



GE Mobile Communications

16^{PLUS}®

SYSTEM MANAGER

SUPERVISOR'S GUIDE FOR VERSION 2.1

TABLE OF CONTENTS

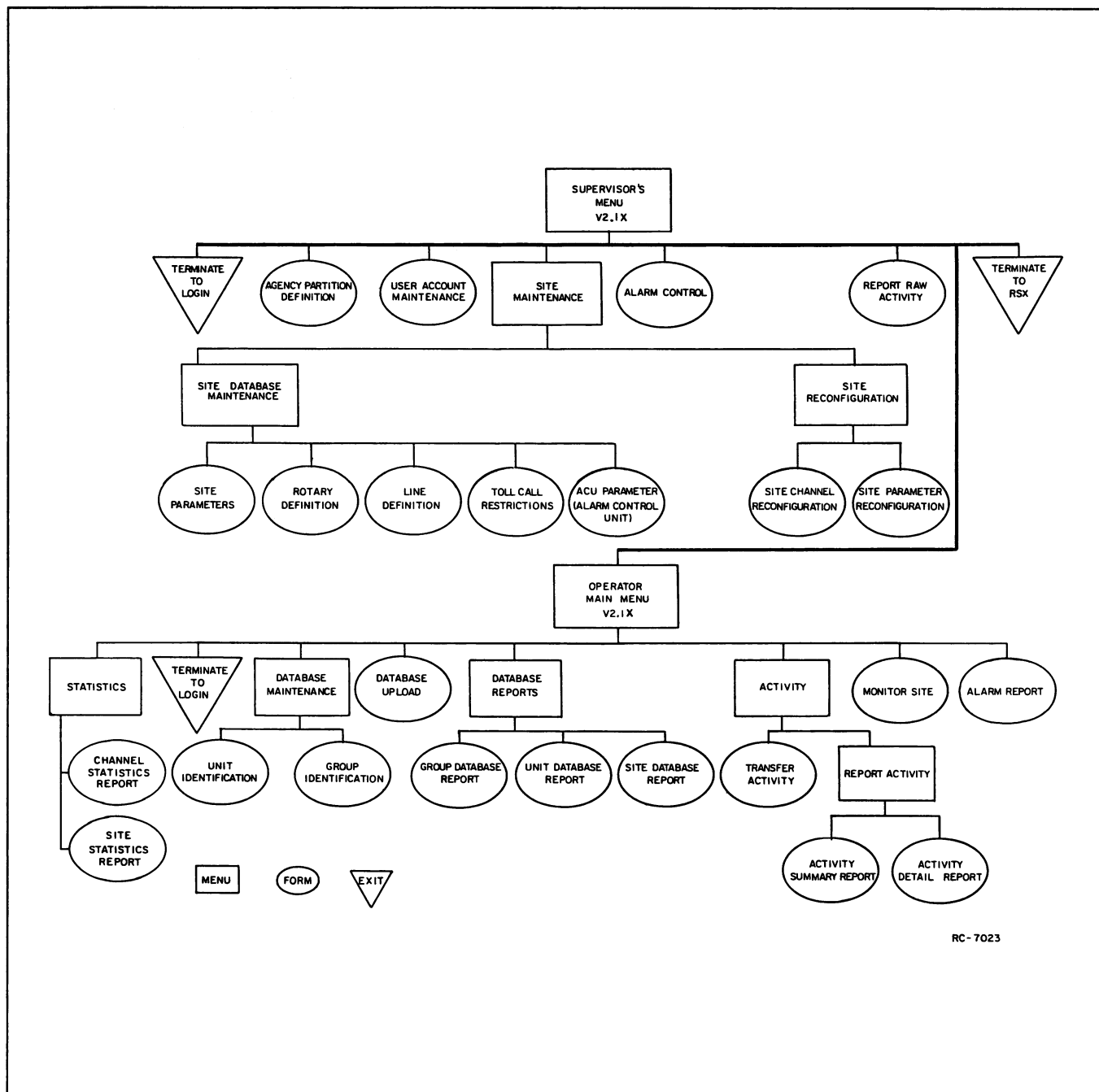
OPERATOR'S GUIDE	LBI-38248
------------------------	-----------

TABLE OF CONTENTS

<u>Section/Paragraph</u>	<u>Page</u>
INTRODUCTION	1
KEYBOARD FUNCTIONS	2
GETTING STARTED	3
MAKING MENU SELECTIONS	3
ENDING A SESSION	4
SUPERVISOR'S MENU	4
AGENCY PARTITION DEFINITION	6
Required Fields.....	7
Function Keys.....	7
USER ACCOUNT MAINTENANCE	8
Creating A New User Account	8
Modifying A User Account	9
Required Fields.....	9
Function Keys.....	9
SITE MAINTENANCE	10
Site Database Maintenance	11
Site Parameters Database Maintenance.....	12
Required Fields.....	13
Interconnect Rotary Database Maintenance	16
Interconnect Line Database Maintenance.....	18
Toll Call Restrictions	20
ACU Parameters	24
Site Reconfiguration.....	26
Site Channel Reconfiguration.....	27
Site Parameter Reconfiguration.....	30
ALARM CONTROL	32
Locating an existing record	32
Changing an existing record.....	32
Field Displays	33
Field Entries.....	33
Field Definitions	33
Function Keys.....	34
ACTIVITY RAW REPORT.....	36
Ordering A Report	37
Field Definitions	37
Function Keys.....	37
SYSTEM MANAGER MESSAGES	38
GLOSSARY	39

INTRODUCTION

This manual has been designed as a reference guide for a supervisor level user of the 16^{PLUS}® System Manager running Version 2.1X software. The manual contains a representation of each menu along with help information for each screen. In addition, information is provided on the keyboard functions and log in procedures. The menu structure for the supervisor and general operator is shown in Figure 1. A separate manual covers general operator functions.



