PARADYNE™

FrameSaver® SLV 9124
Quick Reference

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Select the following document:

9124-A2-GH30
FrameSaver SLV 9124 Technical Reference

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Getting Started

This Quick Reference shows the menu hierarchy and summarizes the configuration options and their default settings.

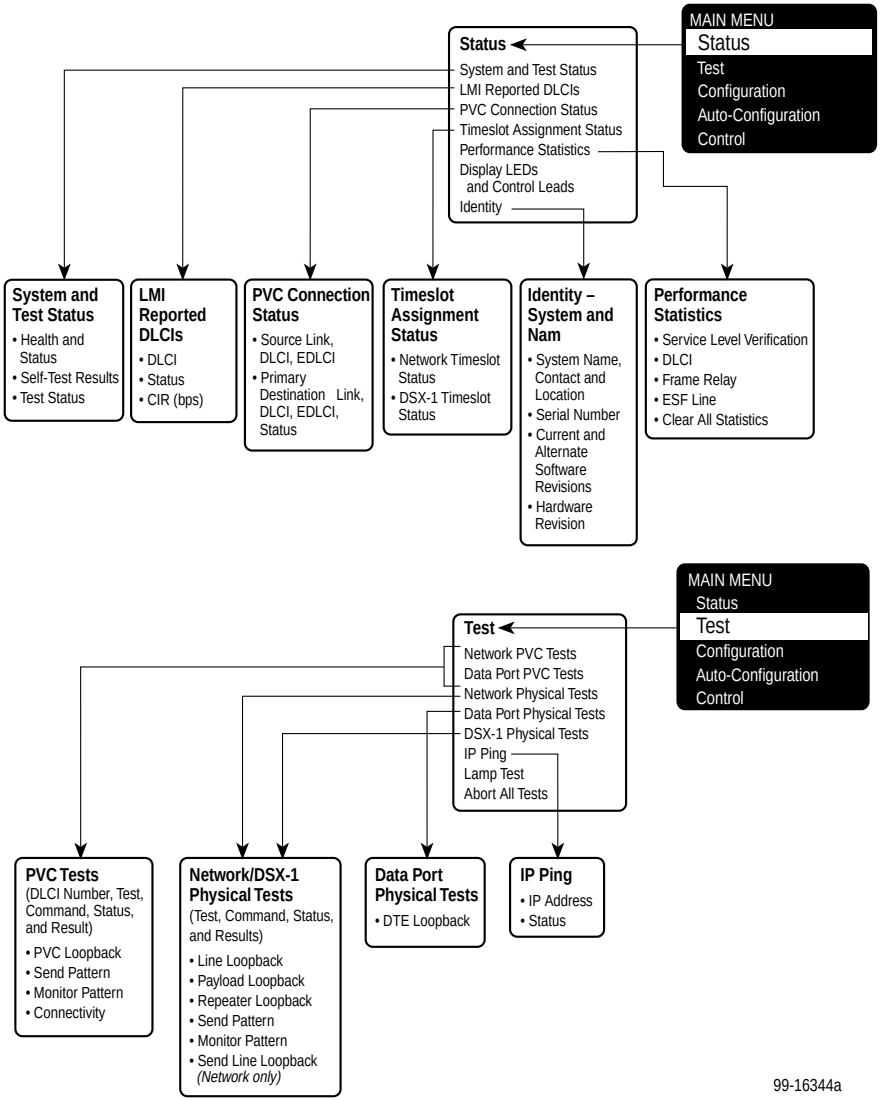
If you have not yet installed and set up the FrameSaver SLV unit, do so now. Refer to the appropriate installation instructions.

