dditional tape(s):	
Caution: Once the	retrieval procedure starts, you	n may not exit.

(F6 = Exit) (RETURN = Sater dates to display the Required archive tape) (DO = Start retrieval)

Figure 41 - System Maintenance: Activity Retrieval (Screen 75)

6) SYSTEM BACKUP

The System Backup procedure allows you to make a copy of (backup) the entire system disk. The system backup provides a secure copy of all system parameters and software that can be quickly re-installed to restart the System Manager in the event of a catastrophic equipment outage as a result of fires, floods, etc.

The System Disk Backup Display screen can be accessed from the System Maintenance: System Backup screen 76 by pressing the **Return** key. Instructions for performing the system backup are displayed on the System Disk Backup Display screen

A typical view of the User Menu and the Database Retrieval Display is shown in Figure 42.



(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)



System Disk Backup Display [SMGTGT] EGESYSMGR EDACS System Manager Procedure description --Date of last backup: 2-APR-1993 This procedure is the only proper way to backup the system disk. 1) Log all terminals off the system. 2) Depress the restart switch at the rear of the CPO. Note: The following commands must be entered at the console terminal. All occurrences of ddmmmyyyy should be replaced by the current date. 3) At the >>> prompt, enter: B/E0000000 4) Load the desired TK50 tape in the tape drive. 5) In a few moments the \$ prompt will appear, enter: BACKUP/REW/VER/IMAGE/LABEL=SYSddmmmyyyy DKA300: MKA500:ddmnmyyyy.SAV Note: The backup will take approx. 50 min./tape and can take up to three tapes. The system will inform you when to replace the tapes. Carefully label all tapes as 'systemmyyyy Vol # of #' 7) Upon completion, depress the restart button and at the >>> prompt, enter: BOOT The System Manager will restart momentarily.

Press Return



Figure 42 - System Maintenance: System Backup (Screen 76)

7) DISK SPACE MANAGER

Activity data is downloaded periodically from the sites and stored in a directory of the System Manager computer. Unchecked, this data will grow over time until the disk is filled. The Disk Manager solves this problem by maintaining activity disk space at a user-settable level. Additionally, the Disk Space Manager is able to detect when an archive of activity data is necessary and advises the operator to do so.

Of the total disk space used in activity files, a certain portion consists of files which have not been archived. Under normal conditions, total space is maintained at a fixed level by the Disk Manager, but the unarchived portion of the total disk space grows with time. The warning threshold can be set to 999999999, which stops all warning messages. Activity data is then maintained at the deletion threshold with no warning and no need to perform archives.

- **Deletion Threshold:** Total disk space usage in activity files is maintained at the deletion threshold level. The Disk Space Manager periodically checks total space against the deletion threshold and deletes the oldest activity files as necessary to maintain this level. If warnings to perform an activity archive are ignored (i.e. an archive is not performed), eventually the amount of unarchived space equals the total space. When this occurs, messages are output to the terminal informing the operator that unarchived files are being deleted ("Unarchived files being deleted **DATA LOSS**").
- **Warning Threshold:** When the amount of unarchived disk space exceeds the warning threshold, messages are displayed on the screen advising that an activity archive should be performed. The Disk Space Manager periodically checks unarchived space against the warning threshold and output appropriate messages advising of this condition ("Perform backup: n bytes to data loss"). When an activity archive is performed, the operator is informed that conditions have returned to normal ("Disk usage returned to safe limits").
- **Disk Checking Interval:** The amount of time in seconds between disk space checks. The default valued of 600 seconds (10 minutes) provides a good balance between CPU usage and responsiveness to changing disk usage for most customers.

