



DSX Access Systems, Inc.

DSX-LAN-D

Programming and Commissioning DSX-LAN-D

The **DSX-LAN-D** is the latest in DSX IP Communications module that supports UDP Controller communication and VLAN configurations. This Module supports RS-232/RS-485 and can be used at Master or Sub Controllers.

Communication Settings:

1. The DSX-LAN-D Module comes with a preset IP Address of 192.168.1.25 and can be programmed with a Web browser. Connect the module to your laptop or switch and connect using a browser. The Module requires **5-12VDC @ 300ma**. Power the Module from the **5VDC** output of the 1040-CDM or 1022 Controller. 12VDC will work if 5VDC is not available.

2. The Module has a default IP Address of 192.168.1.25. Connect with a Laptop or PC that has the same IP schema and subnet (255.255.255.0). Using a Web browser such as "Chrome", enter the IP address and press enter. The LAN Module will respond with a Login page where you will enter: *User - master, Password - master*. The screen shots below show the default Settings for the Module.

3. On the Communications Settings Tab - Do Not change the top 4 items unless instructed to do so. The Serial Port Speed should be **9600**, the Internet Protocol should be **IPv4**, and the Addressing Mode should be **Static(v4 or v6)**.

4. Under Device IP Address enter the **Static IP Address, Subnet Mask, Gateway, and DNS**. Perform "IPConfig" from a command prompt to find the last 3 items. Leave **VLAN at 0** unless it is installed on a VLAN.

5. Enter the **Receive Port** and the **Transmit Port** which should be the same and should match the Comm Port settings at the Comm Server. Uncheck Dynamic Send and

enter the IP Address of the Comm Server for OnDemand Systems. Leave Checked for communicating to a DSX-IP-HUB and when Communicating from Hot Swap Comm Servers.

6. **Click Save to keep settings.** Click Print to save a hard copy of the settings.

The screenshot shows the DSX LAN-D web interface. At the top left, it displays 'Mac: 00-08-66-10-00-25' and 'Version: DSX-LAN-D v7.6'. The main header has 'DSX LAN-D' and a 'Logout' button. Below the header are two tabs: 'Communication Settings' (active) and 'Security Settings'. The 'Communication Settings' tab contains the following fields:

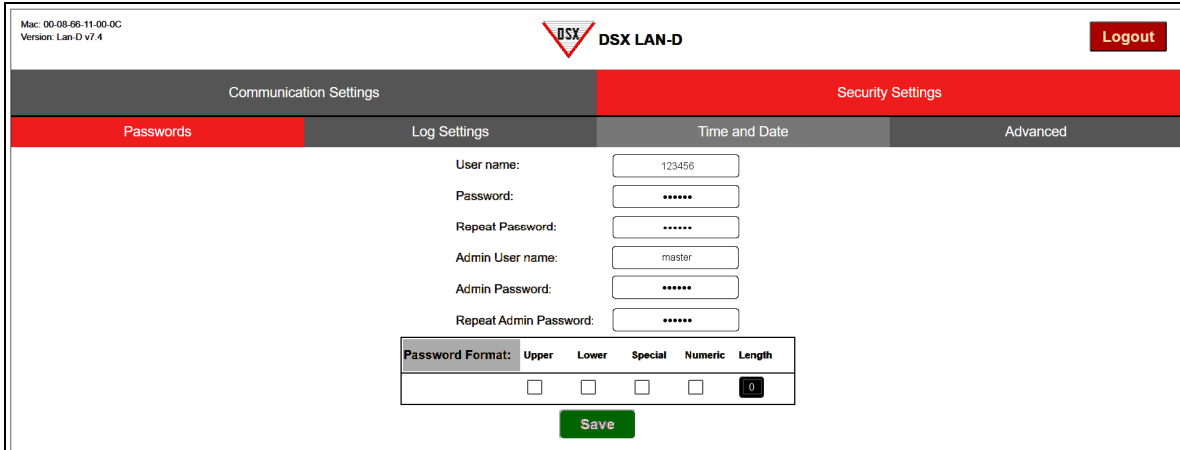
Device name for DHCP:	DSX_00-08-66-10-00-25
Serial Port Speed:	9600
Internet Protocol:	IPv4
Addressing Mode:	static(v4 or v6)
Device IP Address:	192.168.1.25
Device Subnet Mask:	255.255.255.0
Device gateway:	255.255.255.255
Device DNS:	255.255.255.255
VLAN ID:	0
Receive Port:	4001
Transmit Port:	4001
Dynamic Send:	<input checked="" type="checkbox"/>

At the bottom of the form are two buttons: 'Print' and 'Save'.