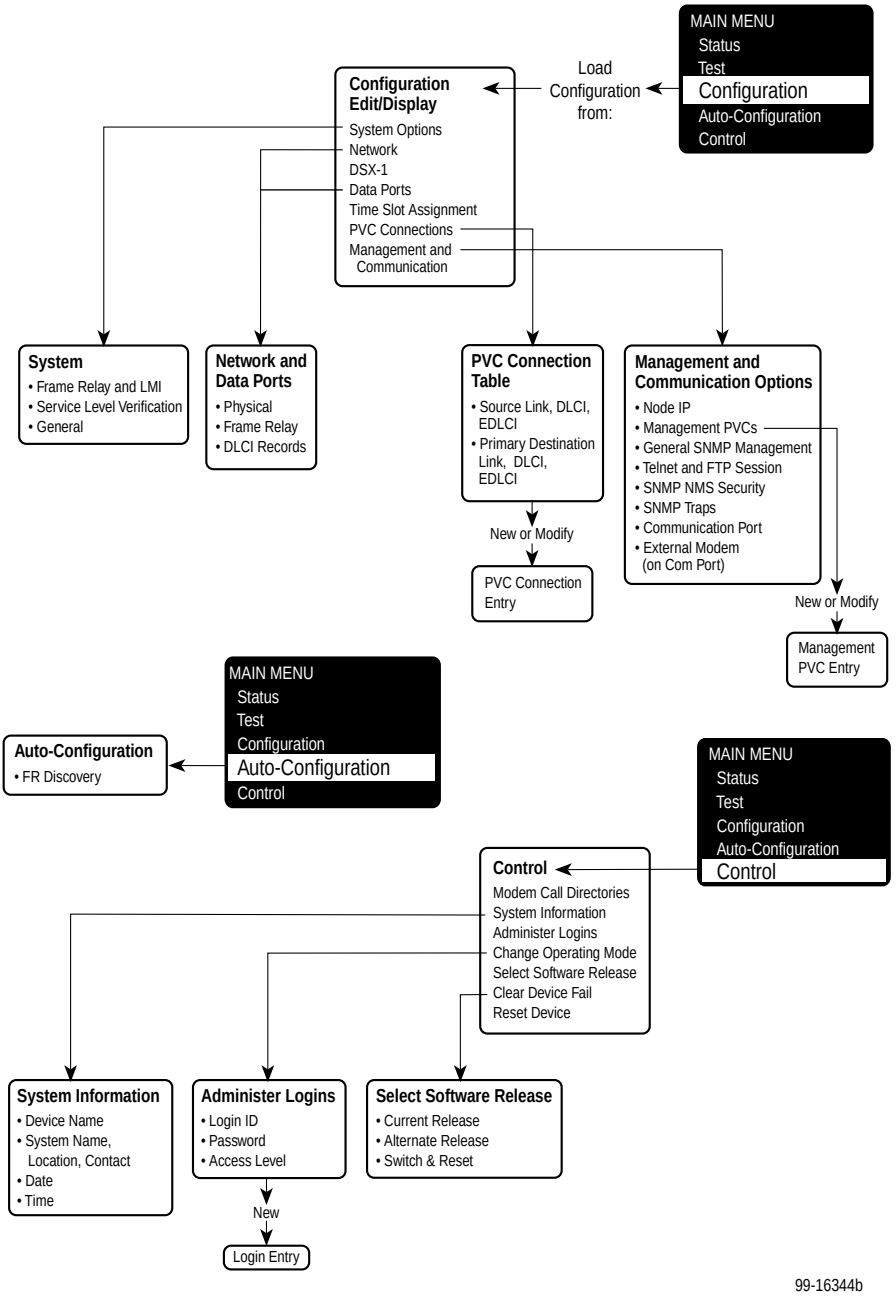
Before starting to use the FrameSaver SLV unit, it is recommended that you download the Technical Reference so you have access to information about the unit, then print chapters or sections you may want to reference.

Menu Hierarchy

The Menu Hierarchy shows a pictorial view of the organization of the FrameSaver unit's menus and screens, which can help navigate menus and access information.

Menu Hierarchy




MAIN MENU
Status
Test
Configuration
Auto-Configuration
Control
Load Configuration from:
Configuration Edit/Display
System Options
Network
DSX-1
Data Ports
Time Slot Assignment
PVC Connections
Management and Communication
System
• Frame Relay and LMI
• Service Level Verification
• General
Network and Data Ports
• Physical
• Frame Relay
• DLCI Records
PVC Connection Table
• Source Link, DLCI, EDLCI
• Primary Destination Link, DLCI, EDLCI
New or Modify
PVC Connection Entry
Management and Communication Options
• Node IP
• Management PVCs
• General SNMP Management
• Telnet and FTP Session
• SNMP NMS Security
• SNMP Traps
• Communication Port
• External Modem (on Com Port)
New or Modify
Management PVC Entry
MAIN MENU
Status
Test
Configuration
Auto-Configuration
Control
Auto-Configuration
• FR Discovery
MAIN MENU
Status
Test
Configuration
Auto-Configuration
Control
Control
Modem Call Directories
System Information
Administer Logins
Change Operating Mode
Select Software Release
Clear Device Fail
Reset Device
System Information
• Device Name
• System Name, Location, Contact
• Date
• Time
Administer Logins
• Login ID
• Password
• Access Level
New
Login Entry
Select Software Release
• Current Release
• Alternate Release
• Switch & Reset
99-16344b

Configuration Option Summaries

The following sections summarize the configuration options accessed when you select Configuration from the Main Menu. The table references apply to the tables in *Configuration Options* of the Technical Reference.