RC - 7023

FIGURE 1 - SYSTEM MANAGER MENU STRUCTURE

KEYBOARD FUNCTIONS

The System Manger uses a standard keyboard (Figure 2). Through the uses of the cursor (arrow) keys and the various function (F) keys, you will be able to enter or change information. A highlighted bar on each screen will show you which field is active and ready to receive information. A blinking cursor within the highlighted area shows you where the next character will be typed.

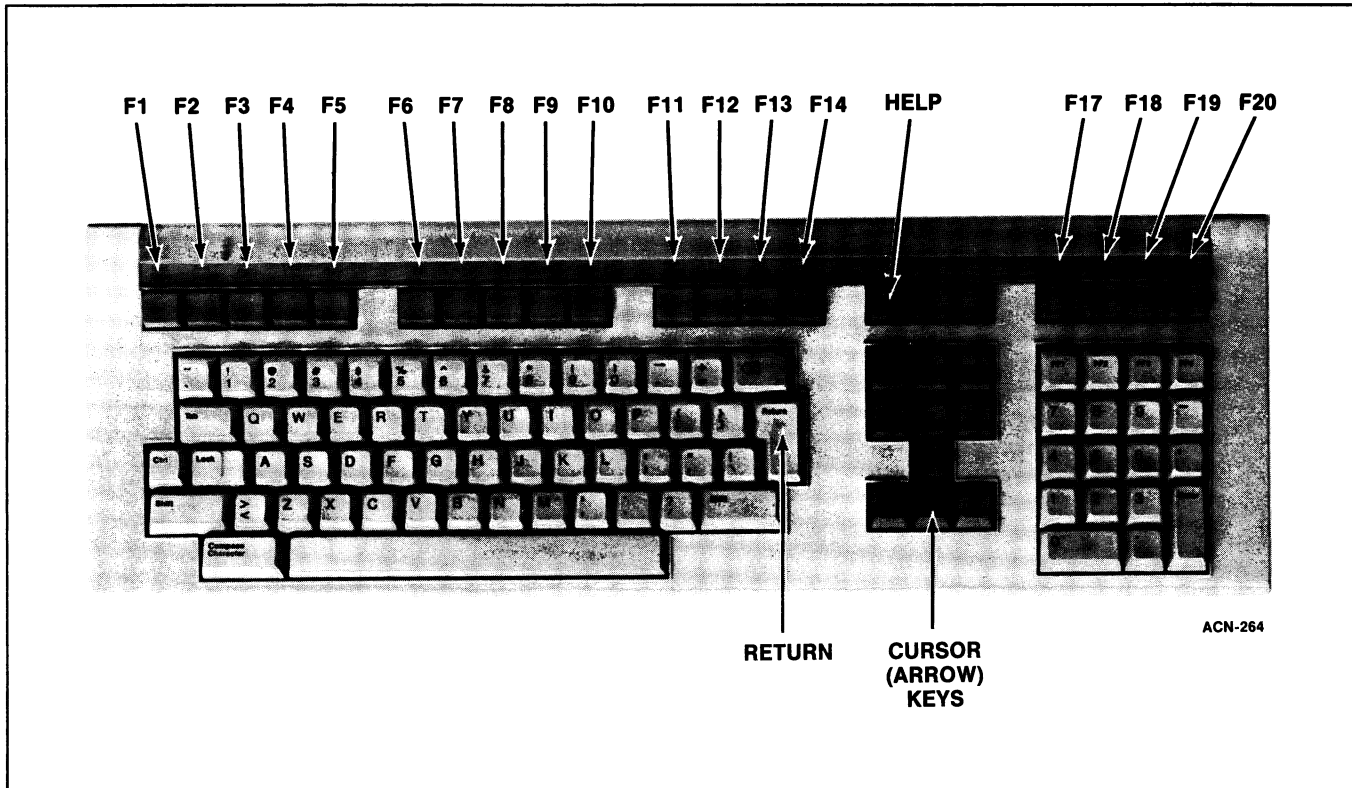


FIGURE 2 - KEYBOARD

RETURN	Enters information into a field and causes the cursor to move to the next field.
↑	Moves to the previous field.
→	Moves the cursor right.
←	Moves the cursor left.
↓	Moves to the next field
Help	Displays help information for the current screen.
F1-F20	The function of these keys are defined on each screen (only active keys are displayed).
Ctrl V	Displays version number of System Manager software.
PF1	Returns the cursor to the first position of the first field (homes the cursor).
>	Moves highlighted bar to next field to the right.
<	Moves highlighted bar to next field to the left.
Ctrl W	Repaints screen.

GETTING STARTED

Once your terminal is turned on, the System Manager Login screen will be displayed with the cursor blinking at the User Name field. When you first log on the System Manager your user name will be SYSMGR and your password will be SYSMGR SUPER.

NOTE

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

GE 16-PLUS TRUNKING SYSTEM SYSTEM MANAGER LOGIN

User Name :

Password :

Log on the System Manager as follows:

1. Type in your user name and press Return.
2. Type in your password and press Return.
3. The Supervisor's Menu will now appear.
4. Verify the System Manager software version matches the version covered in this manual.

MAKING MENU SELECTIONS

Position the cursor next to the desired menu selection using the cursor position (arrow) keys or by entering the number of the menu selection through the keyboard. Press Return when the cursor is next to the desired selection.

