

Firmware Updates

Updating Reader Firmware From Web Broser

#125

Updating Firmware Using A Web Browser

Introduction:

This Technical Note will describe the process of updating the firmware on the Stealth family of readers running OSDP. In this example the procedure is described for a Lenel OnGuard system but will work for any manufacturers system using Mercury panels running embedded OSDP.

System Configuration

OSDP System

Lenel OnGuard – V7.5.375.127 running under Windows 10 Professional

HID Embedded – V5.5.20

LNL-4420 with firmware V1.293 with an LNL-1320-S3

Stealth Readers configured for OSDP that can be updated by this procedure are:

900W2030 Stealth Bio

900W2036 Stealth Dual

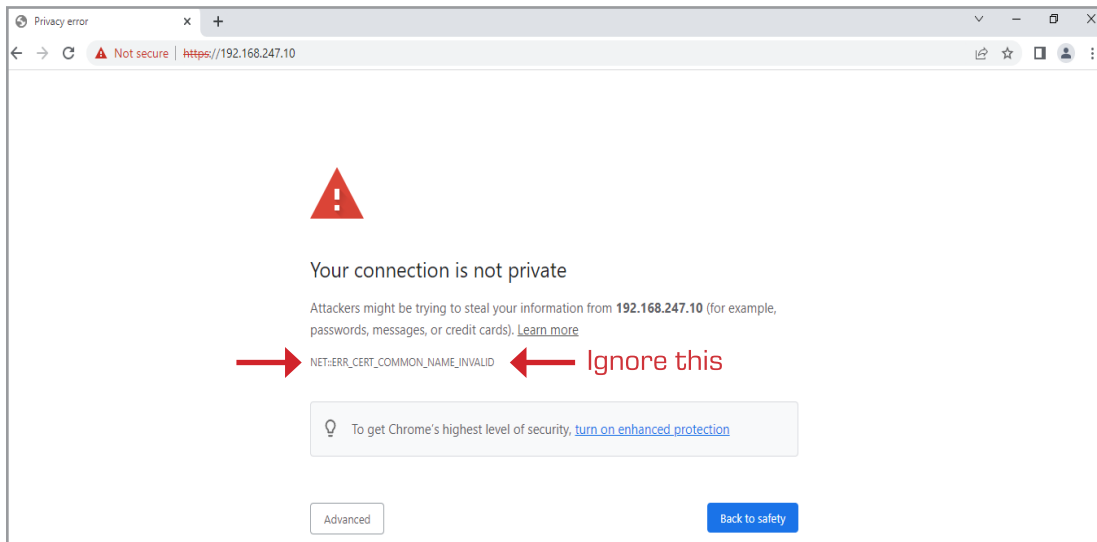
900W2026 Stealth

900W2037 Stealth Lite (Dual)

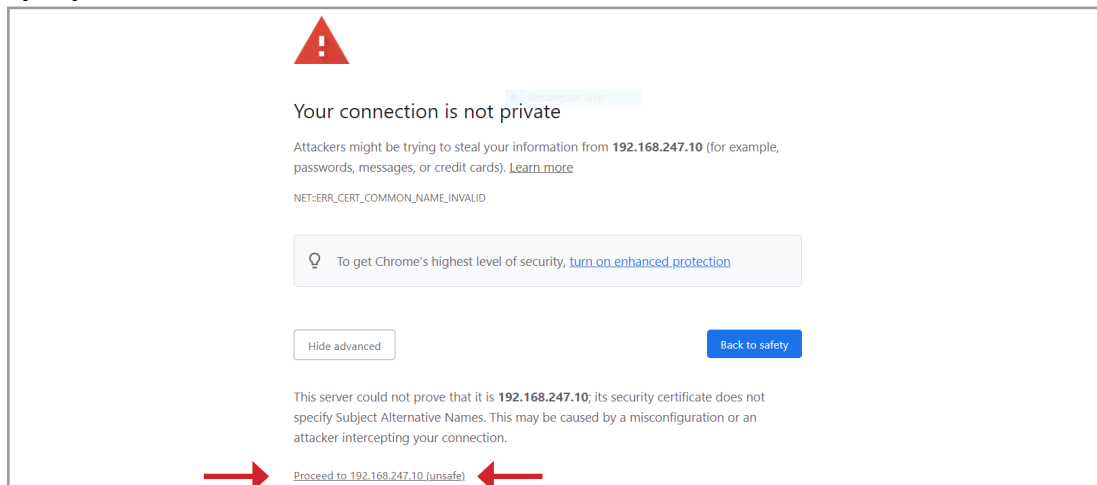
900W2027 Stealth Lite

Procedure:

1. Connect to the Mercury panel via a web browser. For example, in this case the address is “192.168.247.10”. You will see the screen below. An error will be shown but ignore this.