Recommended Settings:

	System Disk	Act Disk	Est. Avail for Act and Log	Deletion Threshold	Warning Threshold
A1	245 MB		111 MB	100 MB	50 MB
A2	426 MB		292 MB	263 MB	132 MB
A3	426 MB		263 MB	263 MB	132 MB
A4	426 MB		263 MB	263 MB	132 MB
A5	426 MB	426 MB	426 MB	383 MB	192 MB

Table 3 - Disk Space Manager Recommended Settings

- 1. Recommend using 90% of available space in Act and Log files. i.e. set deletion threshold to this value.
- 2. Recommend <u>warning threshold</u> set to 50% of deletion threshold. This gives a safe time margin between initial warning and loss of data.
- 3. If <u>no warnings</u> are desired (i.e. no backups will be performed) leave the warning threshold set at 9999999999. This disables warnings.

All Disk Space Manager activity is posted to the Event Log. Therefore, if files are deleted, information regarding the deleted file is still available on the Event Log.

If repeated warnings of pending file deletion are not desired, set the Warning Threshold to a level larger than the Deletion Threshold. This will allow the system to automatically delete the oldest files automatically without warning.

A typical view of the User Menu and the Disk Space Manager is shown in Figure 43.

MDACS System Manager V2.05	User Menu	[SMGTGT] EGESYSMGR
Selected Menu Item		
Enter Menu Item : //		
Menu Selections		
[Main Categories	íSystem	Maintenance
1) Database Maintenance	0) Age	ncy Partition Table
2) Site Reconfiguration	1) Use	r Account Maintenance
3) Device Communication	2) Dat	abase Archive
4) Alarm Control	3) Dat	abase Retrieval
5) Radio Control	4) Act	ivity Archive
6) Reports	5) Act	ivity Retrieval
7) System Maintenance	6) Sya	tem Backup
	71 Dis	x Space Manager

(F7 = Exit from System Manager) (F10 = Clear Menu Item) (Select = Submit Current Menu Item)



EDACS System Manager [Control Parameters	Disk Spa	ace Manager	[SMGTGT]	EGEEYSMGR
Deletion Threshold	99 9939999	Bytes		
Warning Threshold	99999999999999999999999999999999999999	Bytes		
Disk Checking Interval	600	ຽຍດວນຜູສ		
(F6 = Exit) (Do = Store Par	ameters)			

Enter the amount of activity data to maintain on-line

Figure 43 - System Maintenance: Disk Space Manager (Screen 77).

APPENDIX A - MONITOR DISPLAY MESSAGES AND STATUS CHANGES

The following is a list of messages and status calls that may appear on the site monitor display.

4 BAD VOTED MSGS	Four bad voted messages detected by the test unit.
CALL DENIED	Caller has requested a service which cannot be performed.
CALL QUEUED	System fully loaded (all resources for this call are in use), call has been queued.
CARRIER PRESENT	A carrier has been detected on the working channel. This usually indicates the presence of inter- ference or intermodulation (intermod).
CC POLL FAILURE	The Control-Channel GETC failed to respond to its poll from the Site Controller.
CC POWER FAILURE	This channel was the control channel, but the power monitor unit (PMU) has reported a power failure.
CC SYNTH LOCK	The test unit could not lock its synthesizer on the control channel.
CDRP	Call drop
CHNL DIAGNOSTICS	This channel is out of service for a background test call.
CONSOLE ALARM	The console has declared an RF/IF card failure for this channel.
CONTROL CHANNEL	This channel is the control channel.
CONVERT TO CALLEE	Caller placed a call to a group which was already on channel.
DOWNLINK CHANNEL	This channel is a downlink trunking card (GETC).
DROP WITH CARRIER	The working channel has dropped after its last call and a carrier has been detected (see CAR-RIER PRESENT).
EMERGENCY CALL	A radio unit has declared an emergency call and an emergency group call is in progress.
GASN	Group assignment.
GETC COMM ERROR	A communications error has been detected by the Site Controller communication driver.
GROUP CALL	A group call is in progress.
GROUP DATA CALL	A group data call is in progress.
HIGH SPEED FAILED	The test unit detected bad highspeed data on the working channel.