ENDING A SESSION

After you have finished using the System Manager, you should exit to the System Manager Login screen. This will terminate the log in and prevent unauthorized use of the System Manager. Log off the System Manager as follows:

1. If the Supervisor's Menu is not displayed, press F6 (EXIT) until the Supervisor's Menu is again displayed.
2. Type 1 (select TERMINATE TO LOGIN from menu) and press Return. The System Manager Login screen will be displayed.

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 will prevent unauthorized use of the System Manager.

SUPERVISOR'S MENU

The Supervisor's Menu allows you to select nine different functions. These functions allow the supervisor to define certain system parameters that control how the radio units will relate to the system, to each other, and how the system will handle different operating events. These functions are accessed when the system is first put on-line and not used extensively after the initial system configuration. Menu selections that are accessible only to the supervisor level user are written in all uppercase characters. Menu selections in mixed-case characters are accessible to the supervisor and general operator level user.

GE 16-PLUS TRUNKING SYSTEM VX.XX SUPERVISORS MAIN MENU

1. TERMINATE TO LOGIN
2. AGENCY PARTITION DEFINITION
3. USER ACCOUNT MAINTENANCE
4. SITE MAINTENANCE
5. ALARM CONTROL
6. REPORT RAW ACTIVITY
7. OPERATOR MAIN MENU
8. TERMINATE TO RSX

Copyright GE Company

Each of the menu selections and following screens are discussed in this manual. After each screen there is a discussion of what type of information must be entered in each field. All information in Required fields must be entered in order for the System Manager to accept information on the screen.

It is recommended that you read through this manual to get familiar with System Manager operation, before making entries on the screens. Remember you must use the Database Upload function in some cases before changes to the database will be sent to the site.

The first selection off the Supervisor Menu (TERMINATE TO LOGIN) returns to the System Manager Login screen but does not exit the System Manager. The last selection (TERMINATE TO RSX) exits the system manager to the RSX operating system. Enter LGN to return to the System Manager from the operating system. Other menu selections are explained in the following sections.

Entries are made through the Agency Partition Definition screen as follows:

1. Enter the Agency Count Number (1-32). This is the number (maximum) of Agencies to be defined in your system.
2. 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. The number of possible sub-fleets is automatically calculated by the System Manager based on the number of fleets and agencies.
3. Press F7 to save the information and press F6 to return to the Supervisor's Menu.

NOTE

The Agency count and Fleet numbers may be changed only if they have no units already assigned in the database (see Operator's Menu functions).

Changes may be made to the Agency Partition Definition screen by entering and saving new data.

Required Fields

Agency Count	Total number of agencies system wide (maximum of 32).
Agency	Agency number (0-31) based on the number entered in Agency Count.
Fleet	Number of Fleets to be defined for the Agency.
Subfleet	Maximum number of subfleets (calculated by the system manager) possible based on number of agencies and fleets.

Function Keys

F6 EXIT	Returns to the Supervisor's Menu.
F7 SAVE	Saves the entered data to the System Manager database.
PREV SCREEN	Displays the previous page of the screen.
NEXT SCREEN	Displays the next page of the screen.

USER ACCOUNT MAINTENANCE

Each user on the System Manager is assigned an account that defines which agency and fleet records the user may access. The supervisor may define and modify user accounts through the User Account Maintenance function off the Supervisor's Menu.

**GE 16-PLUS TRUNKING SYSTEM
SYSTEM MANAGER ACCOUNT MAINTENANCE**

User Name	:		User Id = 0
Password	:		
Alarm Enable (Y/N)	:	N	
User A-F-S Access	:		

F6	F7	F8	F9	F10	F11
EXIT	SAVE	DELETE	NEXT	CLEAR	RESET

New user accounts must be created when the 16^{PLUS} system is first put into operation. Existing accounts may be modified or deleted to accommodate changes in system operation.

Creating A New User Account

Create a new user account as follows:

1. Enter up to a six-character user name in the User Name field.
2. Enter up to a 12-character password to be associated with the account in the Password field.
3. Enter the access restrictions in the User A-F-S fields. Enter an agency number to allow the operator to access all records pertaining to radio units associated with that agency (including all associated fleets and subfleets). Restrict access to a fleet (and associated subfleets) by entering the agency number followed by the fleet number.

4. Press F7 to save the account information.
5. Press F6 to return to the Supervisor's Menu.

NOTE

Change passwords periodically to protect system security.

Modifying A User Account

1. Enter the user name in the User Name field. The recalled account information will appear on the screen.
2. Modify the desired fields (deleting all fields will remove the user account).
3. Press F7 to save the account information.
4. Press F6 to return to the Supervisor's Menu.

Required Fields

User Name	Six-character field to enter the account name.
User ID	A numeric value (read only) calculated by the System Manager. A unique number derived from the user name.
Password	A 12-character field used to assign a password to the user account.
Alarm Enable	For future use.
User A-F-S Access	A set of two fields (one for agency number and one for fleet number). When an agency number is specified, the operator may access all records pertaining to radio units associate with the designated agency and associated fleets and subfleets. When an agency and fleet number are specified, the operator may access all records pertaining to radio units associated with the designated fleet and associated subfleets.

Function Keys

F6 EXIT	Returns to the Supervisor's Menu.
F7 SAVE	Saves the entered data to the System Manager database.
F8 DELETE	Deletes field data from the screen.
F9 NEXT	Searches for the next record in the file based on the last key of reference.
F10 CLEAR	Clears the form for new data entry (erases previous fields on the screen).
F11 RESET	Resets the file selector to the first record in the file. Press F9 to display the record.

SITE MAINTENANCE

The Site Maintenance menu allows the supervisor to define or change site parameters on the System Manager database. These parameters will be used by the Site Controller to configure the 16-PLUS[®] system.

