

# GIGAswitch/FDDI System

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## Out-of-Band Management (OBM) Guide

Part Number: EK-GOBMG-MG .B01

This guide describes the features available in the GIGAswitch/FDDI System OBM facility.

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# Preface

## Intended Audience

This guide is intended for network managers who will manage a GIGAswitch/FDDI System in an extended local area network (LAN).

## Structure of This Guide

This guide describes the features available in the GIGAswitch/FDDI System OBM facility. It is organized to reflect the menu options available on various OBM screens.

## Conventions

The following conventions are used in this guide:

**Bold typeface** A word or phrase is being emphasized. It also indicates MIB objects and filter disposition.

*Italic typeface* The complete titles of manuals.

Return You press the return key on the keyboard.

Ctrl/O You must hold down the key labeled Ctrl while you press another key or a pointing device button.



---

## Out-of-Band Management (OBM)

The GIGAswitch/FDDI Out-of-Band Management (OBM) facility provides a convenient way to observe and (in some cases) set certain system operating parameters and data. The OBM facility is a menu-based system that employs an ASCII terminal connected (directly or through a modem) to the CLK card of the GIGAswitch/FDDI System.

Some important OBM features referenced in other GIGAswitch/FDDI Guides are described in the chapters indicated in the table below.

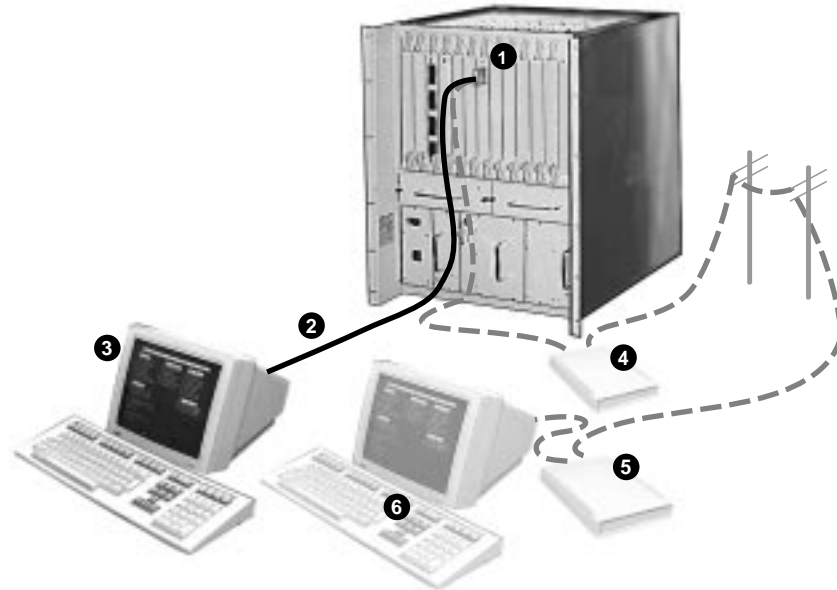
Features	Chapter
Showing box configuration	2
Showing slot configuration	2
Rebooting into diagnostic mode	2
Designating privileged ports	3
Designating bootserver ports	3
Setting IP addresses	3
Setting the OBM password	7

---

## OBM Terminal

The OBM terminal connects directly, or through a modem, to the OBM port on the CLK card. A terminal, with modems meeting CCITT V.24, V.28, or V.32 standards, and associated cables are required. Figure 1–1 shows how to connect the OBM terminal.

**Figure 1–1 Connecting the OBM Terminal**



mkv-0281-51

Number	Function
①	OBM port
②	Cables, part numbers BC22D-xx <sup>1</sup> (xx = cable length in feet) (EIA RS-232 connector)
③	OBM terminal—9600 baud
④	Modem—9600 baud
⑤	Remote modem
⑥	Remote OBM terminal

---

<sup>1</sup>BC22D cable meets Class A FCC requirements

---

Table 1–1 list the steps required to connect the OBM terminal and start the OBM session.

**Table 1–1 Start OBM**

Step	Action
1	Locate the OBM port, the cables, and the OBM terminal (or the modem, remote modem, and remote OBM terminal).
2	Connect the RS-232 cable from the terminal (or modem) to the OBM port.
3	Install the remote modem and the remote OBM terminal, if needed.
4	Set up the terminal as follows: 9600 baud rate 8 bits, no parity 1 stop bit
5	Set the security switch to allow OBM access (position 2, 3, or 4).
6	Press <b>Ctrl/D</b> to get the CLK> prompt.
7	Press <b>Ctrl/O</b> to start the OBM session.