IASN	Individual assignment.
IN USE	Channel is currently busy.
INDIV DATA CALL	An individual data call is in progress.
INDIVIDUAL CALL	An individual call is in progress.
INTERCONNECT CALL	A radio-to-telephone interconnect call is in progress.
LOST CC SYNCH	The test unit could not remain synchronized with the control unit.
LOW SPEED FAILED	The test unit detected bad low-speed data on the working channel.
MORSE CODE ID	A morse code identification message (repeater ID) is being broadcast over this channel.
NAVAIL	Channel is not available.
NO CC FOUND	The test unit could not find a control channel for its request.
NO CC HIGH SPEED	Control channel high-speed data is bad or nonexistent.
NO CHNL ASSIGNED	The test unit received no channel assignment when it requested a channel.
NO DROP SEEN	The test unit did not see the channel broadcast a drop sequence.
NO SITE ID SEEN	No site identification message has been seen.
OFF	No trunking card (GETC) is defined to be at this position.
REPEAT MESSAGES	The test unit has detected repeat messages on the control channel.
SASN	Special assignment.
SYSTEM ALL-CALL	A system all-call is in progress.
SYSTEM BUSY	The system cannot handle the call request at this time.
TELEPHONE CALL	A telephonetoradio call is in progress.
TEST CALL	A test call originated by the Test Unit (TU) is in progress.
WC SYNTH LOCK	The test unit could not lock its synthesizer on the working channel.
WRONG SITE ID	The site number in the site identification message is incorrect.

APPENDIX B - SYSTEM MANAGER MESSAGES

The following messages are responses from the System Manager that may appear on the screen during normal operation.

Activity Report Being Generated Please Wait -- The system is preparing the activity report.

Activity Report Submitted -- Report request has been accepted and sent to the printer.

Activity for Site/Date Not Found -- The activity file for the designated site and date could not be found.

Activity Transfer initiated -- A transfer of the activity data from the designated site has been initiated.

Agency Partition Table Not Found; Must Be Defined By Supervisor -- The Supervisor has not defined the Agency Partition table.

Invalid Date -- Date requested is not within a reportable range.

Invalid Fleet Number -- Reenter a valid fleet number.

Invalid Home Group -- Home group does not exist.

Multiple Control Channels Indicated; Please Reenter -- More than one control channel has been designated.

No Activity Available For This Site -- Site is defined on the system but activity is not available.

No Control Channel Indicated; Please Reenter -- One channel must be designated the control channel.

Operation Permitted On Latched Alarm State Only -- You are trying to alter the Current alarm state. Press F11 to get to the Latched state.

Spooling Activity Report To Printer -- The requested activity report file is being spooled to the printer.

SUPERVISOR Access Not Permitted -- This is a supervisor function and cannot be accessed by a general operator.

Translating Activity To Report File; Please Wait -- The raw activity data is being translated into a user readable form. **Unable To Modify Value** -- Changing this entry would affect related records. Associated records must be changed (deleted) before this value can be changed.

Unable To Read Site Channel Configuration -- The System Manager is unable to communicate with the Site Controller. Check the communications link to the Site Controller. Also, check that the Site Controller is running (system not in failsoft).

Unable To Read Site Parameters Configuration -- The System Manager is unable to send the new configuration data to the Site Controller. Check the communications link to the Site Controller. Also, check that the Site Controller is running (system not in failsoft).

Unable To Reconfigure Site Channels -- The System Manager is unable to send the new configuration data to the Site Controller. Check communications link to the Site Controller. Also, check that the Site Controller is running (system not in fail-soft).

Unable To Reconfigure Site Parameters -- The System Manager is unable to send the new configuration data to the Site Controller. Check the communications link to the Site Controller. Also, check that the Site Controller is running (system not in failsoft).

Undefined Alarm Class Input; Please Reenter -- Alarm class must be R (Reset), E (Enable), or D (Disable).

Undefined Site -- Site requested is not defined on this system.

Value Out Of Range -- Entered value is out of the acceptable range.

