• TECHNICAL NOTE • Firmware Updates

Veridt Verify · Identify #125

Updating Reader Firmware From Web Broser

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 900W2027 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.

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										A	dvanced	ł														Back 1	to safet	/								

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

	Your connection is not private
	Attackers might be trying to steal your information from 192.168.247.10 (for example, passwords, messages, or credit cards). Learn more
	NET:ERR_CERT_COMMON_NAME_INVALID
	Q To get Chrome's highest level of security, <u>turn on enhanced protection</u>
	Hide advanced Back to safety
	This server could not prove that it is 192.168.247.10 ; its security certificate does not specify Subject Alternative Names. This may be caused by a misconfiguration or an attacker intercepting your connection.
	Proceed to 192.168.247.10 (unsafe)
.veridt.com	VERIDT INC · Middleton, WI 53562



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.

$\leftrightarrow \rightarrow G$	A Not secure https://192.168.247.10
	LNL-X4420 Configuration Manager
	Login
	Enter your user name and password.
	Username:
	Password:
	Login

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

	I NI -X4420 Intelligent Dual Reader Controller
LENEL'S2	
ome	Home
etwork	
avice Info	
Ivanced Networking	Use tabs at left to configure
sers	network, port, and security settings
uto-Save	for this device.
oad Certificate	Ngtes
SDP File Transfer	
ecurity Options	Rectangular Snip
iagnostic	
estore/Default	
pply Settings	
vCLASS-Embedded- ith	(You may enter up to 250 characters excluding ", &, =, %, /, <, >)
0.4	Cause Matter

6. The OSDP File Transfer window will open.

← → C ▲	Not secure https://1	92.168.247.10			
♦ LENEL:S2	LNL-X4	420 Intelligent Dual Read	er Controller		
Home		OSDP File Transfer			
Host Comm	Blooco coocify o file to	download (Max Size 2MP)			
Device Info	Chaoso Eilo No filo	choson			
Users	Choose File No lile	chosen			
Auto-Save	Load File				
Load Certificate OSDP File Transfer					
Security Options Diagnostic	OSDP File List		Rectangular Snip		
Apply Settings	File Name				
pivCLASS-Embedded- Auth	gd5-110620.enc				
Log Out					
	Delete Selected File(s)]			
	OSDP Reader List				
	ACR Number	Vendor	Firmware Version	Status	
		Veridt	3:0:25	File Transfer: Ready	
	3	Veridt	3:0:54	File Transfer: Ready	



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

← → C ▲	← → C ▲ Not secure https://192.168.247.10								
LENEL:S2 LNL-X4420 Intelligent Dual Reader Controller									
Home Network		OSDP File Transfer							
Host Comm Device Info Advanced Networking Users Auto-Save Load Certificate OSDD Etio Transfor	Please specify a file t Choose File gd5-00 Load File	o download (Max Size 3MB): 61621.enc							
Security Options Diagnostic Destate (Default	File Transfer ty Options ostic OSDP File List ostic e Rectangular Ship Settings File Name								
Apply Settings									
pwCLASS-Embedded- Auth Log Out	□ gd5-110620.enc								
	Delete Selected File((\$)							
	OSDP Reader List								
	ACR Number	Vendor	Firmware Version	Status					
	□ 1 □ 3	Veridt Veridt	3:0:25 3:0:54	File Transfer: Ready 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.

← → C ▲	Not secure https ://'	92.168.247.10						
LENEL:S2 LNL-X4420 Intelligent Dual Reader Controller								
Home Network		OSDP File Tra	nsfer					
Host Comm Device Info	Please specify a file t	o download (Max Size 3MB):						
Advanced Networking Users	Choose File No file	chosen						
Auto-Save Load Certificate	Load File							
OSDP File Transfer Security Options Diagnostic	OSDP File List		Rectangular Snip					
Restore/Default Apply Settings	File Name							
pivCLASS-Embedded- Auth	gd5-061621.enc gd5-110620.enc	←						
	Delete Selected File	(s)						
	OSDP Reader List							
	ACR Number	Vendor	Firmware Version	Status				
		Veridt Veridt	3:0:25 3:0:54	File Transfer: Ready File Transfer: Ready				



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Select the OSDP File to be transferred and what reader(s) to be updated. In this example from the OSDP 9. 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.

ork	OSDP File List							
comm :e Info	File Name							
Inced Networking 2 gd5-061621.enc save Save Certificate Pile Transfer rity Options nostic Delete Selected File(s) ASS-Embedded								
								ıt
	ACR Number	Vendor	Firmware Version	Status				
	 ✓ 1 ✓ 3 	Veridt Veridt	3:0:25 3:0:54	File Transfer: Ready File Transfer: Ready				

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

← → C ▲	← → C ▲ Not secure https://192.168.247.10						
∳LENEL:S2	LNL-X4	420 Intelligent Dual Read	ler Controller				
Home		OSDP File Transfer					
Host Comm	Please specify a file to	download (Max Size 2MR)					
Device Info Advanced Networking	Choose File No file	choson					
Users	Choose The No me	CIOSEI					
Auto-Save	Load File						
Load Certificate							
Security Options Diagnostic	OSDP File List		 Rectangular Snip 				
Apply Settings	File Name						
pivCLASS-Embedded- Auth	gd5-061621.enc						
Log Out	G gus-110620.enc						
	Delete Selected File(s)					
	OSDP Reader List						
	ACR Number	Vendor	Firmware Version	Status			
\rightarrow	1 3	Veridt Veridt	3:0:25 3:0:54	In Progress 48 % complete			

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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.

← → C ▲ Not secure https://192.168.247.10							
LNL-X4420 Intelligent Dual Reader Controller							
Home Network		OSDP File Transfer					
Host Comm Device Info Advanced Networking Users Auto-Save Load Certificate OSDP File Transfer	Please specify a file to Choose File No file Load File	download (Max Size 3MB): chosen					
Security Options Diagnostic Restore/Default Apply Settings pivCLASS-Embedded- Auth Log Out	OSDP File List File Name gd5-061621.enc gd5-110620.enc		. Rectangular Snip				
	Delete Selected File(s	3)					
	ACR Number	Vendor	Firmware Version	Status			
\rightarrow	□ 1 □ 3	Veridt Veridt	3:0:36 3:0:36	File Transfer: Timeout File Transfer: Successful			

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