Security Settings:

Passwords:

7. Under Security Settings - set the **User** Name and Password and the **Admin** User Name and Password. The User can change Communication Settings and the Admin can change Security and Communications Settings. Use the **Password Format** section at the bottom to set the complexity and length of both passwords. 6 to 19 keyboard characters. Select the attributes that must be part of the password. Be careful not to lock yourself out as the Module will have to ship to DSX to be reset.



Mac: 00-08-66-11-00-0C
Version: Lan-D v7.4

DSX LAN-D Logout

Communication Settings Security Settings

Passwords Log Settings Time and Date Advanced

User name: 123456
Password: *****
Repeat Password: *****
Admin User name: master
Admin Password: *****
Repeat Admin Password: *****

Password Format: Upper Lower Special Numeric Length
 0

Save

7a. The User Password allows the changing of the Network Settings only.

Default is > User - 123456 Default Password - 123456

7b. The Admin Password allows the changing of the Security Settings and the Network Settings.

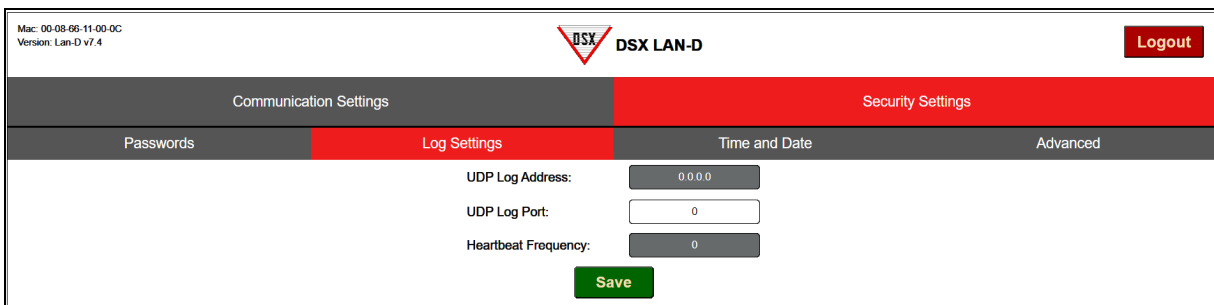
Default is > Admin User - master Default Password – master

Security / Log Settings:

8. The Security Log Settings allow for an optional IP Address and Port to be defined. Once defined The Module will send all Login attempts and notification of changes made to that Log address.

8a. Enter the IP Address and IP Port number to send the information. Do Not Use the Comm Server IP Address.

8b. Enter the number of seconds that the Module will send a supervisory message to the Security Log IP Address. This continual heartbeat supervises the communication and notification path.



Mac: 00-08-66-11-00-0C
Version: Lan-D v7.4

DSX LAN-D Logout

Communication Settings Security Settings

Passwords Log Settings Time and Date Advanced

UDP Log Address: 0.0.0.0
UDP Log Port: 0
Heartbeat Frequency: 0

Save

Example: Sample of the Security Log Supervision Message.

2023-05-12 20:00:00 ; DEVICE:DSX_00-08-66-11-00-0A Heartbeat Frequency changed

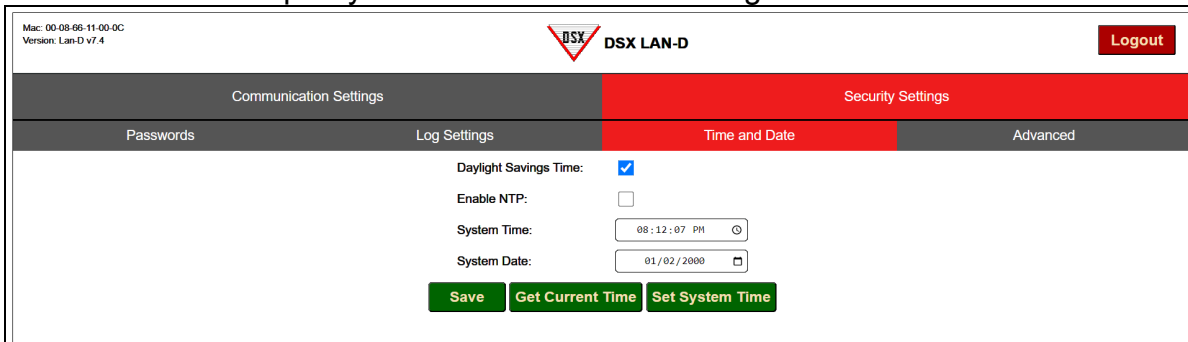
2023-05-12 19:00:30 : DEVICE:DSX_00-08-66-11-00-0A NTP IPAddress changed