You Are Already Sorting On This Field -- Sort option chosen has been selected in a prior Sort field.

You Must Fill Previous Sort Field First -- Previous Sort field has NO SORT as the selected option. Change the selected option for the previous Sort field and try again.

APPENDIX C

AUTOMATIC CONTROL CHANNEL ROTATION

This utility provides the customer with the ability to schedule automatic periodic rotations of the control channel on sites with Site Controllers. The utility operates on a time basis, moving the control channel at an interval specified in the activating command. It operates in a manner similar to the PDP System Manager's control channel walker utility.

In order to utilize this feature, the SMSTART.COM file in SMCOM must be edited to include the command line(s) needed to start the program on the site(s) to which the feature is added.

The following procedure is used to add this feature to the system. Note that at any time during execution of the procedure, if you are concerned that something has been modified that is not part of the procedure, you can cancel all changes by pressing and holding $\langle CTRL \rangle$ and then pressing $\langle Z \rangle$. At the resulting * prompt, type **quit** $\langle cr \rangle$.

To get the feature activated, do the following:

Step Action

- Log into the TEST2 account.
- Type in the command:

edit/edt smcom:smstart.com<cr>

• If the * prompt appears, type the following:

C<cr>

• Press **<FIND>** and type in the following:

untdis_det

then press **<FIND>** again.

- Using the arrow keys, position the cursor at the next line's dollar sign and press <cr>.
- Press **<UP ARROW>** once to position the cursor at the beginning of the line just opened.
- Type in the following:

\$set message/notext/nofacility/noidentification/noseverity<cr>

• Now, type the following line, requesting Automatic Control Channel Rotation. Replace 'site' with the site number for which rotation is requested, 'rotation_rate' with the rotation rate in the form hh:mm:ss.ss, and 'start_time' with the absolute time the job is to start on the current day, in the form hh:mm:ss.ss.

\$@smcom:control_channel_walker 'site' 'rotation_rate' 'start_time'<cr>

As an example of this command line entry:

In this example site 9 is changed to automatic control channel rotation, with a rotation rate of 1 hour, starting at 23:59 hours today. The entry would be:

\$@smcom:control_channel_walker 09 01:00:00.00 23:59:00.00

- Repeat this entry for each site that is to have the control channel rotation. You should get a new line to fill for each site entered.
- Finally, type in the following (NOTE: there is no **<cr>** at the end of this line to prevent the editor from creating another new line):

\$set message/text/facility/identification/severity

- To save the changes, press the **<CTRL>** key and while holding it, press the **<Z>** key. This gets you back to the * prompt.
- At the * prompt, type:

exit<cr>

• Log out of the TEST2 account by typing:

logout<cr>

• Press <**cr**> once or twice until a VMS Username prompt appears, then type:

SHUTDOWN<cr>

and at the password prompt type (note you will not see anything on the screen when you type it):

SHUTDOWN<cr>

• Choose the option to reboot the system by typing:

R<cr>

Once the System Manager has rebooted, the additions in the SMSTART.COM file are activated. Verify the actions of the Control Channel Walker by using the Event Log display, screen 68, in the System Manager menu system. The action taken by the Control Channel Walker process should appear at or around the time you specified, and should reappear at or around the end of the time interval you specified in **rotation_rate**.

APPENDIX D - ALARM REPORT DESCRIPTIONS

This Appendix gives information defining the various selectable Alarm Types. Prior to making these definitions an example is shown of typical alarm output. This is intended to orient the reader to the definitions that follow. It will be noted that the first page of output gives the alarm types enabled for logging and shows the Channels monitored.