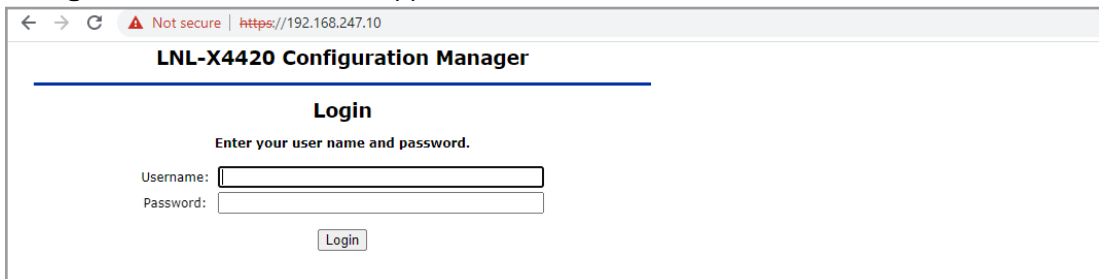
2. Click on Details and you will see the screen below. Click on “Proceed to 192.168.247.10 (unsafe)” Click on this anyway.



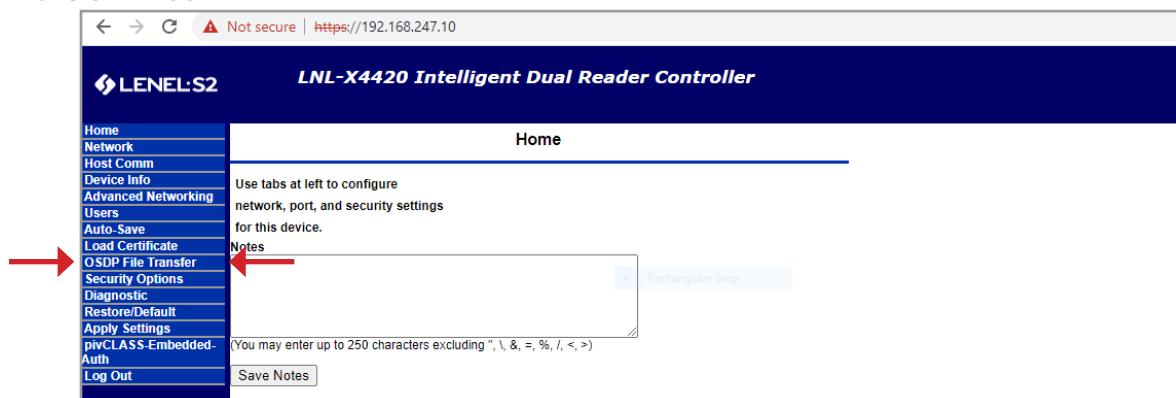
3. A Login window will appear, the header will vary by Company.



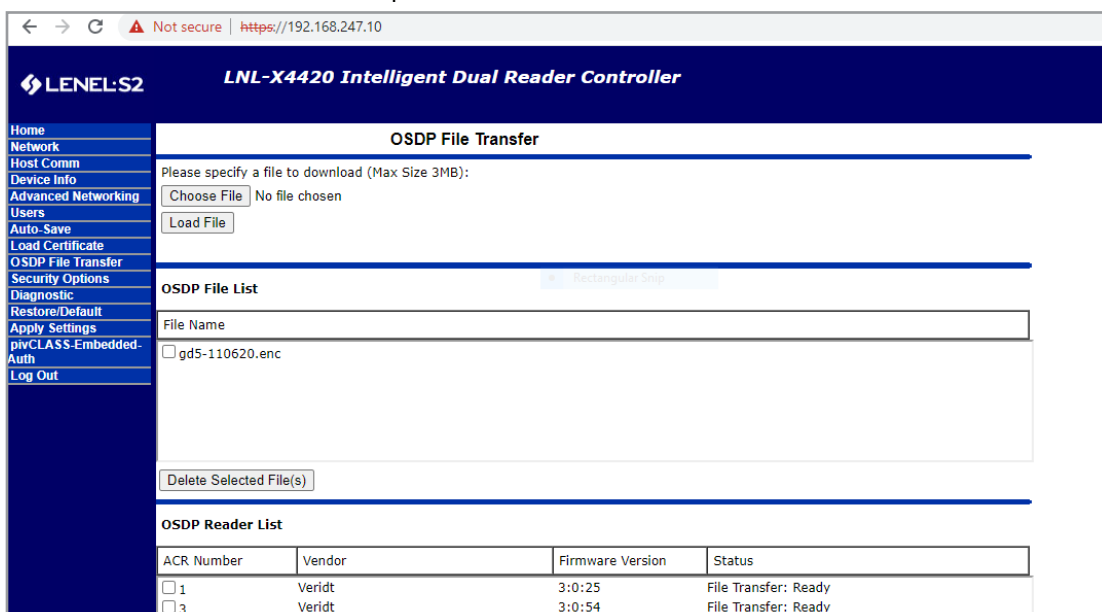
4. Click on Login. Another window will appear to enter the Username and Password.



5. Upon successful Login you will see the window with a menu. Click on OSDP File Transfer to open the File Transfer window.