2023-05-12 08:32:38 : DEVICE:DSX_00-08-66-11-00-0A Admin logged in.

2023-05-12 08:32:41 : DEVICE:DSX_00-08-66-11-00-0A HB

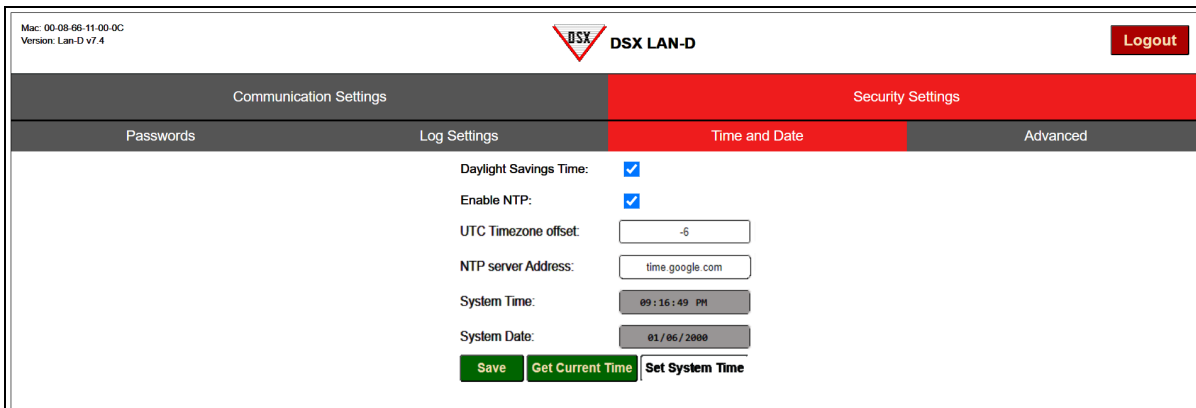
Security / Time and Date:

9a. Enter the Time and Date if a Time Server is not available. Once you have entered the date and time click on **Set System Time** at the bottom. Once the time has been set manually do not power the Module down and up or you will lose the Time Settings.



The screenshot shows the DSX LAN-D web interface. At the top left, it displays 'Mac: 00-08-66-11-00-0C' and 'Version: Lan-D v7.4'. The top right has a 'Logout' button. The navigation bar includes 'Communication Settings' and 'Security Settings'. Under 'Security Settings', there are four sub-tabs: 'Passwords', 'Log Settings', 'Time and Date', and 'Advanced'. The 'Time and Date' tab is active. It contains the following settings: 'Daylight Savings Time' (checked), 'Enable NTP' (unchecked), 'System Time' (08:12:07 PM), and 'System Date' (01/02/2000). At the bottom, there are three buttons: 'Save', 'Get Current Time', and 'Set System Time'.

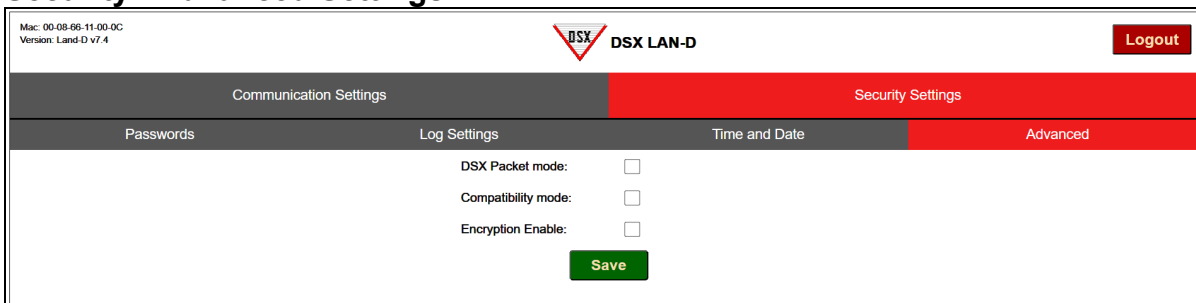
9b. To use a Time Service Select Enable NTP and Set the UTC Time Zone. -6 for Central Time, -5 for Eastern Time, -7 for Mountain Time, and -8 for Pacific Time Enter the NTP Server IP Address.