## **LAT Connectivity**

The OBM port may also be connected to a LAT port for remote OBM access. The LATserver must pass escape sequences.

When connecting to a terminal server with remote LAT access, set LATserver port autobaud (disable) and access (remote).

Note the following restrictions:

- Cannot use the DECserver 90L or 90L+
- Cannot use the DECserver 90TL or 90M

---

## OBM Menus

OBM functions are performed via a series of menus which appear on the OBM terminal. Each menu has a name and a list of choices, preceded by numbers. The user selects the number of the desired choice.

The following conventions are used:

- A choice which ends with the word "menu" results in an additional menu of choices.
- A choice that begins with the word "Show" results in a display, followed by the same menu (or a subset, in the case of the Main Menu).
- A choice that begins with "Show/set" results in a display, followed by a menu of choices related to that display.
- All other choices result in some action, perhaps preceded by input requests or a warning.

When multiple input values are requested in a single prompt the values supplied should be separated by spaces.

When one or more port number is required as one of the inputs, the FPPN numbering scheme should be used in one of the following formats:

single port (10.4)  
list of ports (10.1,10.2,12.2,14.1)  
range of ports (10.1 - 12.4)  
"all" - to indicate all ports

- The final choice for all menus (except for the Main Menu) returns to a previous menu—often to the Main Menu. The final choice in the Main Menu ends the OBM session.
- Pressing <CR> causes a previous menu or the main menu to reappear, except as indicated below.
- A display that cannot be shown on a single screen will have "(<cr>=More)" following the prompt. Press <CR> to continue the display.
- **Ctrl/D** will abort the OBM session at any time.

---

## Main Menu

The first menu presented by OBM is called the Main Menu. The Main Menu consists of the System, Port, Bridge, MIBs, Extensions and OBM sections.

### Main Menu

- |            |   |
|------------|---|
| System     | 1. Show box configuration                   |
|            | 2. Show/set slot configuration              |
|            | 3. Show/set system time                     |
|            | 4. Clear management memory                  |
|            | 5. Reboot menu                              |
| Port       | 6. Show LAN address assignments             |
|            | 7. Show/set privileged and bootserver ports |
|            | 8. Show/set delayed ports                   |
|            | 9. IP menu                                  |
| Bridge     | 10. Bridge menu                             |
| MIBs       | 11. MIB viewer menu                         |
| Extensions | 12. Extended options menu                   |
| OBM        | 13. OBM menu                                |
|            | 14. End OBM session                         |

Choice:

The six sections of the main menu are described in Chapters 2 through 7.



---

## System Menu

This chapter describes the choices that can be made from the System section of the main menu.

- System
1. Show box configuration
  2. Show/set slot configuration
  3. Show/set system time
  4. Clear management memory
  5. Reboot menu

---

## Show Box Configuration

This choice displays the status of the power and cooling modules, and the key switch, as well as the range of LAN addresses unique to this box. The System section of the main menu is redisplayed along with the status information.

### GIGAswitch Box Configuration

Power System Controller	ok	Hardware rev: C01	Firmware rev: 1.0
Cabinet Temperature	normal		
Left Fan	ok		
Right Fan	ok		
Left Front-end Unit	ok	Power source: AC	
Right Front-end Unit	not present		
Keyswitch Position	4 (world access)		
LAN Address Range:	08-00-2B-20-FB-00	through	08-00-2B-20-FB-7F

System Configuration	1. Show box configuration
Menu	2. Show/set slot configuration
	3. Show/set system time
	4. Clear management memory
	5. Reboot menu
	6. Return to main menu

Choice:

## Show/Set Slot Configuration

This choice displays the contents and status of each logic slot. A sub menu is displayed with choices for powering linecards on or off, as described below.