**GE 16-PLUS TRUNKING SYSTEM VX.XX
SITE MAINTENANCE**

- 1. SUPERVISOR MAIN MENU**
- 2. SITE DATABASE MAINTENANCE**
- 3. SITE RECONFIGURATION**

Copyright GE Company

The Site Database Maintenance selection is used to make initial or permanent changes in system configuration. Site reconfiguration is used to make immediate temporary changes to the already configured site database.

Site Database Maintenance

Site Database Maintenance generates a menu that displays all the functions pertaining to establishing the default site database. This database is used by the Site Controller to configure the communication system.

**GE 16-PLUS TRUNKING SYSTEM VX.XX
SITE DATABASE MAINTENANCE**

- 1. SITE MAINTENANCE MENU**
- 2. SITE PARAMETERS**
- 3. ROTARY DEFINITION**
- 4. LINE DEFINITION**
- 5. TOLL CALL RESTRICTIONS**
- 6. ACU PARAMETERS**

Copyright GE Company

Site Parameters Database Maintenance

The Site Parameters Database Maintenance function is used to define the default channel configurations for each site along with other default characteristics. These default values will be used by the Site Controller when first powered up or until later changes are made to the database.

GE 16-PLUS TRUNKING SYSTEM SITE PARAMETERS DATABASE MAINTENANCE			
Site Number	:		Site Name:
System Manager Phone Number:			
Site Phone Number	:		
Site Password	:		
Channel#:	11111111112	Channel#:	11111111112
RF:	12345678901234567890	Channel#:	12345678901234567890
Inter:	NNNNNNNNNNNNNNNNNNNN	Modem :	NNNNNNNNNNNNNNNNNNNN
Data:	NNNNNNNNNNNNNNNNNNNN	Voice :	NNNNNNNNNNNNNNNNNNNN
Backup Downlink Channel :	N	Hang Time(1 second increments)	
Conversation Limit :	1	Interconnect:	0
(10 second increments)		Emergency:	0
<div style="display: flex; justify-content: space-around;"> F6 EXIT F7 SAVE F8 DELETE F9 NEXT F10 CLEAR </div>			

Creating a Record

1. Enter a unique User Name or Site Number. The word CREATE will appear in the upper right corner of the screen.
2. Enter all required fields.
3. Press F7 to save the screen.

Locating an existing record

1. Enter the Site Number or Site Name.
2. Press Return.

NOTE

If the existing record cannot be found, the closest record (in logical order) will be displayed.

Modifying an existing record

1. Locate the record. The word MODIFY will appear in the upper right corner of the screen.
2. Make desired changes on the screen.
3. F7 to save the screen.

Deleting a record

1. Locate the record. The word MODIFY will appear in the upper right corner of the screen.
2. Press F8 to delete all entries from the screen.

Required Fields

Site Number	Numeric designation of the site.
Site Name	Up to an eight-character alphanumeric site name.
Site Password	Up to a 12-character password (used to access site System Manager) assigned to the site. This password must match the site controller password.
Channel #	Channel number (1-20) headings for the configuration fields directly below.
RF	Designates which channels are to be working channels and which channel is the control channel. Enter C in one position to designate the control channel. Enter Y (designates working channel) under all remaining channels. Enter N (default) under all unused channels.
Inter	Designates which channels are equipped to handle telephone interconnect. Enter Y under channels that are equipped for telephone interconnect or N (default) under unused channels and channels that are not equipped for interconnect.
Data	Designates which channels are equipped to handle data transmissions from mobile data terminals. Enter Y under channels equipped to handle data transmissions or N (default) under unused channels and channels not equipped for data transfers.
Modem	ModemDesignates which channels have modems on the downlink to the site. Enter Y under channels that used modems on the downlink or N (default) under channels that are unused or are not modem equipped.
Voice	Designates which channels are equipped to handle VoiceGuard [®] transmissions. Enter Y under channels that handle VoiceGuard or N (default) under unused channels and channels that are not VoiceGuard equipped.
Backup Downlink Channel	Indicates the presences of a backup downlink to the site. Enter Y if a backup downlink is present or N (default) if no downlink is available.
Conversation Limit	Indicates the conversation limit (allowed time between PTTs) on transmissions made through the site repeaters. Enter the number (defaults to one) of 10-second intervals for the conversation limit.
Hang Time	Length of time in seconds that the channel remains assigned after a channel drop has been received. Heading for the two fields that follow.

Interconnect	Hang time for telephone interconnect calls. Enter the number of seconds (defaults to zero) allowed for transmission made with telephone interconnect.
Emergency	Hang Time for all Emergency call transmissions. Enter the number of seconds of hang time for channel assignments made when an emergency has been declared through the system.

Optional Fields

System Manager	Telephone number* (up to 20 digits) of the System Manager at the designated site. This field is only used if a dial-up line is available to the remote System Manager.
Site Phone Number	Telephone number* (up to 20 digits) of the Site Controller at the designated site. This field is only used if a dial-up line is available to the remote Site Controller.

- * The telephone number must contain all digits required to dial. The digits must have no spaces between them and only numeric characters are allowed. For example, the phone number 1 (800) 555-1212 would be entered as 18005551212.

Function Keys

F6 EXIT	Returns to the Site Database Maintenance Menu.
F7 SAVE	Saves the entered data to the System Manager data base.
F8 DELETE	Deletes the displayed data.
F9 NEXT	Searches for the next record in the file based on the last key field of reference.
F10 CLEAR	Clears all fields on the screen.

