

## FrameSaver® SLV 9126/9128 Quick Reference

Document Number 9128-A2-GL10-10

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9128-A2-GB20

*FrameSaver SLV 9126/9128 User's Guide*

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This Quick Reference helps you access related documents, shows the menu hierarchy, and summarizes the configuration options and their default settings.

### Getting Started

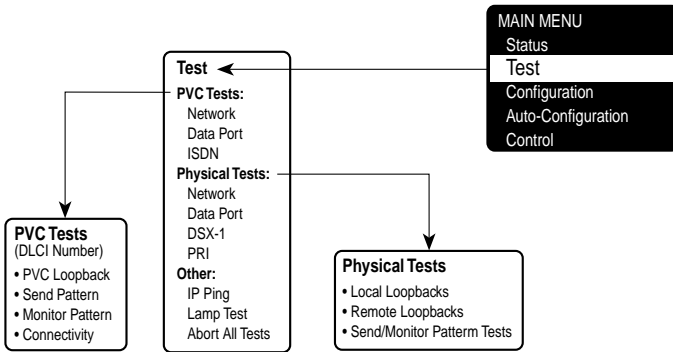
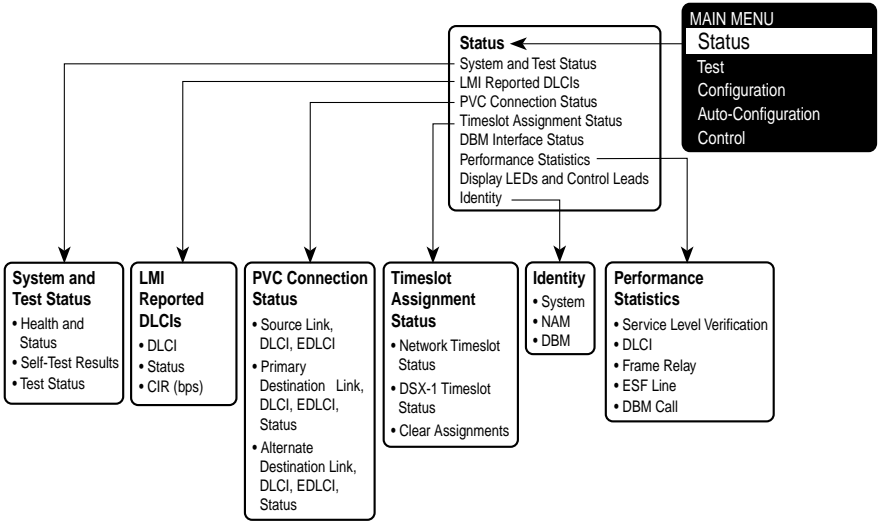
If you have not yet installed and set up the FrameSaver SLV unit, do so now. Refer to the appropriate installation instructions.

Before starting to use the FrameSaver SLV unit, it is recommended that you download the User's Guide so you have access to information about the unit, then print chapters or sections you may want to reference.