The screenshot shows the DSX LAN-D web interface with the 'Time and Date' settings. 'Daylight Savings Time' and 'Enable NTP' are both checked. The 'UTC Timezone offset' is set to -6. The 'NTP server Address' is 'time.google.com'. The 'System Time' is 09:16:49 PM and the 'System Date' is 01/06/2000. The 'Set System Time' button is highlighted in green.

9c. Select - Save and then Set System Time

Security / Advanced Settings:



The screenshot shows the DSX LAN-D web interface with the 'Advanced' settings under 'Security Settings'. The settings are: 'DSX Packet mode' (unchecked), 'Compatibility mode' (unchecked), and 'Encryption Enable' (unchecked). A 'Save' button is at the bottom.

10a. Select **DSX Packet Mode:** Enable for DSX controller communication that is using the Internet or busy WAN or Cellular communications.

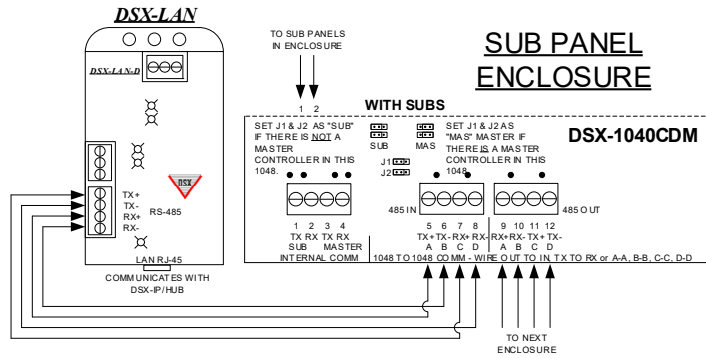
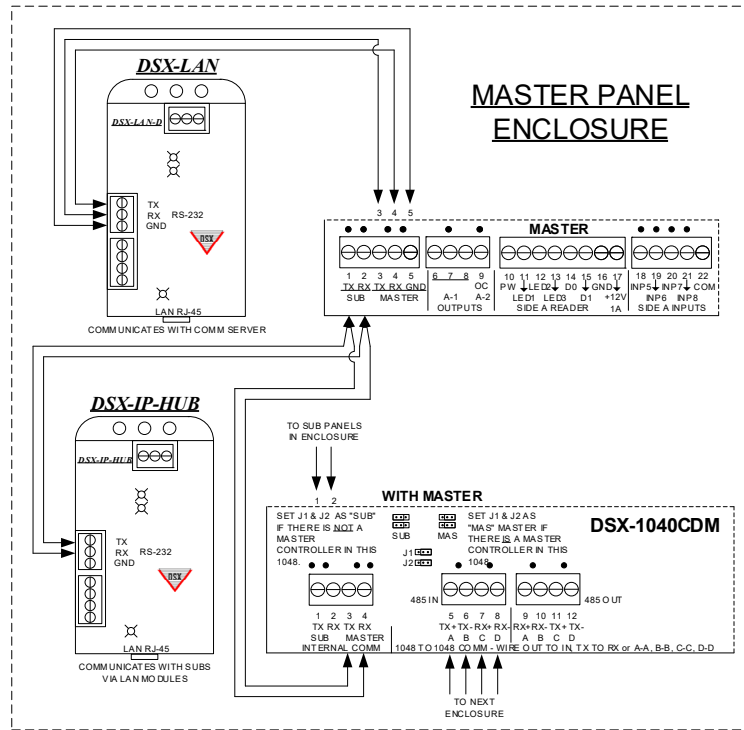
10b. Select **Compatibility Mode:** Enable for Communications to Schlage Integrated Locksets and PIMs using DSX-L85 software.

10c. Encryption Enable - Do Not Select Future Use.

11. Once the Passwords and Log Settings have been entered click on **Save** at the bottom. When finished, close the browser completely.

DSX-LAN-D Wiring Information:

DSX-LAN-D connections to 1040 Series Controllers



DSX-LAN-D connections to 1022 Controllers