GIGAswitch Slot Configuration						
Slot	Card Type	State	HW	FW		Status
1	Switch Engine	Powered Up	H	0.0f	DL1.00 BB2.00	Elected SCP
2	-	-				
3	-	-				
4	-	-				
5	SCP	Powered UP	H	2.13/dl1.00/bb2.00		Initialized
6	-	-				
7	Clock	Powered Up	B03	2.10		Initialized
8	CBS	Powered Up				Initialized
9	FGL-4	Powered Up	-			
10	FGL-2	Powered Up	B			Initialized
11	-	-				
12	FGL-2	Powered Up	C	1.34		Initialized
13	FGL-2	Powered Up	B	2.34		Initialized
14	-	-				

Slot Configuration Menu

1. Power up card
2. Power down card
3. Power cycle card
4. Redisplay slot configuration
5. Return to main menu

Choice:

### Power Up a Card

This choice allows power to be applied to a card.

Input:

slot number

### Power Down a Card

This choice allows power to be removed from a card.

Input:

slot number

### Power Cycle a Card

This choice allows power to be cycled; the card is powered down, then up.

Input:

slot number

### Redisplay Slot Configuration

This choice redisplays the slot configuration screen.

---

## Show/Set System Time

This choice displays the current system time, time since last reboot and a prompt to change current date and time. Press <CR> to return to the main menu. If a new time is not entered no change will be made.

System Time

Current time: 03/04/96 13:47:05

Time since last switch reboot: 000:00:10:12.895

Enter date and time (mmddyyhhmmss):

---

## Clear Management Memory

This choice allows the management memory to be cleared. The following warning is displayed.

Management Memory Reset Action

WARNING: You have chosen to ERASE management memory and REBOOT the GIGAswitch. All values that have been set by SNMP and by OBM will be lost.

Do you really want to do this? (yes/no):

---

## Reboot Menu

This choice allows the switch to be rebooted normally, or into diagnostic mode.

Reboot Menu    1. Normal Reboot  
                  2. Reboot into Diagnostic mode  
                  3. Return to main menu

Choice:

### Normal Reboot

This choice allows the GIGAswitch to be rebooted. The following warning message is displayed:

Warning: This will terminate your OBM session and  
REBOOT the GIGAswitch.

Do you want to do this? (yes/no):

### Reboot into Diagnostic mode

This choice allows the GIGAswitch to be rebooted into diagnostic mode. The following warning message is displayed:

Warning: This will terminate your OBM session and  
REBOOT the GIGAswitch into diagnostic mode.

Do you want to do this? (yes/no):

This chapter describes the choices that can be made from the Port section of the main menu.

```
Port  6. Show LAN address assignments
      7. Show/set privileged and bootserver ports
      8. Show/set delayed ports
      9. IP menu
```

---

## Show LAN Address Assignments

This choice displays each logical port's FPPN, SPN, and assigned LAN address. Three screens are required to show all 64 assignments. To display the next screen press <cr>.

The port section of the main menu is redisplayed at the bottom of each screen.

### Port LAN Address Assignments

FPPN	SPN	LAN Address	FPPN	SPN	LAN Address
1.1	( 1)	08-00-2B-20-FB-08	1.2	( 2)	08-00-2B-20-FB-09
2.1	( 3)	08-00-2B-20-FB-0a	2.2	( 4)	08-00-2B-20-FB-0b
3.1	( 5)	08-00-2B-20-FB-0c	3.2	( 6)	08-00-2B-20-FB-0d
4.1	( 7)	08-00-2B-20-FB-0e	4.2	( 8)	08-00-2B-20-FB-0f
5.1	( 9)	08-00-2B-20-FB-10	5.2	(10)	08-00-2B-20-FB-11
5.3	(11)	08-00-2B-20-FB-1b	5.4	(12)	08-00-2B-20-FB-13
6.1	(13)	08-00-2B-20-FB-14	6.2	(14)	08-00-2B-20-FB-15
6.3	(15)	08-00-2B-20-FB-16	6.4	(16)	08-00-2B-20-FB-17
9.1	(17)	08-00-2B-20-FB-18	9.2	(18)	08-00-2B-20-FB-19
9.1	(17)	08-00-2B-20-FB-1a	9.2	(18)	08-00-2B-20-FB-1b
10.1	(21)	08-00-2B-20-FB-1c	10.2	(22)	08-00-2B-20-FB-1d
10.3	(23)	08-00-2B-20-FB-1e	10.4	(24)	08-00-2B-20-FB-1f

Port Menu

1. Show LAN address assignments
2. Show/set privileged and bootserver ports
3. Show/set delayed ports
4. IP menu
5. Return to main menu

Choice (<cr>= More):

## Show/Set Privileged and Bootserver Ports

This choice displays which ports are set to be privileged, and which ports are bootserver ports. It also indicates that a port is in the forwarding state. Two screens are required to display all the information.