Example Alarm report output:

Ericsson/GE EDACS Alarm Report Site Number : 5 7-JUL-1993

Selected Alarm Types:

[*] External Device [*] Minor Alarm [*] Major Alarm [*] Test Calls [*] TU CC Fail [] Background Test Call [] Channel Diagnostics [*] Power Monitor Unit [*] Poller State Change [*] Carrier State Change [*] Auxiliary Alarm [] Channel Record [*] System Mgr Reconfig [*] Console RF/IF [*] RIC Status [*] Frame Sync Link [*] Phone Line [*] GETC Synth Fail [*] GETC Power Fail [] System Mgr Login [*] GETC Comm Error

Selected Channel Range: 1 to 31

Alarms Date : 17-JUN-1993

Ericsson/GE EDACS Alarm Report Site Number : 5 7-JUL-1993 Page: 1

Time Alarm Description _ _ _ _ _ _ _ _ _ _ - - - - - -- - - - -16:29:58.12 POLLER_STATE_CHANGE Changed Chan: 2, Channel Bits: 1C34567890123456789012345D78901 16:29:58.36 POLLER_STATE_CHANGE Changed Chan: 26, Channel Bits: 1C34567890123456789012345D78901 16:29:58.41 POLLER_STATE_CHANGE Changed Chan: 4, Channel Bits: 1C3W567890123456789012345D78901 16:29:58.43 POLLER_STATE_CHANGE Changed Chan: 1, Channel Bits: WC3W567890123456789012345D78901 16:29:58.44 EXTERNAL_DEVICE_ACT Device Not Dead Normal Recovery Failsoft 0 16:33:38.18 GETC_COMM_ERROR Checksum err count: Framing err count : 5 Overrun err count : 0 Parity err count 0 : 2 Last err comm port: 17:08:34.30 SM_RECONFIGURATION Test Calls Are Off, Channel Bits: WCWW567890123456789012345D7890 -----end of example report-----_____

Note that the alarm format includes not only the date of the printout but also the date of the occurrence of the alarms. For each alarm occurrence the time, identification, and description are given. Where applicable, following the words "Channel Bits:" an indicator (character) for each channel being monitored is shown. The meaning of each of these characters is defined below.

CHANNEL BITS CHARACTER DEFINITION

Character	Meaning
С	Indicates the control channel GETC.
D	Indicates the primary downlink position.
W	Working GETC; this is either a Downlink or an RF GETC. Indicates that for the alarm type given the channel is considered OK. (Console audio failure in "Console RF/IF".)
0 to 9	This is used as a placeholder. It indicates one of two things:
	1) An alarm that is not used due to configuration of the system or limits on the alarm type's reporting abilities, or

2) a failure indication.

ALARM TYPE DEFINITION

External Device

This alarm type indicates a change in the state of equipment or externally provided alarm sources, like failsoft.

Minor Alarm

This is an ACU alarm output mask, showing alarms defined in the ACU database as minor alarms. You must reference the ACU database to determine the actual meaning of these alarms as they are defined for each installation.

Major Alarm

This is an ACU alarm output mask, showing at least one alarm defined in the ACU database as a major alarm. All minor alarms, if any exist, are also displayed in the record. You must reference the ACU database to determine the actual meaning of these alarms as they are defined for each installation.

Test Calls

This record is used to indicate a Test Call on a RF channel that failed in the past, and is now trying to come back into service. This record is preceded by a Poller Alarm indicating the channel has passed the polling test of the Site Controller, or by a System Manager Reconfiguration request specifying that the channel tested is to be turned **ON**. This record does not appear in Simulcast systems using remote Test Units.

TU CC Fail

This record indicates the control channel listed has failed due to a problem detected by the Test Unit.

Background Test Call

This record indicates a normal system event for systems having Test Units connected to the Site Controller locally. This does not actually indicate an alarm unless the channel tested by this call is not displayed as working. This record is always preceded by a Channel Diagnostics record.

Channel Diagnostics

This record precedes Background Test Call records for locally connected TUs, and Channel Records for remotely connected TUs. It tells when the indicated channel was taken out of service to perform the automated background checks.

Power Monitor Unit

This record indicates a change in state of a PMU power alarm on a RF channel or an antenna. Multiple alarms can be displayed. The display of alarms indicates power alarms with a W at this time.