(This page intentionally left blank)

Interconnect Rotary Database Maintenance

Rotary definition designates the rotary hunt sequence used by the telephone equipment when placing an out-bound call. Up to 15 rotary definitions can be used at each site in the 16-PLUS® system. These definitions are used when assigning telephone lines to radio units programmed for telephone interconnect operation. A maximum of 255 telephone lines may be used at each site.

Each rotary definition may 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 will try (in sequence) each line specified in the rotary definition assigned that unit until a free line is found. If a free line is not found, the originating unit will receive a busy signal.

GE 16-PLUS TRUNKING SYSTEM
INTERCONNECT ROTARY DATABASE MAINTENANCE

Site Number:

Site Name:

Page

Line Selection

Rotary Number

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

1

2

3

F6
EXIT

F7
SAVE

F9
NEXT

F10
CLEAR

PREV
SCREEN

NEXT
SCREEN

Each site has five pages to display the rotary definitions. The line fields default to 0. Valid lines are 1-255. Position the cursor to the desired line field, overwrite the field and press the arrow down key or the return key to move to the next field. When the entries are completed, press F7.

NOTE

Changes must be transferred to the Site Controller using the Database Upload function (off the Operator's Menu) to become effective. If the Database Upload is not used, the Site Controller will implement the change when it is reset.

Creating a new record

1. Enter the Site Number or Site Name of the site you wish to create a new interconnect rotary database.
2. Press Return.
3. Enter the rotary definitions on the screen.
4. Press F7 to save the record to the System Manager database.
5. Send the changes to the Site Controller using the Database Upload function off the operator's menu.

Locating an existing record

1. Enter the desired Site Number or Site Name. If the record cannot be located, the closest record in logical order will be displayed.
2. Press Return.

Changing an existing record

1. Locate the record.
2. Make the desired changes.
3. Press F7 to save the record to the System Manager database.
4. Send the changes to the Site Controller using the Database Upload function off the operator's menu.

Field Definitions

Site Number	Numeric designation of the site.
Site Name	Up to an eight-character alphanumeric site name.
Rotary Number	A logical number assigned by the System Manager for each rotary definition.
Line Selection	Column heading for each telephone line assigned to a rotary definition. Indicates the sequence the lines will be tried in the rotary hunt.

Function Keys

F6 EXIT	Exits to the Site Database Maintenance Menu.
F7 SAVE	Saves the entered data to the System Manager database. Changes are not sent to the Site Controller.
F9 NEXT	Searches for the next record in the file based on the last key field of reference.
F10 CLEAR	Clears all fields on the screen.
PREV SCREEN	Displays the previous page.
NEXT SCREEN	Displays the next page.

Interconnect Line Database Maintenance

The Line Definition function is used to tell the system the characteristics of the telephone lines available at the site. This screen allows assigning inbound telephone lines to specific radio units in the system. There are 16 screen pages which allow assignments to be made to up to 255 telephone lines at the site.

GE 16-PLUS TRUNKING SYSTEM
INTERCONNECT LINE DATABASE MAINTENANCE

Site Number:

Site Name:

Page

Line Number	Pulse Dial	Line Available	Line Dedication	Line Number	Pulse Dial	Line Available	Line Dedication
1				2			
3				4			
5				6			
7				8			
9				10			
11				12			
13				14			
15				16			

F6
EXIT

F7
SAVE

F9
NEXT

F10
CLEAR

PREV
SCREEN

NEXT
SCREEN

NOTE

Changes must be transferred to the Site Controller using the Database Upload function (off the Operator's Menu) to become effective. If the Database Upload is not used, the Site Controller will implement the change when it is reset.

Creating a new record

1. Enter the Site Number or Site Name.
2. Press Return.
3. Enter the line characteristics for each telephone line in the system.
4. Press F7 to save the data to the System Manger database. Changes are not sent to the Site Controller.
5. Send the changes to the Site Controller using the Database Upload function off the operator's menu.

Locating an existing record

1. Enter the desired Site Number or Site Name.
2. Press Return. If the record cannot be located the closest record in logical order will be displayed.

Changing an existing record

1. Locate the record.
2. Make the desired changes on the screen.
3. Press F7 to save the data to the System Manger database.

Required Fields

Pulse Dial	Defines the dial characteristics for each telephone line in the system. Enter Y for telephone lines that accept pulse dialing or N (default) for lines that accept tone (DTMF) dialing.
Line Available	Defines for the system which telephone lines are available for use. Enter Y for telephone lines that are available or N for lines that are not available.
Line Dedication	Defines the radio unit the system will ring if an incoming telephone call is detected on this line. Enter the radio unit logical ID (LID) for the radio unit the system should ring if an incoming call is detected on the line.

Function Keys

F6 EXIT	Returns to the Site Database Maintenance Menu.
F7 SAVE	Saves the entered data to the System Manager database. Changes are not sent to the Site Controller.
F9 NEXT	Searches for the next record in the file based on the last key field of reference.
F10 CLEAR	Clears all data entries on the displayed screen.
PREV SCREEN	Displays the previous page.
NEXT SCREEN	Displays the next page.

Toll Call Restrictions

The Toll Call Restrictions function is used to identify which telephone call restrictions are assigned to various levels of radio users. Up to 16 restriction levels may be set up using this screen.

GE 16-PLUS TRUNKING SYSTEM INTERCONNECT TOLL CALL RESTRICTIONS	
Site Number:	
Site Name :	
Codes 11111	Codes 11111
Digits 0123456789012345	Digits 0123456789012345
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
F6 EXIT	F7 SAVE
F9 NEXT	F10 CLEAR

NOTE

Changes must be transferred to the Site Controller using the Database Upload function (off the Operator's Menu) to become effective. If the Database Upload is not used, the Site Controller will implement the change when it is reset.