A sub menu is displayed at the bottom of each screen, This menu allows one to add or remove privileged and bootserver ports.

Privileged (P) and Bootserver (B) Ports  
(\* = port in forwarding state)

FPPN	SPN	P	B	FPPN	SPN	P	B	FPPN	SPN	P	B	FPPN	SPN	P	B
1.1	( 1)	P		1.2	( 2)	P									
2.1	( 3)	P	B	2.2	( 4)	P	B								
3.1	( 5)	P		3.2	( 6)	P									
4.1	( 7)	P		4.2	( 8)	P									
5.1	( 9)	P		5.2	(10)	P		5.3	(11)	P		5.4	(12)	P	
6.1	(13)	P		6.2	(14)	P		6.3	(15)	P		6.4	(16)	P	
9.1	(17)*	P		9.2	(18)*	P		9.1	(17)	P		9.2	(18)	P	
10.1	(21)	P	B	10.2	(22)	P	B	10.3	(23)	P	B	10.4	(24)	P	B
11.1	(25)	P		11.2	(26)	P		11.3	(27)	P		11.4	(28)	P	
12.1	(29)	P	B	12.2	(30)	P	B	12.3	(31)	P	B	12.4	(32)	P	B
13.1	(33)	P		13.2	(34)	P									
14.1	(35)	P		14.2	(36)	P									

Privileged  
and Bootserver  
Menu

1. Add privileged port
2. Remove privileged port
3. Add bootserver port
4. Remove bootserver port
5. Return to main menu

Choice (<cr>=More):

### Add Privileged Port

This choice allows privileged ports to be added.  
Input:

Port# (or range or 'all')

### Remove Privileged Port

This choice allows privileged ports to be removed.  
Input:

Port# (or range or 'all')

### Add Bootserver Port

This choice allows bootserver ports to be added.  
Input:

Port# (or range or 'all')

### Remove Bootserver Port

This choice allows bootserver ports to be removed.  
Input:

Port# (or range or 'all')

---

## Show/Set Delayed Ports

This choice displays the delayed port information. A sub menu is displayed at the bottom of the screen. This menu allows one to add or remove delayed ports, or to boot a port whose booting has been delayed.

Delayed(D) Boot Ports  
(\* = unbooted delayed ports)

FPPN	SPN	D	FPPN	SPN	D	FPPN	SPN	D	FPPN	SPN	D
1.1	( 1)	D	1.2	( 2)	D						
2.1	( 3)	* D	2.2	( 4)	D						
3.1	( 5)	D	3.2	( 6)	D						
4.1	( 7)	D	4.2	( 8)	* D						
5.1	( 9)	D	5.2	(10)	D	5.3	(11)	D	5.4	(12)	D
6.1	(13)	D	6.2	(14)	D	6.3	(15)	D	6.4	(16)	D
9.1	(17)		9.2	(18)		9.1	(17)		9.2	(18)	
10.1	(21)		10.2	(22)		10.3	(23)		10.4	(24)	
11.1	(25)		11.2	(26)		11.3	(27)		11.4	(28)	
12.1	(29)		12.2	(30)		12.3	(31)		12.4	(32)	
13.1	(33)		13.2	(34)							
14.1	(35)		14.2	(36)							

Delayed Port Menu

1. Add port to delayed list

2. Remove port from delayed list

3. Boot port

4. Return to main menu

Choice:

### Add Delayed Port

This choice allows ports to be added to the delayed list.  
Input:

Port# (or range or 'all')

### Remove Delayed Port

This choice allows ports to be removed from the delayed list.  
Input:

Port# (or range or 'all')

### Boot Port

This choice allows a delayed port to be booted. Note: Port must be in the delayed state to use this option.  
Input:

Port# (or range or 'all')

---

## IP Menu

This choice displays the IP address menu which allows one to set or deassign IP addresses, and to add or delete route information.

```
IP Menu          1. Show IP addresses assigned to ports
                  2. Show ports with IP addresses
                  3. Add IP address
                  4. Deassign IP address
                  5. Show route information
                  6. Add route information
                  7. Delete route information
                  8. Return to main menu
```

Choice:

### Show IP Addresses Assigned to Ports

This choice displays each IP Address assigned to the switch, along with a list of ports to which it is assigned. If this display requires more than one screen a ("`<cr>= More`") indicator will be shown following the prompt. Each screen of the display has the IP address menu following the display.

```
                  IP Addresses Assigned to Ports
IP Address      Mask          Port List
16.20.233.45    255.255.255.0  1.1-1.2,10.1-12.4
```

```
IP Menu          1. Show IP addresses assigned to ports
                  2. Show ports with IP addresses
                  3. Add IP address
                  4. Deassign IP address
                  5. Show route information
                  6. Add route information
                  7. Delete route information
                  8. Return to main menu
```

Choice:

### Show Ports with IP addresses

This choice shows ports with IP address.