Poller State Change

This record indicates a change in state of a GETC with respect to message polling between the Site Controller and the GETC. The GETC identity is indicated. Each record indicates a single channel state change. The state change can be determined by examining the channels display for the record. If there is a W displayed, the channel is assumed to be OK from the polling perspective.

Carrier State Change

This record indicates a carrier alarm state change on the channel specified. Carrier alarms occur when a RF GETC detects carrier on the receiver when it should not be there. The resulting state can be determined by examining the channels display for the record. If there is a W displayed, the channel is assumed to be OK from the carrier alarm perspective.

Auxiliary Alarm

This record indicates an auxiliary alarm state change on the channel specified. Auxiliary alarms occur when a GETC issues an alarm report, typically from a simulcasted system. The resulting state can be determined by examining the channels display for the record. If there is a W displayed, the channel is assumed to be OK from the auxiliary alarm perspective.

Channel Record

This record indicates a change in the state of the working RF GETCs in the system. It is an informational message logged when the channels became active, and is used to report the status of the system channels after a remote Test Calls and System Manager channel reconfigurations.

System Mgr Reconfig

This is used to report the message sent by System Managers to the Site Controller to change the RF channel configuration at the site.

Console RF/IF

This is used to indicate audio failures from console switches. A failure is indicated with a "W".

RIC Status

This indicates the current state of the system's Repeater Interface Cards (RICs). The record is posted only when there is a state change on one of the RICs; however, to determine which RIC changed state, a previous RIC record or the system's RIC configuration must be known.

Frame Sync Link

This record will appear in the future.

Phone Line

This record indicates a state change on a phone line on the channel specified. Phone line alarms occur when a channel GETC does not detect data coming from a voter in a voted system. The resulting state can be determined by examining the channels display for the record; if there is a W displayed, the channel is assumed to be OK from the phone line alarm perspective.

GETC Synth Fail

This record will appear in the future.

GETC Power Fail

This record will appear in the future.

System Mgr Login

This is an information record only, indicating a System Manager login attempt. If there was a failure, there could be a communications problem between the System Manager and the Site Controller or someone could be attempting to get into the Site Controller's communication line with an incorrect password.

GETC Comm Error

This record logs errors detected by the RS-232C serial multiplexers in the Site Controller. The errors are informational and can indicate a problem with equipment configuration or cabling. Communications ports listed are not always GETC ports. All 32 communication ports could appear in this message. Communication port mapping of Site Controllers is specified in the Site Controller drawing and should be similar to the following:

<u>Port Number</u>	Connected Device
0	System Manager Port
1 to 26	GETC ports - primary downlink
27	Test Unit (TU) if locally connected
28	Alarm Control Unit (ACU)
29	Power Monitor Unit (PMU)
30	Line Interface Controller (LIC)
31	Repeater Interface Controller (RIC)

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APPENDIX E - GLOSSARY

ACU	Alarm Control Unit
All Call	A broadcast call made to all radio units.
Alphanumeric Fields	Accepts all characters (symbols, numbers, and characters) available on the keyboard.
Analog Voice	 A normal FM voice communication made over a EDACS system. A nondigital voice signal.
Cursor	An indicator that shows your current position on the screen.
Date Fields	Accepts dates in the format dd-mmm-yyyy, where: dd = numeric day of the month mmm = first three letters of the month yyyy = four digits of the year. Example: 01-AUG-1993
DEC	Digital Equipment Corporation.
Download	The process of receiving information from the Site Controller.
EDACS	Enhanced Digital Access Communications System
Emergency Call	A call placed over a EDACS system that utilizes special signalling and gives the caller the highest communications priority.
End Channel Number	Defines the last channel number in a channel-number range that is to be included in a System Manager report.
End Duration	The end time in seconds of an activity duration used with System Manager reports.
End Priority	The ending priority number in a queue-priority range to be included in a System Manager report.
End Queue Delay	The end time in seconds of a queue delay used with System Manager reports.
Field	An area on a program screen where data is entered.
GID	See Group ID, GID.
Group	1. A collection of radio users with a common communications requirement. 2. Radio users that are assigned a common group identification number on a EDACS system.
Group ID, GID	A number used by the system to identify a communications group.