- System
- Physical
- Time Slot Assignment
- Frame Relay
- DLCI Records
- PVC Connections
- Management and Communication

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 [**Bold**])
LMI Behavior	[**Independent**], Port-1_Follows_Net1-FR1, Net1-FR1_Follows_Port-1, Port-1_Codependent_with_Net1-FR1
LMI Error Event (N2)	1, 2, [**3**], 4, 5, 6, 7, 8, 9, 10
LMI Clearing Event (N3)	[**1**], 2, 3, 4, 5, 6, 7, 8, 9, 10
LMI Status Enquiry (N1)	1, 2, 3, 4, 5, [**6**], . . . 255
LMI Heartbeat (T1)	5, [**10**], 15, 20, 25, 30
LMI Inbound Heartbeat (T2)	5, 10, [**15**], 20, 25, 30
LMI N4 Measurement Period (T3)	5, 10, 15, [**20**], 25, 30

Service Level Verification

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

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

General

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

General	Table 9-7
Configuration Option	**Settings** Default in [**Bold**]
Test Timeout	[**Enable**], Disable
Test Duration (min)	1–120 [**10**]
Primary Clock Source	[**Net1**], DSX, Internal
Secondary Clock Source	Net1, DSX, [**Internal**]

Physical

Select Physical to configure the physical characteristics of each interface.

- Network
- Data Ports

Network

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

Network	Table 9-2
Configuration Option	**Settings** Default in [**Bold**]
Line Framing Format	D4, [**ESF**]
Line Coding Format	AMI, [**B8ZS**]
Line Build Out (LBO)	[**0.0**], –7.5, –15, –22.5
Bit Stuffing	62411, [**Part68**], Disable
Network Initiated LLB	[**Enable**], Disable
Network Initiated PLB	[**Enable**], Disable
ANSI Performance Report Messages	Enable, [**Disable**]
Excessive Error Rate Threshold	[**10E-4**], 10E-5, 10E-6, 10E-7, 10E-8, 10E-9
Circuit Identifier	*Text Field,* [**Clear**]

Data Port

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

Data Port	Table 9-5
Configuration Option	**Settings** Default in [**Bold**]
Transmit Clock Source	[**Internal**], External
Invert Transmit Clock	[**Auto**], Enable, Disable
Port (DTE) Initiated Loopbacks	Local, [**Disable**]
Monitor DTR	[**Enable**], Disable
Monitor RTS (Control)	[**Enable**], Disable

DSX-1

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

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

Time Slot Assignment

Select Time Slot Assignment to assign DS0s on the T1 network interface(s) for frame relay links.

Frame Relay Network Assignments	
Network Channel	**Settings** Default in [**Bold**]
Time Slot Discovery	[**Enable**], Disable
N01 – N24	[**Available**], 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 Assignments	
Network Channel	**Settings** Default in [**Bold**]
N01 – N24	[**Available**], Assigned, DSX-1/*yy* (DSX Slot-Port/Timeslot)
Signaling and Trunk Conditioning (Network *n* Side and DSX-1 Side)	None, [**RBS**], 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 unique frame relay characteristics for the network interface and the user data port.

Frame Relay	**Table 9-6**
Configuration Option	**Settings** Default in [**Bold**]
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
When LMI Parameters is set to System:	
Frame Relay DS0s Base Rate	[**Nx64**], Nx56
Network Initiated DCLB	Disable, V.54, ANSI_FT1, [**Both**]
When LMI Parameters is set to Custom:	
LMI Error Event (N2)	1, 2, [**3**], 4, 5, 6, 7, 8, 9, 10
LMI Clearing Event (N3)	[**1**], 2, 3, 4, 5, 6, 7, 8, 9, 10
LMI Status Enquiry (N1)	1, 2, 3, 4, 5, [**6**], . . . 255
LMI Heartbeat (T1)	5, [**10**], 15, 20, 25, 30
LMI Inbound Heartbeat (T2)	5, 10, [**15**], 20, 25, 30
LMI N4 Measurement Period (T3)	5, 10, 15, [**20**], 25, 30
Frame Relay DS0s Base Rate	[**Nx64**], Nx56
Network Initiated DCLB	Disable, V.54, ANSI_FT1, [**Both**]

DLCI Records

Select DLCI Records to manually configure DLCI records for each interface. The Auto-Configuration feature provides automatic configuration of DLCI records.

