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

Last Modified on 10/06/2022 4:16 am EDT

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

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Device	Minimum firmware rev
LNL-X2210	
LNL-X2220	1.290
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 OSDF File Transfer Security Options Diagnostic Restore/Default Apply Settings HID Reader Manager Desktop Log Out	Update Firmware Please specify a firmware file t Load File (Will reboot board Enable Dump Files Filename		Browse
	Delete Selected Download Syslog Submit	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:



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:

ow Frequency () HD Prox / AWD HD Proximity eos (Recommen		Reader Settin	95 ACR:4		
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eos (Recommen					
Secs	ded)				
5608					
IPS-201					
FIPS-201					
CLASS SR					
MIFARE DESFire					
Card Striat Hold					
	Options				
NMP List					
aloss Options					
Locate Reader					
		OSDP Read	er List		
Discover Reade	rs Find All Connected Readers	4			
Read Configurati	ion Read Configuration from a	Single Reader.		Select All	Deselect All
CR Number	Ventor	Elemente Version	Chattat		
14	Hab	1.139.0	Discovered		
	PIPS-201 LASS ECLASS ECLASS SE ECLASS SE ECLAS	Time 201 Immediate ASA Immediate Courses as Immediate Mark Orders Immediate Mark Orders Immediate Mark Orders Immediate Mark Orders Immediate Secure State Immediate Mark Order Immediate Secure State Immediate Descere State Immediate	Times 2010	Times 201 Image: Second S	Times 200 Image: Second S

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.

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ers			Reader Settin	as ACR:4			
to-Save	Low Frequency (125 kHz)					
ad Certificate OP File Transfer	HOD Prox / Alwa	D Proximity					
curity Options	EM Proximity						
ignostic store/Default	Seos (Recommen	sded)					
oly Settings Reader Manager	Seos						
	FIP5-201						
Log Out	C F3PS-201						
	CLASS						
	CLASS						
CLASS SE							
_							
	MIFARE DESFire	Object					
Card Serial Numb							
MIFARE Classic Secure Identit Card Serial No	MICARE Classic						
	Card Serial Nur	nber					
	Technical Support	rt Options					
	SNMP List						
	Helper Options						
	Locate Reader						
	OSDP Reader List						
	Discover Readers Find All Connected Readers						
	Read Configura	tion Read Configuration from a Si	ingle Reader.		Select All Deselect All		
	ACR Number	Vendor	Firmulare Version	Status			
	101	UTC Fire and Security	5:0:38	Unknown			
	24	HID	1:139:0	Discovered			

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.