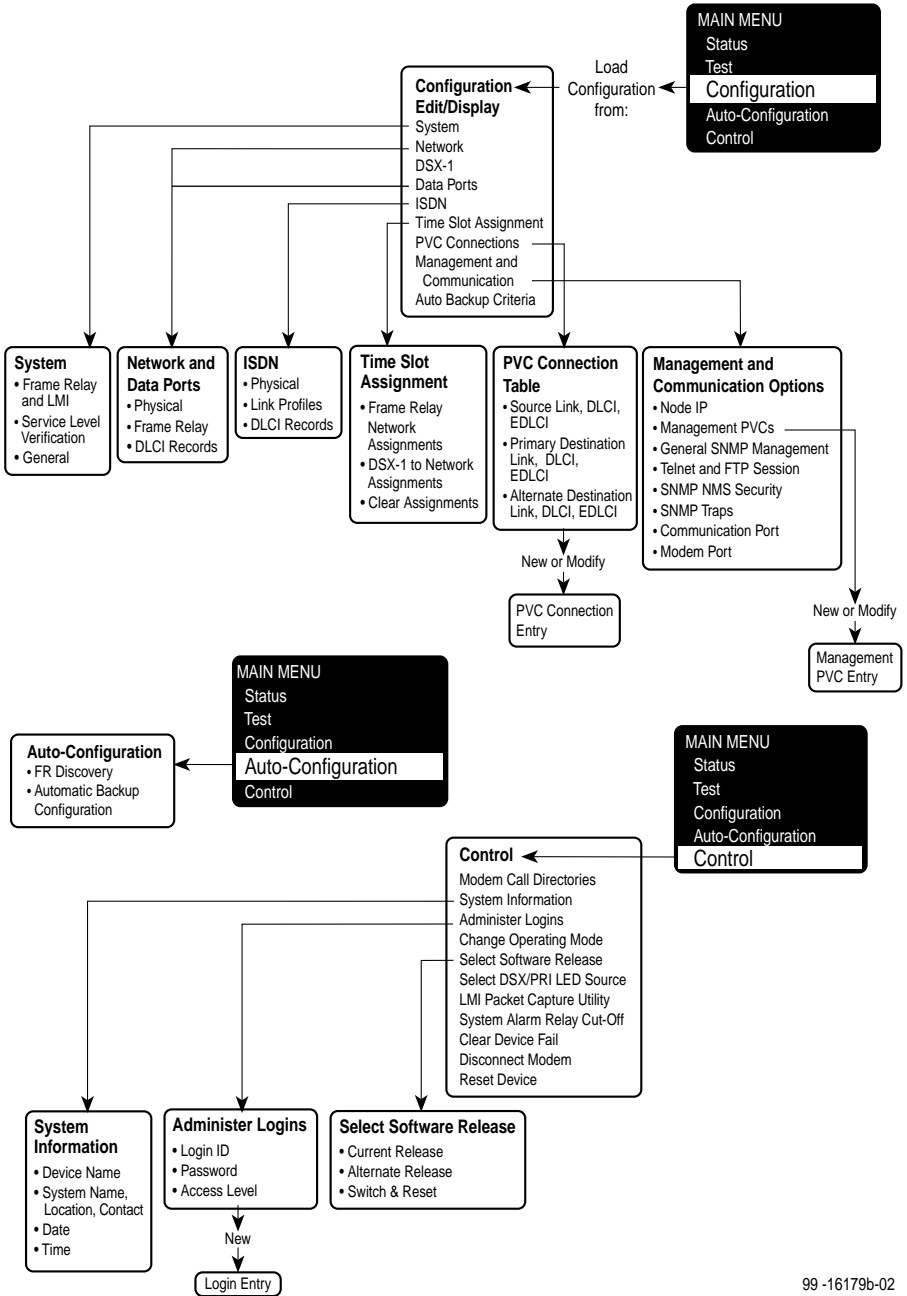
### Menu Hierarchy

The Menu Hierarchy shows the organization of the FrameSaver unit's menus and screens. The following pages provide a pictorial view of the menu hierarchy, which helps to navigate the menus and access information.

# Menu Hierarchy



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# Configuration Option Summaries

This section summarizes the configuration options accessed when you select Configuration from the Main Menu. The table references apply to the tables contained in Chapter 9, *Configuration Options*, of the User's Guide.

- System
- Physical
- ISDN Link Profiles
- DSX-1
- Time Slot Assignment
- Frame Relay
- DLCI Records
- PVC Connections
- Management and Communication
- Auto Backup Criteria

## System

Select System Options to configure options applicable to the entire system.

- Frame Relay and LMI
- Service Level Verification
- General

## Frame Relay and LMI

Select Frame Relay and LMI to configure the general frame relay options for the system.

Frame Relay and LMI		Table 9-1
Configuration Option	Settings	Default in <b>[Bold]</b>
LMI Behavior	<b>[Independent]</b> , Port-1_Follows_Net1-FR1, Port-2_Follows_Net1-FR1, All_Ports_Follow_Net1-FR1 Net1-FR1_Follows_Port-1, Net1-FR1_Follows_Port-2, Port-1_Codependent_with_Net1-FR1, Port-2_Codependent_with_Net1-FR1	
LMI Error Event (N2)	1, 2, <b>[3]</b> , 4, 5, 6, 7, 8, 9, 10	
LMI Clearing Event (N3)	<b>[1]</b> , 2, 3, 4, 5, 6, 7, 8, 9, 10	
LMI Status Enquiry (N1)	1, 2, 3, 4, 5, <b>[6]</b> , . . . 255	
LMI Heartbeat (T1)	5, <b>[10]</b> , 15, 20, 25, 30	
LMI Inbound Heartbeat (T2)	5, 10, <b>[15]</b> , 20, 25, 30	
LMI N4 Measurement Period (T3)	5, 10, 15, <b>[20]</b> , 25, 30	

## Service Level Verification

Select Service Level Verification to configure the SLV options for the system.