Creating a new record

NOTE

The digit list must be entered from the most restrictive (level 1) to the least restrictive (16). The following wild cards may be used in the Digits field: X may be used to represent any digit 0-9 and a space may be used to represent any DTMF code (0-9, *, and #)

1. Enter the Site Number or Site Name.
2. Press Return.

3. Enter the toll call restrictions for each user level. Level 1 is the most restrictive. Four periods (default value) must be entered in all unused levels.
4. Press F7 to save the data to the System Manger database. Changes are not sent to the Site Controller.
5. Send the changes to the Site Controller using the Database Upload function off the operator's menu.

Locating an existing record

1. Enter the desired Site Number or Site Name.
2. Press Return. If the record cannot be located, the closest record in logical order will be displayed.

Changing an existing record

1. Locate the record.
2. Make the desired changes on the screen.
3. Press F7 to save the data to the System Manger database. Changes are not sent to the Site Controller.
4. Send the changes to the Site Controller using the Database Upload function off the operator's menu.

Field Definitions

The following fields are available on the Interconnect Toll Call Restrictions screen. The vertical line of numbers (1-16) just below and to the left of the Digits heading are telephone call restriction levels. Level one is most restrictive and level 16 is the least restrictive. When call restrictions are checked by the Site Controller, the table is scanned from level one to level 16. The first matching restriction in the table is used for call access. Place the most restrictive entries at level one moving to the least restrictive at level 16.

For example, if you wish to restrict one user to no toll call access, but you wish to permit another user to make toll calls only to the 518 area you would list the most restrictive entry first.

	Digits	Codes
		0 1 2 3 4 5 6
1	1518	Y Y N N N N N
2	1XXX	Y N N N N N N

Now unit 0 is permitted access to the 518 area code and any 1 plus number. Unit 1 is permitted access to the 518 area code, but cannot access any other toll numbers.

Site Number Numeric designation of the site.

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

Digits The first four digits of the telephone number followed by a 16-position code field and preceded by a restriction level number. Enter the first four digits of the telephone number on which restrictions are to be based. The following wild cards may be used in the Digits field: X may be used to represent any digit 0-9 and a space may be used to represent any DTMF code (0-9, *, and #). All remaining positions should be filled with four periods.

Codes A 16-position field which indicates which telephone call restrictions apply to each radio unit. The code heading (0-15) corresponds to the code assigned to each radio unit (defined on another screen) that can make telephone interconnect calls. Enter a Y in this field under the code corresponding to the unit if the unit is permitted to make telephone calls with the first four digits as indicated. Enter N (default) under the unit code column if the radio unit may not make telephone calls to phone numbers starting with the digits indicated.

Function Keys

F6 EXIT	Returns to the Site Database Maintenance Menu.
F7 SAVE	Saves the entered data to the System Manager database. Changes are not sent to the Site Controller.
F9 NEXT	Searches for the next record in the file based on the last key field of reference.
F10 CLEAR	Clears all data entries on the displayed screen.

(This page intentionally left blank)

ACU Parameters

The ACU (Alarm Control Unit) screen displays a table of the 32 alarms associated with each site. The table allows you to define how each alarm will be interpreted.

GE 16-PLUS TRUNKING SYSTEM
ACU PARAMETERS

Site Number:

Site Name:

Page

E A M
n c a
a t j
b o
l H r
e i

Alarm Name

1
3
5
7

E A M
n c a
a t j
b o
l H r
e i

Alarm Name

2
4
6
8

F6
EXIT

F7
SAVE

F9
NEXT

F10
CLEAR

PREV
SCREEN

NEXT
SCREEN

NOTE

Changes must be transferred to the Site Controller using the Database Upload function (off the Operator's Menu) to become effective. If the Database Upload is not used, the Site Controller will implement the change when it is reset.

Locating an existing record

1. Enter the desired Site Number or Site Name.
2. Press Return. If the record cannot be located, the closest record in logical order will be displayed.

Changing an existing record

1. Locate the record.
2. Make the desired changes on the screen.
3. Press F7 to save the data to the System Manager database. Changes are not sent to the Site Controller.
4. Send the changes to the Site Controller using the Database Upload function off the operator's menu.

Field Definitions

Site Number	Numeric designation of the site.
Site Name	Up to an eight-character alphanumeric site name.
Page	Number of the screen page currently displayed.
Alarm Name	Alphanumeric field for entering the alarm name.
Enable	Designates which alarm lines are enabled for alarm reporting. Enter Y in this column next to the alarms you wish to enable for alarm reporting. Enter N (default) in this column next to the alarms you wish to disable or alarms that are not used.
Act Hi	Designates which enabled alarm lines are to be designated as active high alarms. Enter Y in this column next to all enabled alarms where a low to high transition indicates an alarm condition. Enter N in this column next to all enabled alarms where a high to low transition indicates an alarm condition.
Major	Designates which alarms are to be treated as major alarms (immediate reporting and logging). Enter Y in this column next to all enabled alarms that are to be treated as major alarms. Enter N in this column next to all enabled alarms that are to be treated as minor alarms (alarm logged, but not reported).

Function Keys

F6 EXIT	Returns to the Site Database Maintenance Menu.
F7 SAVE	Saves the entered data to the System Manager database. Changes are not sent to the Site Controller.
F9 NEXT	Searches for the next record in the file based on the last key field of reference.
F10 CLEAR	Clears all data entries on the displayed screen.
PREV SCREEN	Displays the previous page.
NEXT SCREEN	Displays the next page.

Site Reconfiguration

Site Reconfiguration generates a menu that displays all the functions pertaining to reconfiguring the default site database. This database is used by tell the Site Controller how to configure the communication system.