Home Group	1. A default communications group assigned to the radio unit. 2. The communications group pro- grammed into a radio, used by the radio, when power is first applied. 3. The communications group programmed into the radio unit that is used when the HOME key is pressed or when the radio unit declares an emergency.
Individual Call	A call placed to a specific radio unit. A telephone interconnect call is a type of individual call.
Individual Data Call	A data call placed to a specific radio unit.
Interconnect	A special call which permits communication between a telephone caller and a radio unit.
Intercon Voice Guard	A telephone interconnect call placed with a radio unit that is using Voice Guard transmissions.
Key of reference	1. The data field (key) the System Manager uses to search through a file. 2. The field that must be en- tered to retrieve a data record from the System Manager database.
LID	See Logical ID, LID
Logical ID, LID	A number used by the system to identify a radio unit.
Menu	A program screen that lists processing choices available to the user.
Numeric Fields	Accepts all whole number (0 thru 9) numeric entries. Fractions or negative numbers are not allowed.
Password	A 12-character word which authorizes the user to access the System Manager.
PMU	Power Monitor Unit
Rotary definition	Defines the rotary hunt sequence used by the telephone equipment when assigning telephone lines. When several lines are used at a site, the telephone equipment will try each line defined in the rotary sequence until a free line (not busy) is found.
Screen	A display generated by a program. Information displayed on the screen of a video display terminal.
Site	The location of the Site Controller and associated equipment.
Site Controller	The main computer and software at the site which directs the operation of a trunked radio system.
Special Call	An EDACS operating mode that includes individual and telephone interconnect calls.
Start Channel No.	Defines the first channel number in a channel-number range that is to be included in a System Manager report.
Start Duration	The start time in seconds of an activity duration used with System Manager reports.
Start Priority	The first priority number in a queue-priority range to be included in a System Manager report.
Start Queue Delay	The start time in seconds of a queue delay used with System Manager reports.

System All Call	A system-wide broadcast call made to all radio units belonging to the radio system.
System Manager	A software package and computer system used to manage the database associated with the EDACS system. The System Manager maintains its own database and communicates with the Site Controller.
TU	Test Unit, a radio-based test device at a radio site.
Upload	The process of sending information from the System Manager to the Site Controller.
User Name	An eight-character alphanumeric designation which identifies the operator to the System Manager.



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This addendum provides user information for entering Channel Assignment data in two mislabeled data fields.

Page 15

Reference: Figure 7A - Database Maintenance: Site Device Definition (Screen 10), Sub-screen 2:4 (shown below).

Problem: When entering *Channel Assignment Parameters* in the *Site Parameters* screen (screen 2:4), time entered for the *Transmission Conversation Limit* is stored in the *Message Conversation Limit* field and vice versa. This is due to the Transmission and Message Conversation Time Limit data field labels being reversed.

Corrective Action: Enter Transmission Conversation Time Limit in the field labeled "Message Conv Limit" and enter the Message Conversation Time Limit into the field labeled "Transmission Conv Limit."



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Reference: Figure 14 - Site Reconfiguration: Call Parameters (Screen 21), or Sub-screen 2:5 (shown below).

Problem: When entering *Channel Assignment Parameters* in the *Site Reconfiguration* screen (screen 2:5), time entered for the *Transmission Conversation Limit* is stored in the *Message Conversation Limit* field and vice versa. This is due to the Transmission and Message Conversation Time Limit data field labels being reversed.

Corrective Action: Enter Transmission Conversation Time Limit in the field labeled "Message Conv Limit" and enter the Message Conversation Time Limit into the field labeled "Transmission Conv Limit."