Service Level Verification		Table 9-2
Configuration Option	Settings	Default in <b>[Bold]</b>
SLV Sample Interval (secs)	15–3600 <b>[60]</b>	
SLV Delivery Ratio	Enable, <b>[Disable]</b>	
DLCI Down on SLV Timeout	Enable, <b>[Disable]</b>	
SLV Timeout Error Event Threshold	1, 2, <b>[3]</b> , . . . 20	
SLV Timeout Clearing Event Threshold	<b>[1]</b> , 2, 3, . . . 20	

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## General

Select **General** to configure a timeout period and duration for user-initiated loopbacks and pattern tests, a primary and secondary clock source for the system, and a system alarm relay.

<b>General</b>		Table 9-7
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
Test Timeout	<b>[Enable]</b> , Disable	
Test Duration (min)	1–120 <b>[10]</b>	
Primary Clock Source	<b>[Net1]</b> , DSX, Internal, DBM	
Secondary Clock Source	Net1, DSX, <b>[Internal]</b> , DBM	
System Alarm Relay	Enable, <b>[Disable]</b>	

## Physical

Select **Physical** to configure the physical characteristics of each interface:

- Network
- Data Ports
- ISDN

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# Network

Select Network, then Physical to configure physical characteristics for the T1 network interface.

<b>Network</b>		Table 9-4
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
Interface Status	<b>[Enable]</b> , Disable	
Line Framing Format	D4, <b>[ESF]</b>	
Line Coding Format	AMI, <b>[B8ZS]</b>	
Line Build Out (LBO)	<b>[0.0]</b> , -7.5, -15, -22.5	
Bit Stuffing	<b>[62411]</b> , Disable	
Transmit Timing	<b>[System]</b> , Interface	
Network Initiated LLB	<b>[Enable]</b> , Disable	
Network Initiated PLB	<b>[Enable]</b> , Disable	
ANSI Performance Report Messages	Enable, <b>[Disable]</b>	
Excessive Error Rate Threshold	<b>[10E-4]</b> , 10E-5, 10E-6, 10E-7, 10E-8, 10E-9	
Circuit Identifier	<i>Text Field</i> , <b>[Clear]</b>	

## Data Ports

Select Data Ports, then Physical to configure physical characteristics for port connected to the DTE.

<b>Data Ports</b>		<b>Table 9-6</b>
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
Port Status	<b>[Enable]</b> , Disable	
Port Use <i>(FrameSaver 9128 Port-2 only)</i>	<b>[Frame Relay]</b> , Synchronous Data	
<b>For Port-1 or when Port Use is set to Frame Relay on Port-2:</b>		
Max Port Rate (Kbps) <i>(FrameSaver 9128 Port-2 only)</i>	<b>[1536]</b> , 2048	
Transmit Clock Source	<b>[Internal]</b> , External	
Invert Transmit Clock	<b>[Auto]</b> , Enable, Disable	
Monitor DTR	<b>[Enable]</b> , Disable	
Monitor RTS (Control)	<b>[Enable]</b> , Disable	
Port (DTE) Initiated Loopback	<b>[Disable]</b> , Local, Both	
<b>When Port Use is set to Synchronous Data on Port-2:</b>		
Port Base Rate (Kbps)	<b>[Nx64]</b> , Nx56	
Transmit Clock Source	<b>[Internal]</b> , External	
Invert Transmit Clock	<b>[Auto]</b> , Enable, Disable	
Monitor DTR	<b>[Enable]</b> , Disable	
Monitor RTS (Control)	<b>[Enable]</b> , Disable	
Port (DTE) Initiated Loopback	<b>[Disable]</b> , DTPLB, DCLB, Both	
Invert Transmit and Receive Data	Enable, <b>[Disable]</b>	
Action on Network Yellow Alarm	None, <b>[Halt]</b>	
Network Initiated Data Channel Loopback	<b>[Disable]</b> , V.54, ANSI_FT1, Both	

## ISDN

Select ISDN, then Physical to configure physical characteristics for the ISDN interface if an ISDN DBM is installed.