**GE 16-PLUS TRUNKING SYSTEM VX.XX
SITE RECONFIGURATION**

- 1. SITE MAINTENANCE MENU**
- 2. SITE CHANNEL RECONFIGURATION**
- 3. SITE PARAMETER RECONFIGURATION**

Copyright GE Company

Site Channel Reconfiguration

This function allows you to modify the default database for the site. Changes made on this screen are sent immediately to the Site Controller.

GE 16-PLUS TRUNKING SYSTEM SITE CHANNEL RECONFIGURATION			
Site Number:		Site Name:	
	Database Configuration	Send	Site Configuration
Channel Number:	1111111112		1111111112
	12345678901234567890		12345678901234567890
RF	:		N
Modem	:		N
Interconnect	:		N
Voice Guard	:		N
Data	:		N
Perform Test Calls Upon RF Channel Reconfiguration? : Y			
F6 EXIT	F9 NEXT	F10 CLEAR	F11 SEND

Locating an existing record

1. Enter the desired Site Number or Site Name.
2. Press Return. If the record cannot be located, the closest logic record will be displayed.

Changing an existing record.

1. Locate the record.
2. Make the desired changes on the screen.
3. Press F11 to send the marked changes to the Site Controller.

Field Definitions

Site Number	Numeric designation of the site.
Site Name	Up to an eight-character alphanumeric site name.
Channel #	Channel number (1-20) headings for the configuration fields directly below. Changeable fields are located under the Database Configuration heading.
RF	Designates which channels are to be working channels and which channel is the control channel. Enter C in one position to designate the control channel. Enter Y (designates working channel) under all remaining channels. Enter N (default) under all unused channels. Changeable fields are located under the Database Configuration heading.
Modem	Designates which channels have modems on the downlink to the site. Enter Y under channels that used modems on the downlink or N (default) under channels that are unused or are not modem equipped.
Interconnect	Designates which channels are equipped to handle telephone interconnect. Enter Y under channels that are equipped for telephone interconnect or N (default) under unused channels and channels that are not equipped for interconnect.

Voice Guard	Designates which channels are equipped to handle VoiceGuard transmissions. Enter Y under channels that handle VoiceGuard or N (default) under unused channels and channels that are not VoiceGuard equipped.
Data	Designates which channels are equipped to handle data transmissions from mobile data terminals. Enter Y under channels equipped to handle data transmissions or N (default) under unused channels and channels not equipped for data transfers.
Perform Test	Instructs the Test Unit (TU) to perform test calls on new channel configuration. Enter Y if you want the TU to perform an immediate test on the reconfigured channels. Enter N if you want the channels reconfigured and the TU to perform its normal testing sequence.
Database Configuration	Heading for the Site Parameters Database that is stored in the System Manager.
Send	Heading for the Send column. Tells the System Manager which channel configurations to send to the Site Controller when the send (F11) key is pressed. Enter Y in rows where you want the changed data sent to the Site Controller. Enter N in rows where you do not want to send the new data.
Site Configuration	This is the existing channel configuration read from the Site Controller.
Function Keys	
F6 EXIT	Returns to the Site Reconfiguration Menu.
F9 NEXT	Searches for the next record in the file based on the last key field of reference.
F10 CLEAR	Clears all data entries on the displayed screen.
F11 SEND	Sends the marked channel configurations to the Site Controller. Only configurations with a Y entered in the Send column will be sent.

Site Parameter Reconfiguration

This function allows you to modify the default hang and drop times for the site repeaters. Changes made on this screen are sent immediately to the Site Controller.

GE 16-PLUS TRUNKING SYSTEM
SITE PARAMETER RECONFIGURATION

Site Number:

Site Name :

Database Configuration

Send

Site configuration

Conversation Limit :
(10 second increments)

N

Hang Time (1 second increments) :

N

Interconnect :

N

Emergency :

N

F6
EXIT

F9
NEXT

F10
CLEAR

F11
SEND

Locating an existing record

- 1. Enter the desired Site Number or Site Name.
- 2. Press Return. If the record cannot be located, the closest record in logical order will be displayed.

Changing an existing record

- 1. Locate the record.
- 2. Make the desired changes on the screen.
- 3. Press F11 to send the marked changes to the Site Controller.

Field Definitions

Database	Heading for the Site Parameters Database that is stored in the System Manager.
Send	Heading for the Send column. Tells the System Manager which configurations to send to the Site Controller when the send (F11) key is pressed. Enter Y in rows where you want the changed data sent to the Site Controller. Enter N in rows where you do not want to send the new data.
Site	This is the existing configuration read from the Site Controller.
Conversation	Indicates the conversation limit (allowed time between PTTs) on transmissions made through the site repeaters. Enter the number (defaults to one) of 10-second intervals for the conversation limit.
Hang Time	Length of time in seconds that the channel remains assigned after a channel drop has been received. Heading for the two fields that follow.
Interconnect	Hang time for telephone interconnect calls. Enter the number of seconds (defaults to zero) allowed for transmission made with telephone interconnect.
Emergency	Hang Time for all Emergency call transmissions. Enter the number of seconds of hang time for channel assignments made when an emergency has been declared through the system.

Function Keys

F6 EXIT	Returns to the Site Reconfiguration Menu.
F9 NEXT	Searches for the next record in the file based on the last key field of reference.
F10 CLEAR	Clears all data entries on the displayed screen.
F11 SEND	Sends the marked configurations to the Site Controller. Only configurations with a Y entered in the Send column will be sent.