DLCI Records for Each Interface		Table 9-7
Configuration Option	**Settings**	Default in [**Bold**]
DLCI Number	16–1007	
DLCI Type	[**Standard**], Multiplexed	
CIR (bps)	0–*maximum line rate on port* [**64000**]	
Committed Burst Size Bc (Bits) Bc	[**CIR**], Other 0–*maximum line rate on port* [**64000**]	
Excess Burst Size Be (Bits) Be	*This field is blank; it explains Be.* 0–[***maximum line rate on port*** **minus 64,000**]	
DLCI Priority	Low, Medium, [**High**]	
Outbound Management Priority	Low, [**Medium**], High	

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.

PVC Connections		Table 9-13
Configuration Option	**Settings**	Default in [**Bold**]
Source Link	Port-1, Net1-FR1	
Source DLCI	16–1007	
Source EDLCI	0–62	
Destination Link	Net1-FR1	
Destination DLCI	16–1007	
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
- External Modem (on Com Port)

Node IP

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

Node IP — Table 9-14

Configuration Option	Settings (Default in [**Bold**])
Node IP Address	001.000.000.000–223.255.255.255, [**Clear**]
Node Subnet Mask	[**000.000.000.000**]–255.255.255.255, Clear
Default IP Destination	[**None**], COM, *PVCname*
TS Access Management Link	[**None**], *PVCname*
TS Management Link Access Level	[**Level-1**], 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 9-9**
Configuration Option	**Settings** Default in [**Bold**]
Name	*ASCII text entry* [8 characters]
Intf IP Address	[**Node-IP-Address**], Special (a*ddress entry: 001.000.000.000– 223.255.255.255*)
Intf Subnet Mask	[**Node-Subnet-Mask**], Calculate, Special (a*ddress entry: 000.000.000.000– 255.255.255.255*)
Set DE	Enable, [**Disable**]
Primary DLCI	16–1007
Primary EDLCI	0–62
Primary Link RIP	None, Proprietary, Standard_out [**Proprietary**] for management links on multiplexed DLCIs. [**Standard_out**] for management links on standard DLCIs.

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 [**Bold**]
SNMP Management	[**Enable**], Disable
Community Name 1	*ASCII text entry,* [**Public**], Clear
Name 1 Access	[**Read**], Read/Write
Community Name 2	*ASCII text entry*, [**Clear**]
Name 2 Access	[**Read**], 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 [**Bold**])
Telnet Session	[**Enable**], Disable
Telnet Login Required	Enable, [**Disable**]
Session Access Level	[**Level-1**], Level-2, Level-3
Inactivity Timeout	[**Enable**], Disable
Disconnect Time (Minutes)	1–60 [**10**]
FTP Session	[**Enable**], Disable
FTP Login Required	Enable, [**Disable**]
FTP Max Receive Rate (kbps)	1–[*maximum management rate for the unit*]

SNMP NMS Security

Select SNMP NMS Security to configure access to the unit.

SNMP NMS Security — Table 9-18

Configuration Option	Settings (Default in [**Bold**])
NMS IP Validation	Enable, [**Disable**]
Number of Managers	[**1**]–10
NMS *n* IP Address	[**001.000.000.000**] – 223.255.255.255, Clear
Access Type	[**Read**], Read/Write

SNMP Traps

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

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

Communication Port

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

Communication Port	Table 9-15
Configuration Option	**Settings** Default in [**Bold**]
Port Use	[**Terminal**], Net Link
When Port Use is set to Terminal:	
Data Rate (Kbps)	9.6, 14.4, [**19.2**], 28.8, 38.4, 57.6, 115.2
Character Length	7, [**8**]
Parity	[**None**], Even, Odd
Stop Bits	[**1**], 2
Ignore Control Leads	[**Disable**], DTR
Login Required	Enable, [**Disable**]
Port Access Level	[**Level-1**], Level-2, Level-3
Inactivity Timeout	[**Enable**], Disable
Disconnect Time (Minutes)	1–60 [**10**]
When Port Use is set to Net Link:	
Data Rate (Kbps)	9.6, 14.4, [**19.2**], 28.8, 38.4, 57.6, 115.2
Character Length	7, [**8**]
Parity	[**None**], Even, Odd
Stop Bits	[**1**], 2
Ignore Control Leads	[**Disable**], DTR
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
RIP	[**None**], Proprietary, Standard_out

External Modem (on Com Port)

Select External Modem (on Com Port) to configure the communications port when it is connected to an external device like an external modem.

External Modem (on Com Port) **Table 9-16**

Configuration Option	Settings Default in [**Bold**]
External Modem Commands	[**Disable**], AT
Dial-In Access	Enable, [**Disable**]
Alternate IP Address	001.000.000.000–223.255.255.255, [**Clear**]
Alternate Subnet Mask	[**000.000.000.000**]–255.255.255.255, Clear

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