The following table shows the configuration options for an ISDN BRI DBM, which is an optional feature for the FrameSaver 9126 only.

<b>ISDN BRI</b>		<b>Table 9-7</b>
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
Interface Status	Enable, <b>[Disable]</b>	
Originate or Answer	<b>[Originate]</b> , Answer	
Service Profile ID 1/2 (SPID)	<b>[Clear]</b> , 3–20 digits	
Local Phone Number 1/2	<b>[Clear]</b> , 10 digits	

The following table shows the configuration options for an ISDN PRI DBM, which is an optional feature for the FrameSaver 9128 only.

<b>ISDN PRI</b>		<b>Table 9-8</b>
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
Interface Status	Enable, <b>[Disable]</b>	
Originate or Answer	Originate, <b>[Answer]</b>	
Switch Type	<b>[NI-2]</b> , ATT_4ESS, ATT_5ESS	
Local Phone Number	<b>[Clear]</b> , 10 digits	
Line Framing Format	D4, <b>[ESF]</b>	
Line Build Out (LBO)	<b>[0.0]</b> , –7.5, –15, –22.5	
Network Initiated LLB	<b>[Enable]</b> , Disable	
Network Initiated PLB	<b>[Enable]</b> , Disable	
ANSI Performance Report Messages	Enable, <b>[Disable]</b>	
Excessive Error Rate Threshold	<b>[10E-4]</b> , 10E-5, 10E-6, 10E-7, 10E-8, 10E-9	
Circuit Identifier	<i>Text Field</i> , <b>[Clear]</b>	

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## ISDN Link Profiles

Select ISDN, then Link Profiles to configure the ISDN Link Profiles.

<b>Link Profiles</b>		<b>Table 9-9</b>
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
Link Name	ASCII text entry, <b>[HQ_Site]</b>	
Link Status	Auto, <b>[Disable]</b>	
Outbound Phone Number	0–9, *, #, <space>, _, or –	
Inbound Calling ID 1 or 2	0–9	

## DSX-1

Select DSX-1 to configure the DSX-1 interface.

<b>DSX-1</b>		<b>Table 9-5</b>
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
Interface Status	Enable, <b>[Disable]</b>	
Line Framing Format	D4, <b>[ESF]</b>	
Line Coding Format	AMI, <b>[B8ZS]</b>	
Line Equalization	<b>[0–133]</b> , 133–266, 266–399, 399–533, 533–655	
Send all Ones on DSX-1 Failure	<b>[Enable]</b> , Disable	

## Time Slot Assignment

Select Time Slot Assignment to make cross-connection assignments.

Select Frame Relay Network Assignments to assign DS0s on the T1 network interface(s) for frame relay links.

Frame Relay-to-Network Interface Time Slot Assignment	
Network Channel	Settings <span style="float: right;">Default in <b>[Bold]</b></span>
Time Slot Discovery	<b>[Enable]</b> , Disable
N01–N24	<b>[Available]</b> , Assigned, FrameRly1

Select DSX-1-to-Network Assignments to assign or deassign DSX-1 time slots to T1 network interface time slots.

DSX-1-to-Network Interface Time Slot Assignment	
Network Channel	Settings <span style="float: right;">Default in <b>[Bold]</b></span>
N01–N24	<b>[Available]</b> , Assigned, DSX-1/yy
Signaling and Trunk Conditioning	None, <b>[RBS]</b> , E&M-idle, E&M-busy, FXSg-idle, FXSg-busy, , FXS1-idle, FXS1-busy, FXSD-idle, FXSD-busy, PLAR3idle, PLAR3busy, PLAR4idle, PLAR4busy, DPO-idle, DPO-busy, FXOg-idle, FXOg-busy, FXO1-idle, FXO1-busy, FXOD-idle, FXOD-busy, DPT-idle, DPT-busy, USER-0000, USER-0001, USER-0010, USER-0011, USER-0100, USER-0101, USER-0110, USER-0111, USER-1000, USER-1001, USER-1010, USER-1011, USER-1100, USER-1101, USER-1110, USER-1111