ALARM CONTROL

The Alarm Control screen allows you to tell the system how you want alarms associated with each channel to be reported. Changes made to the screen must be saved using the F7 key.

NOTE

The screen is not automatically updated (refreshed).

Locating an existing record

1. Enter the desired Site Number or Site Name.
2. Press Return. If the record cannot be located, the closest record in logical order will be displayed.

Changing an existing record

1. Locate the record.
2. Press F11 to enter the latched state.
3. Make the desired changes on the screen.
4. Press F7 to save the current alarm control settings.

GE 16-PLUS TRUNKING SYSTEM ALARM CONTROL	
Chnl	1111111112 12345678901234567890

PMU	
Poll	
TU	
RIC	
Alarm#	111111111222222222333 12345678901234567890123456789012

ACU	
Downlink:	Antenna Feed:
F6 EXIT	F7 SAVE
F9 NEXT	F10 CLEAR
F11 LATCHED	F12 CURRENT

Field Displays

The following are displays for the alarm control fields.

- A Alarm is active on the device for this channel, and alarm notification is enabled.
- a Alarm active on the device for this channel, and alarm notification is disabled.
- D Alarm is not active on the device for this channel, but alarm notification is enabled.
- Alarm is not active on the device for this channel, and alarm notification is disabled.

Field Entries

- E Enables a disabled alarm (d in field) for alarm reporting.
- D Disable alarm notification.
- R Resets an active alarm (A in field).

NOTE

Alarms may be Enabled, Disabled, or Reset only in the latched state. Changes made to the alarms must be saved with the F7 key.

Field Definitions

PMU	The alarm control states of Power Monitor Unit (PMU) alarms associated with each channel.
Poll	The alarm control states of the polls made of the channel GETC shelves.
TU alarms	The alarm control states of the Test Unit (TU) alarms associated with each channel.
RIC alarms	The alarm control states of the Repeater Interconnect Controller (RIC) alarms associated with telephone interconnect channels.
ACU alarms	The alarm control states of the 32 Alarm Control Unit (ACU) alarms.
Downlink alarm	The alarm control state of the poll to the downlink GETC.
Antenna Feed	The alarm control state of the Power Monitor Unit (PMU) rf forward and reverse power sensors at the antenna feed.

Function Keys

F6 EXIT	Returns to the Supervisor's Menu.
F7 SAVE	Saves the entered data to the System Manager database.
F9 NEXT	Searches for the next record in the file based on the last key of reference.
F10 CLEAR	Clears all data entries on the displayed screen.
F11 LATCHED	Displays the latched alarm state as stored by the System Manager.
F12 CURRENT	Displays the current alarm state as reported by the site controller. No alarm changes are allowed when you are in the Current state.

(This page intentionally left blank)

ACTIVITY RAW REPORT

The activity raw report file is the unprocessed activity history of the Site Controller for a 24-hour time period. Raw activity data is recorded at the Site Controller and periodically sent down to the System Manager for storage. This report will be automatically purged from the system once a day.

GE 16-PLUS TRUNKING SYSTEM ACTIVITY RAW REPORT

Specify File directory, Month, Day, Site Number, and Output Device.

File Directory :
Month :
Day :
Site :

Output to Printer or Screen (P/S) :

F6
EXIT

F11
EXECUTE

NOTE

Raw report files will be purged by the system unless saved off the default account.

Ordering A Report

1. Enter the device and account name in the File Directory field. The format is DEVICE [ACCOUNT]. This field may be left blank if the report has not been saved off to a new device/account.
2. Enter the month (1-12) in the Month field for the desired activity report.
3. Enter the day (1-31) in the Day field for the day of the desired activity report.
4. Enter the site number (in the Site field) for the activity report.
5. Select the output device for the report by entering P for printer or S for screen in the Output to Printer or Screen (P/S) field.
6. Press F11 to execute the report request. If a report can be generated, the message "Writing activity to report file." will appear followed by the report printed to the screen or printer.

Field Definitions

File Directory	Device and account information for locating a stored report file. This information is not needed if the report has not been saved off the default account. Command format is: DEVICE [ACCOUNT]. For example, DU1: [SMACT] for the SMACT account on disk drive 1.
Month	Month (1-12) the activity report was downloaded to the System Manager. This field is used by the System Manager to locate the report file (part of file name).
Day	Day (1-31) the activity report was downloaded to the System Manager. This field is used by the System Manager to locate the report file (part of file name).
Site Number	Number of the site that you want the activity report on.
Output device	Selects the printer or screen as the output device for the report.

Function Keys

F6 EXIT	Exits to the Supervisor's Menu.
F11 EXECUTE	Executes the report request.

SYSTEM MANAGER MESSAGES

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

Invalid Fleet Number -- Reenter a valid fleet number.

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

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.

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

Unable To Modify Value -- Changing this entry would effect 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 the communications link to the Site Controller. Also, check that the Site Controller is running (system not in failsoft).

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).

GLOSSARY

Cursor	An indicator that shows your current position on the screen.
Download	The process of receiving information from the Site Controller.
Field	An area on a program screen where data is entered.
Key of reference	1) The data field (key) the System Manager uses to search through a file. 2) The field that must be entered to retrieve a data record from the System Manager database.
Menu	A program screen that lists processing choices available to the user.
Password	A 12-character word which authorizes the user to access the System Manager.
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.
System Manager	A software package and computer system used to manage the database associated with the 16-PLUS [®] system. The System Manager maintains its own database and communicates with the Site Controller.
Upload	The process of sending information from the System Manager to the Site Controller.
User Name	An eight-character designation which identifies the operator to the System Manager.



GE Mobile Communications

General Electric Company
Lynchburg, Virginia 24502

Printed in U.S.A.

