HID/Mercury Reader Manager Aux Module for X-Series Controllers

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Knowledgebase

Title: HID/Mercury Reader Manager Aux Module for X-Series Controllers

1. Purpose:

This article covers the loading of an Aux Module on Lenel X-Series Controllers, that allows HID OSDP-based readers to toggle reader credential compatibilities from within individual setup webpages of the X-Series Controller. This solution does not download new credential applications or key material to the attached readers. To download configurations to an enterprise with multiple intelligent controllers, the administrator must visit each controller webpage.

The application supports HID Signo and iCLASS SE Rev E OSDP readers. All firmware required to run the enabled credential applications must be previously loaded on the reader.

Readers must be using OSDP to communicate.

1. Requirements

Boards and FW revs

Device	Minimum firmware rev
LNL-X2210	
LNL-X2220	1200
LNL-X3300	1.290
LNL-X4420	
LNL-1300-S3	
LNL-1320-S3	3.21.7
LNL-1324E	

HID Readers:

The application supports HID Signo and iCLASS SE Rev E OSDP readers. All firmware required to run the enabled credential applications must be previously loaded on the reader.

1. Where to get HID/Mercury Reader Manager Aux Module

Go to Lenel Partner Central > Downloads > LenelS2 Hardware > Firmware

Under Aux Module header, HID/Mercury Reader Manager will be listed, download this file

- 1. How to load HID/Mercury Reader Manager Aux Module
 - 1. Logon to controller web page
 - 2. Go to Diagnostic Menu Page

Home Network		Diagnostic Menu	
Host Comm Device Info Advanced Networking Users Auto-Save Load Certificate OSDP File Transfer Security Options Diagnostic Restore/Default Apply settings HID Reader Manager Desktop Log Out	Update Firmware Please specify a firmware file Load File (Will reboot board Enable Dump Files Filename	to upload (Max Size 15MB): 1)	Browse
	Delete Selected	Download Selected	

Figure 1: Load Aux Module Firmware

- 1. Go to Update Firmware
- 2. Browse to select file, navigate to where HID/Mercury Reader Manager Aux Module is locally stored on your computer, select HID/Mercury Reader Manager Aux Module
- 3. Choose Load File
- 4. Controller will receive file, then reboot to install file
- 5. Once controller is rebooted, back online, re-login to controller
- 6. New left pane menu open will be available, Reader Manager
- 1. What can you do with HID/Mercury Reader Manager:

	HID Reader Manager Desktop					
9	Reader Settings Read Configuration from Reader to Display Options. OSDP Reader List					
						ons.
Discover Re	adors Fi	nd All Connected Readers				
Read Config	Read Configuration Read Configuration from a Single Reader.			Select All	Deselect /	
ACR Number	Vend	lor	Firmware Version	Status		
□1 □4	HID	Fire and Security	5:0:38 1:139:0	Unknown Discovered		
Configure 1	UTC I HID	Write Configuration to One	5:0:38 1:139:0	Unknown Discovered		
Configure :	UTC I HID	Write Configuration to One	5:0:38 1:139:0 or More Readers	Unknown Discovered		

Figure 2: Initial HID/Mercury Reader Manager Screen

There are three primary functions you can perform from this screen:

- Discover Readers Have the controller search for HID OSDP readers on reader ports attached to the controller
- Read Configuration individual select a reader from "OSDP Reader List" (check box), and then select

"Read Configuration" button, and then current reader configuration will be displayed

• Configure Selected – Modify the current configuration, then select one or more readers from the "OSDP Read List" (check boxes), then select button Configure Selected to send configuration to all selected readers.

Other items on the screen:

- Tech Support Option (only use if directed by Technical Support to use this option)
- Helper Options (only use if directed by Technical Support to use this option)

So this is an example of a result screen after a reader was selected, and Read Configuration button is pushed:

			HID Reader Mana	ger Desktop				
Comm								
anced Networking								
rs o Same			Reader Settin	gs ACR:4				
d Certificate	Low Frequency ()	125 kHz) D Provimity						
OP File Transfer	EM Proximity	, riounity						
anostic								
toreDefault	Seos (Recommen	ided)						
ily Settings Reader Manager	Seos							
	FIPS-201							
OUI	FIPS-201							
	Sec. e.c.							
	CLASS							
	CLASS SE							
	CICLASS SR							
	Secure Identity	Oblect						
	Card Serial Num	aber						
	MIFARE Classic	Oblea						
	Card Serial Num	nher						
	Technical Suppor	t Options						
	SNMP LIST							
	Helper Options							
	Locate Reader							
		OSDP Reader List						
		_						
	Discover Reade	Discover Readers Find All Connected Readers						
	Read Configurat	tion Read Configuration from a 5	Single Reader.	Select All	Deselect All			
		Vendor	Firmware Version	Status				
	ACR Number							
	ACR Number	UTC Fire and Security	5:0:38	Unknown				

Figure 3: Results from Read Configuration

A check in the box means that the reader configuration option is currently enabled. Available options are limited by original reader configuration, you cannot add new options with HID/Mercury Reader Manager, you can only remove options. This is the complete list options that can be configured:

- Low Frequency
 - HID Prox / AWID Proximity
 - EM Proximity
- SEOS
 - ∘ SEOS
- FIPS-201
 - FIPS-201
- iCLASS
 - ∘ iCLASS
 - iCLASS SE
 - iCLASS SR
- Mifare DESFire
 - Secure Identity Object
 - Card Serial Number
- Mifare Classic

- Secure Identity Object
- Card Serial Number
- Technical Support Options
 - SNMP List
- Helper Options
 - Locate Reader

After you have read the configuration, you can modify the checked boxes to enable or disable the available options, select one or more HID Readers in the OSDP Reader List, and then select "Configuration Selected" to modify/change the selected reader(s) configuration.

	HID Reader Manager Desktop							
t Comm ice Info ranced Networking			Paudar Cattin					
to-Save	Low Frequency (125 kHz)	Keaver Jecun	ys Actor				
od Certificate	HID Prox / AND	O Proximity						
curity Options	EM Proximity							
gnostic /tone/Default	Seos (Recommen	ided)						
ly Settings Deader Manager	Secs							
Desting Log Out	FIPS-201							
	F1P5-201							
	ICLASS							
	CICLASS							
	LICLASS SE							
	107 Hold Hard Brown							
	MIFARE DESFire	Ohium						
	Card Serial Number							
	MICARE Classic							
	Secure Identity Object							
	Card Serial Nun	sber						
	Technical Suppor	t Options						
	SNMP List							
	Helper Options							
	Locate Reader							
		OSDP Reader List						
	Discover Reade	ers Find All Connected Readers						
	Read Configurat	tion Read Configuration from a S	ingle Reader.		Select All Deselect Al			
	ACR Number	Vendor	Firmulare Version	Status				
	III 1	UTC Fire and Security	5(0)38	Unknown				

Figure 4:Changing Configuration (Turn Off Low Frequency)

The reader(s) will reboot after the configuration change has been sent to them. After reader returns to normal operation, i.e. LED returns to normal idle state, then you can perform discovery, and read configuration to see that configuration change has taken effect.

NOTE: Some special configuration strings that come from HID technical support can be inserted into the webpage and downloaded to readers instantly. No more waiting for a configuration card to be shipped. Just call HID technical support; receive an email with the configuration command; copy it into the setup webpage for easy configuration change downloads.