# Frame Relay

Select Frame Relay to configure the Frame Relay characteristics of the following interfaces:

- Network
- Data Ports

Frame Relay		Table 9-10
Configuration Option	Settings	Default in <b>[Bold]</b>
LMI Protocol	Initialize_From_Net1FR1, Initialize_From_Interface, Auto_On_LMI_Fail, Standard, Annex-A, Annex-D  [Initialize_From_Net1FR1] for data port links. [Auto_On_LMI_Fail] for network links.	
LMI Parameters	[System], Custom	
<b>When LMI Parameters is set to System:</b>		
Frame Relay DS0s Base Rate	[Nx64], Nx56	
Network Initiated DCLB	Disable, V.54, ANSI_FT1, <b>[Both]</b>	
<b>When LMI Parameters is set to Custom:</b>		
LMI Error Event (N2)	1, 2, <b>[3]</b> , 4, 5, 6, 7, 8, 9, 10	
LMI Clearing Event (N3)	<b>[1]</b> , 2, 3, 4, 5, 6, 7, 8, 9, 10	
LMI Status Enquiry (N1)	1, 2, 3, 4, 5, <b>[6]</b> , . . . 255	
LMI Heartbeat (T1)	5, <b>[10]</b> , 15, 20, 25, 30	
LMI Inbound Heartbeat (T2)	5, 10, <b>[15]</b> , 20, 25, 30	
LMI N4 Measurement Period (T3)	5, 10, 15, <b>[20]</b> , 25, 30	
Frame Relay DS0s Base Rate	[Nx64], Nx56	
Network Initiated DCLB	Disable, V.54, ANSI_FT1, <b>[Both]</b>	

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## DLCI Records

Select DLCI Records to configure the DLCI Records for the following interfaces:

- Network
- Data Port
- ISDN

The Auto-Configuration feature provides automatic DLCI record configuration.

<b>DLCI Records for Each Interface</b>		Table 9-11
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
DLCI Number	16–1007	
DLCI Type	<b>[Standard]</b> , Multiplexed <b>[Standard]</b> for DLCIs on user data ports. <b>[Multiplexed]</b> for network and ISDN interfaces.	
CIR (bps)	0– <i>maximum line rate on port</i> <b>[64000]</b>	
Committed Burst Size Bc (Bits) Bc	<b>[CIR]</b> , Other 0– <i>maximum line rate on port</i> <b>[64000]</b>	
Excess Burst Size Be (Bits) Be	<i>This field is blank; it explains Be.</i> 0– <b>[maximum line rate on port minus 64,000]</b>	
DLCI Priority	Low, Medium, <b>[High]</b>	
Outbound Management Priority	Low, <b>[Medium]</b> , High	

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## PVC Connections

Select PVC Connections to manually configure the logical connections between the selected interface and the data ports. The Auto-Configuration feature provides automatic configuration of PVC connections.

<b>PVC Connections</b>		Table 9-13
<b>Configuration Option</b>	<b>Settings</b>	Default in [ <b>Bold</b> ]
Source Link	Port- <i>n</i> , <i>ISDN Link Name</i> , Net1-FR1	
Source DLCI	16 –1007	
Source EDLCI	0 – 62	
Primary Destination Link	<i>ISDN Link Name</i> , Net1-FR1	
Primary Destination DLCI	16 –1007	
Primary Destination EDLCI	0 – 62	
Alternate Destination Link	<i>ISDN Link Name</i> , Net1-FR1	
Alternate Destination DLCI	16 –1007	
Alternate Destination EDLCI	0–62	

## Management and Communication

Select Management and Communication to configure the FrameSaver unit so it can be managed by an NMS or Telnet terminal, and to select the appropriate protocols.

- Node IP
- Management PVCs
- General SNMP Management
- Telnet and FTP Sessions
- SNMP NMS Security
- SNMP Traps
- Communication Port
- Modem Port

## Node IP

Select Node IP to configure support of the IP communication network.