Input:

Port # (or range or 'all')

### Add IP Address

This choice allows assignment of an IP address to one or more ports.

Inputs (separated by spaces):

```
Port # (or range or 'all')
IPAddress
NetMask
```

**Deassign IP Address**

This choice allows the deassignment of an IP address from one or more ports.

Inputs (separated by spaces):

Port # (or range or 'all')  
IPAddress

**Show Route Information**

This choice displays the route information.

Destination                      Mask                      First Hop:  
None

**Add Route Information**

This choice allows route information to be added.

Inputs (separated by spaces):

Route  
Destination

**Delete Route Information**

This choice allows the route information to be deleted.

Inputs (separated by spaces):

Route  
Destination

---

## Bridge Menu

This chapter describes the choices that can be made from the Bridge section of the main menu.

Bridge

10. Bridge menu

---

## Bridge Menu

This choice displays the bridge menu which allows access to information concerning the forwarding database.

Bridge Menu

1. Show number of addreesses in SCP fwd'g database
2. Show IP entry
3. Show 802 entry
4. Set linecard fwd'g database size
5. Return to main menu

Choice:

### Show Number of Addreesses

Displays the number of addresses in the SCP's bridge forwarding database.

### Show IP Entry

Displays information from records in the translation table for the IP address.

Input:

IP address

### Show 802 Entry

Displays information from records in the translation table for the 802 address.

Input:

802 Hardware Address (hex)

### Set linecard fwd'g database size

On entering this menu, the current forwarding table size is displayed along with the lincard forwarding table size menu:

The current linecard forwarding table size is 7737 addesses.

Linecard Forwarding	1. Set table size to 3737 addresses
Table Size Menu	2. Set table size to 7737 addresses
	3. Set table size to 15737 addresses
	4. Set table size to 23993 addresses
	5. Return to previous menu

Choice:

If you choose to make a change in the forwarding line card table size the following message is displayed:

You have asked to change the linecard forwarding table size to XXXXX addresses.

Warning: After the size is set the switch will REBOOT and begin operation with the new size.

Do you want to do this? (yes/no)

This chapter describes the choices that can be made from the MIBs section of the Main Menu.

MIBs

11. MIB viewer menu

Choice:

---

## MIB Viewer Menu Choices

This choice displays the MIB viewer menu. This menu allows one to see the values of MIB objects, and to see the SNMP, UDP, IP, and the ICMP counters.

MIB Viewer Menu	1. Get
	2. Getnext
	3. Show SNMP counters
	4. Show UDP counters
	5. Show IP counters
	6. Show ICMP counters
	7. Return to main menu

Choice:

### **Get**

Displays the SNMP value for an object specified by OID. This OID can be in a dotted decimal format or leafname.instance format.

Input:

Object Identifier

### **Getnext**

Displays the SNMP value that follows the given OID. This OID can be in dotted decimal format, leafname.instance format, or "x". If "x" is entered the OBM will use the last OID entered to get the next value.

Input:

Object Identifier

### **Show SNMP Counters**

Displays the SNMP counters in mib2.snmp.

### **Show UDP Counters**

Displays the UDP counters in mib2.udp.

### **Show IP Counters**

Displays the IP counters in mib2.ip.

### **Show ICMP Counters**

Displays the ICMP counters in mib2.icmp.

---

## Extensions Menu

This chapter describes the choices that can be made from the extensions section of the main menu.

Extensions    12. Extended options menu

---

## Extended Menu

This choice allows access to extended option menu.

Extended Options Menu	<ol style="list-style-type: none"> <li>1. Statistics and counters menu</li> <li>2. Debug options menu</li> <li>3. Hunt group menu</li> <li>4. Return to main menu</li> </ol>
-----------------------	--

Choice:

### Statistics and Counters Menu

This choice allows access to the statistics and counters menu.