6. The OSDP File Transfer window will open.



7. Use the Choose File button to locate the new encrypted firmware file.

The screenshot shows the web interface for the LNL-X4420 Intelligent Dual Reader Controller. The page title is "OSDP File Transfer". The left sidebar contains a navigation menu with items like Home, Network, Host Comm, Device Info, Advanced Networking, Users, Auto-Save, Load Certificate, OSDP File Transfer, Security Options, Diagnostic, Restore/Default, Apply Settings, pivCLASS-Embedded-Auth, and Log Out. The main content area has a "Please specify a file to download (Max Size 3MB):" section with a "Choose File" button and a "Load File" button. Below this is an "OSDP File List" section with a "File Name" input field and a list of files: "gd5-110620.enc". At the bottom is an "OSDP Reader List" table.

ACR Number	Vendor	Firmware Version	Status
<input type="checkbox"/> 1	Veridt	3:0:25	File Transfer: Ready
<input type="checkbox"/> 3	Veridt	3:0:54	File Transfer: Ready

8. Click on the Load File button. The Choose File window will clear, and the new firmware file will be listed in the OSDP File List.

The screenshot shows the web interface for the LNL-X4420 Intelligent Dual Reader Controller. The page title is "OSDP File Transfer". The left sidebar contains a navigation menu with items like Home, Network, Host Comm, Device Info, Advanced Networking, Users, Auto-Save, Load Certificate, OSDP File Transfer, Security Options, Diagnostic, Restore/Default, Apply Settings, pivCLASS-Embedded-Auth, and Log Out. The main content area has a "Please specify a file to download (Max Size 3MB):" section with a "Choose File" button and a "Load File" button. Below this is an "OSDP File List" section with a "File Name" input field and a list of files: "gd5-061621.enc" and "gd5-110620.enc". At the bottom is an "OSDP Reader List" table.

ACR Number	Vendor	Firmware Version	Status
<input type="checkbox"/> 1	Veridt	3:0:25	File Transfer: Ready
<input type="checkbox"/> 3	Veridt	3:0:54	File Transfer: Ready

9. Select the OSDP File to be transferred and what reader(s) to be updated. In this example from the OSDP Reader List, clicking the first file gd5-061621.enc, Readers ACR 1 and ACR 3 are to be updated with Firmware version 3:0:24 and 3:0:25

Start the OSDP File Transfer Process by clicking on the Transfer File to Selected Reader(s) button.

The screenshot shows the web interface for the LNL-X4420 Intelligent Dual Reader Controller. The left sidebar contains navigation options: Home, Network, Host Comm, Device Info, Advanced Networking, Users, Auto Save, Load Certificate, OSDP File Transfer, Security Options, Diagnostic, Restore/Default, Apply Settings, piVCLASS-Embedded-Auth, and Log Out. The main content area is divided into two sections: 'OSDP File List' and 'OSDP Reader List'. In the 'OSDP File List' section, the file 'gd5-061621.enc' is selected with a checked checkbox. Below it is a 'Delete Selected File(s)' button. The 'OSDP Reader List' section contains a table with the following data:

ACR Number	Vendor	Firmware Version	Status
<input checked="" type="checkbox"/> 1	Veridt	3:0:25	File Transfer: Ready
<input checked="" type="checkbox"/> 3	Veridt	3:0:54	File Transfer: Ready

Below the table is a 'Refresh Reader List' button and a 'Transfer File to Selected Reader(s)' button. Red arrows in the original image point to the selected file, the selected readers, and the transfer button.

10. An In Progress message will appear to track the progress of the download.

The screenshot shows the 'OSDP File Transfer' section of the web interface. It prompts the user to 'Please specify a file to download (Max Size 3MB):' with 'Choose File' and 'Load File' buttons. Below this is the 'OSDP File List' section, which is currently empty. The 'OSDP Reader List' section contains a table with the following data:

ACR Number	Vendor	Firmware Version	Status
<input type="checkbox"/> 1	Veridt	3:0:25	In Progress... 48 % complete
<input type="checkbox"/> 3	Veridt	3:0:54	In Progress... 16 % complete

Red arrows in the original image point to the progress status for reader 1 and reader 3.

Firmware Updates

Updating Reader Firmware From Web Broser

#125

11. Upon completion of the File Transfer the reader will reboot and under the status in the OSDP Reader List it will show File Transfer: Successful or occasionally File Transfer: Timeout. If a File Transfer: Timeout message occurs, check the Firmware version. If the firmware version number changed then the File Transfer was successful.

The screenshot shows the web interface for the LNL-X4420 Intelligent Dual Reader Controller. The browser address bar shows a Not secure connection to https://192.168.247.10. The interface has a dark blue header with the LENE:L:S2 logo and the device name. A left-hand navigation menu lists various settings. The main content area is titled 'OSDP File Transfer' and includes a file selection area with 'Choose File' and 'Load File' buttons. Below this is an 'OSDP File List' section with a table of files: 'gd5-061621.enc' and 'gd5-110620.enc'. At the bottom is an 'OSDP Reader List' table with columns for ACR Number, Vendor, Firmware Version, and Status. Two red arrows point to the first and last rows of the Reader List table.

ACR Number	Vendor	Firmware Version	Status
<input type="checkbox"/> 1	Veridt	3:0:36	File Transfer: Timeout
<input type="checkbox"/> 3	Veridt	3:0:36	File Transfer: Successful