Node IP		Table 9-14
Configuration Option	Settings	Default in <b>[Bold]</b>
Node IP Address	001.000.000.000 – 223.255.255.255, <b>[Clear]</b>	
Node Subnet Mask	<b>[000.000.000.000]</b> – 255.255.255.255, Clear	
Default IP Destination	<b>[None]</b> , Modem, COM, <i>PVCname</i>	
TS Access Management Link	<b>[None]</b> , <i>PVCname</i>	
TS Management Link Access Level	<b>[Level-1]</b> , Level-2, Level-3	

## Management PVCs

Select Management PVCs to configure a Management PVC for in-band management. The Auto-Configuration feature provides automatic configuration of Management PVCs on the Network interface.

Management PVCs		Table 9-15
Configuration Option	Settings	Default in <b>[Bold]</b>
Name	<i>ASCII text entry</i> [8 characters]	
Intf IP Address	<b>[Node-IP-Address]</b> , Special ( <i>address entry: 001.000.000.000 – 223.255.255.255</i> )	
Intf Subnet Mask	<b>[Node-Subnet-Mask]</b> , Calculate, Special ( <i>address entry: 000.000.000.000 – 255.255.255.255</i> )	
Set DE	Enable, <b>[Disable]</b>	
Primary Link	Net1-FR1, Port- <i>n</i> , <i>ISDN Link Name</i> , Clear	
Primary DLCI	16–1007	
Primary EDLCI	0–62	
Primary Link RIP	None, Standard_out, Proprietary <b>[None]</b> for the COM and modem ports. <b>[Proprietary]</b> for management links on multiplexed DLCIs. <b>[Standard_out]</b> for management links on standard DLCIs.	
Alternate Link	Net1-FR1, Port- <i>n</i> , <i>ISDN Link Name</i> , Clear	
Alternate DLCI	16–1007	
Alternate EDLCI	0–62	

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## General SNMP Management

Select General SNMP Management to configure the FrameSaver unit so it can be managed as an SNMP agent.

General SNMP Management		Table 9-16
Configuration Option	Settings	Default in <b>[Bold]</b>
SNMP Management	<b>[Enable]</b> , Disable	
Community Name 1	<i>ASCII text entry</i> , <b>[Public]</b> , Clear	
Name 1 Access	<b>[Read]</b> , Read/Write	
Community Name 2	<i>ASCII text entry</i> , <b>[Clear]</b>	
Name 2 Access	<b>[Read]</b> , Read/Write	

## Telnet and FTP Sessions

Select Telnet and FTP Sessions to configure access to the FrameSaver unit through Telnet or FTP, and to determine whether security will be required.

Telnet and FTP Sessions		Table 9-17
Configuration Option	Settings	Default in <b>[Bold]</b>
Telnet Session	<b>[Enable]</b> , Disable	
Telnet Login Required	Enable, <b>[Disable]</b>	
Session Access Level	<b>[Level-1]</b> , Level-2, Level-3	
Inactivity Timeout	<b>[Enable]</b> , Disable	
Disconnect Time (Minutes)	1–60 <b>[10]</b>	
FTP Session	<b>[Enable]</b> , Disable	
FTP Login Required	Enable, <b>[Disable]</b>	
FTP Max Receive Rate	1– <b>[1536]</b>	

## SNMP NMS Security

Select SNMP NMS Security to configure access to the unit.

<b>SNMP NMS Security</b>		Table 9-18
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
NMS IP Validation	Enable, <b>[Disable]</b>	
Number of Managers	<b>[1]</b> – 10	
NMS <i>n</i> IP Address	<b>[001.000.000.000]</b> –223.255.255.255, Clear	
Access Type	<b>[Read]</b> , Read/Write	

## SNMP Traps

Select SNMP Traps to configure desired SNMP traps and dialing out when SNMP traps occur.