Statistics and Counters Menu	<ol style="list-style-type: none"> <li>1. AT statistics</li> <li>2. PortUpdate statistics</li> <li>3. Spanning tree statistics menu</li> <li>4. Hunt group statistics menu</li> <li>5. Flooding counters</li> <li>6. RMC error counters menu</li> <li>7. SNMP slot counters menu</li> <li>8. Return to previous menu</li> </ol>
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Choice:

The above menu items are not covered in this guide. They are used when troubleshooting.

### Debug Options Menu

This choice allows access to the Debug Option Menu.

Debug Options Menu	<ol style="list-style-type: none"> <li>1. Error log menu</li> <li>2. Expanded SCP firmware versions</li> <li>3. Expanded AGL firmware versions</li> <li>4. Management memory dump</li> <li>5. Linecard options menu</li> <li>6. Monitor messages</li> <li>7. Return to previous menu</li> </ol>
--------------------	---

Choice:

**Display Error log** — Displays the error log in two ways.

Error log Menu	<ol style="list-style-type: none"> <li>1. Short display</li> <li>2. Short display - paged</li> <li>3. Full display</li> <li>4. Return to previous menu</li> </ol>
----------------	---

Choice:

*Short Display* — Displays entries continuously one entry per line.

*Short Display - Paged* — Displays a page of entries one entry per line. <CR> clears screen and displays next page.

*Full Display* — Displays a single entry.

**Expanded SCP Firmware Versions** — Displays the expanded firmware versions, followed by the debug option menu.

```
diagnostics (200):  Tue Apr 5 14:35:21 EDT 1994
/scp-fw/src/bootimage_sources.ol

network download (100):  Wed Aug 4 17:58:23 EDT 1993
/two/scpdump/bootimage_soul

operational (2BAD00):  Fri Jun 2 17:15:12 EDT 1995
/users/segool/pg/src hpunix2.nal
```

```
Debug Options      1. Error log menu
Menu              2. Expanded SCP firmware versions
                  3. Expanded AGL firmware versions
                  4. Management memory dump
                  5. Linecard options menu
                  6. Monitor messages
                  7. Return to previous menu
```

Choice:

**Expanded AGL Firmware Versions** — Displays the expanded AGL firmware versions, followed by the debug option menu.

```
AGL Expanded Firmware Versions
slot      card type      fw
```

```
Debug Options      1. Error log menu
Menu              2. Expanded SCP firmware versions
                  3. Expanded AGL firmware versions
                  4. Management memory dump
                  5. Linecard options menu
                  6. Monitor messages
                  7. Return to previous menu
```

Choice:

**Management Memory Dump** — Causes the management memory to be dumped.

```
:20000000030168101355B979FD87EF4F00BBC929954C000003010
200030226250800030019
:20002000000000000000301020004010C01000401020004010C010
10401020004010C010075
:0400400004010200B5
```

```
Debug Options      1. Error log menu
Menu              2. Expanded SCP firmware versions
                  3. Expanded AGL firmware versions
                  4. Management memory dump
                  5. Linecard options menu
                  6. Monitor messages
                  7. Return to previous menu
```

Choice:

**Linecard Options Menu** — Displays the linecard option menu.

Linecard Options Menu

1. Change linecard diagnostics timeout
2. Return to previous menu

Choice:

*Change Linecard Diagnostics Timeout* — Allows the diagnostics timeout on a linecard to be changed.

Input:

Slot number

**Monitor Messages** — Displays the SCP messages.

An SCP message is displayed, only if there is a message in the buffer. This is real time so, if there are no messages in the buffer the screen will remain blank until an SCP message is received, or until any key is pressed.

**Hunt Group Menu**

This choice allows access to the hunt group configuration menu.