<b>SNMP Traps</b>		Table 9-19
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
SNMP Traps	Enable, <b>[Disable]</b>	
Number of Trap Managers	<b>[1]</b> – 6	
NMS <i>n</i> IP Address	<b>001.000.000.000</b> –223.255.255.255, <b>[Clear]</b>	
Destination	<b>[Default]</b> , Modem, COM, <i>PVCname</i>	
General Traps	Disable, Warm, AuthFail, <b>[Both]</b>	
Enterprise Specific Traps	Enable, <b>[Disable]</b>	
Link Traps	Disable, Up, Down, <b>[Both]</b>	
Link Traps Interfaces	Network, DSX-1, T1s, Ports, DBM, <b>[All]</b>	
DLCI Traps on Interfaces	Network, Ports, <b>[All]</b>	
RMON Traps	<b>[Enable]</b> , Disable	
Trap Dial-Out	Enable, <b>[Disable]</b>	
Trap Disconnect	<b>[Enable]</b> , Disable	
Call Retry	Enable, <b>[Disable]</b>	
Dial-Out Delay Time (Min)	1–10 <b>[5]</b>	
Alternate Dial-Out Directory	<b>[None]</b> , 1–5	

## Communication Port

Select Communication Port to configure the FrameSaver unit's COM port.

<b>Communication Port</b>		Table 9-20
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
Port Use	<b>[Terminal]</b> , Net Link	
<b>When Port Use is set to Terminal:</b>		
Data Rate (Kbps)	9.6, 14.4, <b>[19.2]</b> , 28.8, 38.4, 57.6, 115.2	
Character Length	7, <b>[8]</b>	
Parity	<b>[None]</b> , Even, Odd	
Stop Bits	<b>[1]</b> , 2	
Ignore Control Leads	<b>[Disable]</b> , DTR	
Login Required	Enable, <b>[Disable]</b>	
Port Access Level	<b>[Level-1]</b> , Level-2, Level-3	
Inactivity Timeout	<b>[Enable]</b> , Disable	
Disconnect Time (Minutes)	1–60 <b>[10]</b>	
<b>When Port Use is set to Net Link:</b>		
Data Rate (Kbps)	9.6, 14.4, <b>[19.2]</b> , 28.8, 38.4, 57.6, 115.2	
Character Length	7, <b>[8]</b>	
Parity	<b>[None]</b> , Even, Odd	
Stop Bits	<b>[1]</b> , 2	
Ignore Control Leads	<b>[Disable]</b> , DTR	
IP Address	001.000.000.000–223.255.255.255, <b>[Clear]</b>	
Subnet Mask	<b>[000.000.000.000]</b> –255.255.255.255, Clear	
Link Protocol	<b>[PPP]</b> , SLIP	
RIP	<b>[None]</b> , Proprietary, Standard_out	

## Modem Port

Select Modem Port to configure the FrameSaver unit's Modem port.

<b>Modem Port</b>		Table 9-21
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
Port Use	[Terminal], Net Link	
<b>When Port Use is set to Terminal:</b>		
Dial-In Access	[Enable], Disable	
Login Required	Enable, [Disable]	
Port Access Level	[Level-1], Level-2, Level-3	
Inactivity Timeout	[Enable], Disable	
Disconnect Time (Minutes)	1–60 [10]	
<b>When Port Use is set to Net Link:</b>		
Dial-In Access	[Enable], Disable	
IP Address	001.000.000.000–223.255.255.255, [Clear]	
Subnet Mask	[000.000.000.000]–255.255.255.255, Clear	
Link Protocol	[PPP], SLIP	
Alternate IP Address	001.000.000.000–223.255.255.255, [Clear]	
Alternate Subnet Mask	[000.000.000.000]–255.255.255.255, Clear	
RIP	[None], Proprietary, Standard_out	

## Auto Backup Criteria

Select Auto Backup Criteria to control automatic backup.

<b>Auto Backup Criteria</b>		Table 9-22
<b>Configuration Option</b>	<b>Settings</b>	Default in <b>[Bold]</b>
Auto Backup	Enable, [Disable]	
When Auto Backup Allowed	[Always], Restrict	
Backup Allowed From	Monday–Sunday, [00:00]–23:00	
Backup Allowed To	Monday–Sunday, 00:00–[24:00]	

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Contact your local sales representative, service representative, or distributor directly for any help needed. For additional information concerning warranty, sales, service, repair, installation, documentation, training, distributor locations, or Paradyne worldwide office locations, use one of the following methods:

- **Via the Internet:** Visit the Paradyne World Wide Web site at **www.paradyne.com**. (Be sure to register your warranty there. Select Service & Support → *Warranty*.)
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## Patent Notification

FrameSaver SLV products are protected by U.S. Patents: 5,550,700 and 5,654,966. Other U.S. patents pending.



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