- Hunt Group Menu
1. Hunt group configuration menu
  2. Set/disable hunt group support
  3. Return to previous menu

Choice:

**Hunt Group Configuration Menu**—Displays the hunt group configuration menu.

Hunt Group Config Menu

1. Show hunt group (SPN)
2. Show hunt group (FPPN)
3. Show hunt group (SPN & FPPN)
4. Return to previous menu

Choice:

*Show hunt group (SPN)—Displays the SPN*

## Hunt group Configuration (SPN)

Physical Hunt Group	Physical Hunt Group	Physical Hunt Group
1	37	13
2	37	14
3	37	15
4	37	16
5		17
6		18
7		19
8		20
9		21
10		22
11		23
12		24
		25
		26
		27
		28
		29
		30
		31
		32
		33
		34
		35
		36

## Hunt Group Config Menu

1. Show hunt group (SPN)
2. Show hunt group (FPPN)
3. Show hunt group (SPN & FPPN)
4. Return to previous menu

Choice:

*Show hunt group (FPPN)—Displays the FPPN*

## Hunt group Configuration (FPPN)

Physical Hunt Group	Physical Hunt Group	Physical Hunt Group
1.1	99.37	6.1
1.2	99.37	6.2
2.1	99.37	6.3
2.2	99.37	6.4
3.1		9.1
3.2		9.2
4.1		9.3
4.2		9.4
5.1		10.1
5.2		10.2
5.3		10.3
5.4		10.4
		11.1
		11.2
		11.3
		11.4
		12.1
		12.2
		12.3
		12.4
		13.1
		13.2
		14.1
		14.2

## Hunt Group Config Menu

1. Show hunt group (SPN)
2. Show hunt group (FPPN)
3. Show hunt group (SPN & FPPN)
4. Return to previous menu

Choice:

*Show hunt group (SPN & FPPN)*—Displays the SPN and FPPN.

#### Hunt group Configuration (SPN & FPPN)

SPN	FPPN	SPN	Fppn	SPN	Fppn	SPN	Fppn	SPN	Fppn	SPN	Fppn
Phy	Phy	HG	HG	Phy	PHY	HG	HG	PHY	PHY	HG	HG
1	1.1	37	99.37	13	6.1			25	11.1	40	99.40
2	1.2	37	99.37	14	6.2			26	11.2	40	99.40
3	2.1	37	99.37	15	6.3			27	11.3	40	99.40
4	2.2	37	99.37	16	6.4			28	11.4	40	99.40
5	3.1			17	9.1			29	12.1		
6	3.2			18	9.2			30	12.2		
7	4.1			19	9.3			31	12.3		
8	4.2			20	9.4			32	12.4		
9	5.1			21	10.1			33	13.1		
10	5.2			22	10.2			34	13.2		
11	5.3			23	10.3			35	14.1		
12	5.4			24	10.4			36	14.2		

#### Hunt Group Config Menu

1. Show hunt group (SPN)
2. Show hunt group (FPPN)
3. Show hunt group (SPN & FPPN)
4. Return to previous menu

Choice:

**Set/disable hunt group support**—allows you to disable hunt group support. The following message will appear:

Hunt groups are currently supported

Do you want to change the configuration to disable hunt groups?

Warning: If you answer yes, the switch will REBOOT.

Do you want to do this? (yes/no):

This chapter describes the choices that can be made from the OBM section of the Main Menu.

OBM 13. OBM menu

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## OBM Menu

This choice displays the OBM menu which allows access to information concerning how the OBM is displayed.

```
OBM Menu          1. Screen mode menu
                  2. Set OBM password
                  3. OBM prompt menu
                  4. Return to main menu
```

Choice:

### Screen Mode Menu

This choice allows access to the screen mode menu, which specifies what occurs on the screen immediately after a menu selection is made.

The current screen mode is : Clear screen mode

```
Screen Mode Menu  1. Clear screen mode
                  2. Scroll screen mode
                  3. Text mode
                  4. Return to previous menu
```

Choice:

**Clear Screen - Mode** — Causes the screen to clear between OBM displays.

**Scroll Screen - Mode** — Causes the screen to scroll between OBM displays.

**Text Mode** — OBM displays follow each other with no scrolling or clearing.

### OBM Password

This choice allows the user to set a password to gain entrance to the OBM. The password is checked only if the keyswitch on the PSC is in the "local" or "remote" access position. The password must be 8 - 16 characters.

Input:

New Password:

Re-enter new password:

### OBM Prompt Menu

This choice allows access to the OBM prompt menu. A custom prompt is especially useful when managing more than one GIGAswitch/FDDI System.

```
OBM Prompt Menu  1. Set a custom prompt
                  2. Set the default prompt
                  3. Return to previous menu
```

Choice:

**Set a custom prompt**— Allows OBM prompt to be changed.

**Set the default prompt**—Sets OBM prompt to default (Choice:).