# Local Firmware Upgrade via PCLink

## NEO HS2016 / HS2032 / HS2064 / HS20128 to v1.37

From time to time, there are enhancements and feature upgrades to most electronic components in the security industry. DSC has designed the NEO platform to be flash upgradable, allowing the platform to migrate into the future. This process allows you to upgrade the firmware, instead of replacing the hardware.

Firmware upgrades are now available for the NEO panels, selected modules and communicators.

Currently there are upgrade firmware files available for the following NEO equipment:

| Panels | Modules | Communicators * |
|---|---|---|
| HS2016 | HSM2HOST | TL280 |
| HS2032 | HS2LED16 | TL280R |
| HS2064 | HS2LCD | LE2080 |
| HS2128 | HS2LCDRF | LE2080R |
| | HS2ICON | TL280LE |
| | HS2ICONRF | TL280LER |
| | HS2TCHP | |

* process not described in this document

- ***Tech Note:*** The IP / Cell Communicators are upgraded via Ethernet / Connect24.

The firmware upgrade process is completed through the Flash Wizard feature built into the DLS5 software.

The DLS5 software can be downloaded from the DSC website:

http://www.dsc.com/index.php?n=library&o=software

*** Dealer Login Required ***

To register for a Dealer Login visit:

http://www.dsc.com/index.php?o=register

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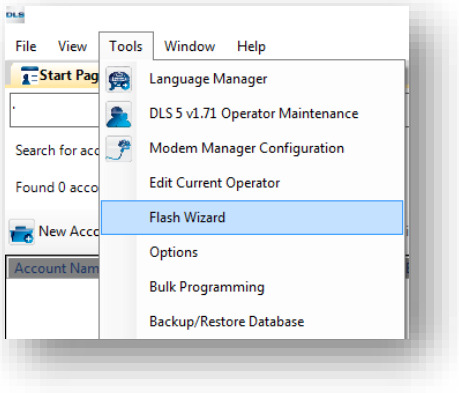
## Step 1:

On the Start Page open or create an account and upload the existing panel's programming.
*** Save account file and disconnect software session for the panel ***

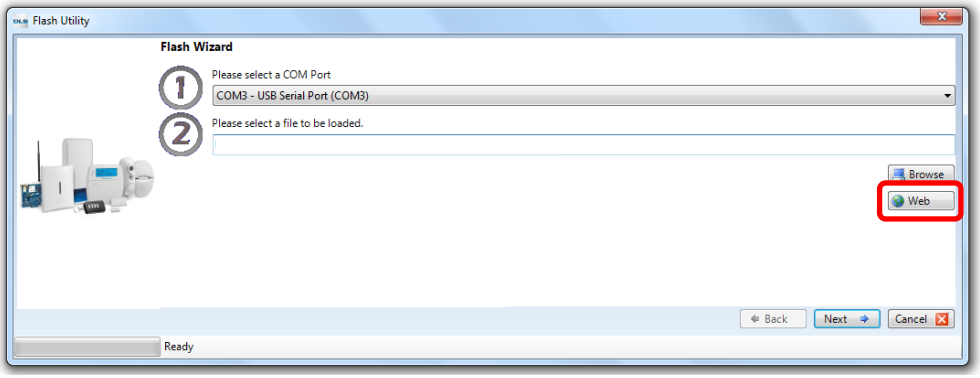
## Step 2:

Select 'Tools' / 'Flash Wizard':

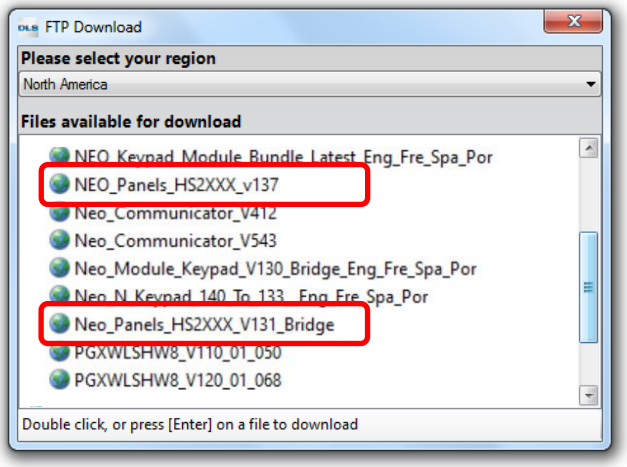



## Step 3:

A) Download the Firmware Files by clicking on 'Web': ***** This step requires internet access *****




B) Double click on the desired Firmware File to download:




**For the NEO HS2XXX panel:**
Neo_Panels_HS2XXX_V131_Bridge

NEO_Panels_HS2XXX_V137

**For the HSM2HOST transceiver:**
Neo_Module_Keypad_V130_Bridge_Eng_Fre_Spa_Por

NEO_Keypad_Module_Bundle_V151_Eng_Fre_Spa_Por

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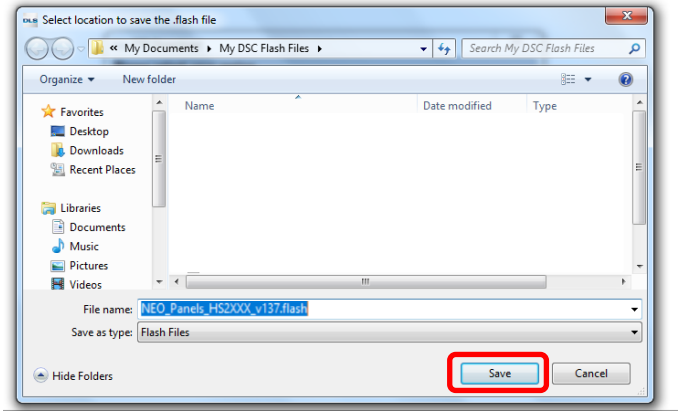
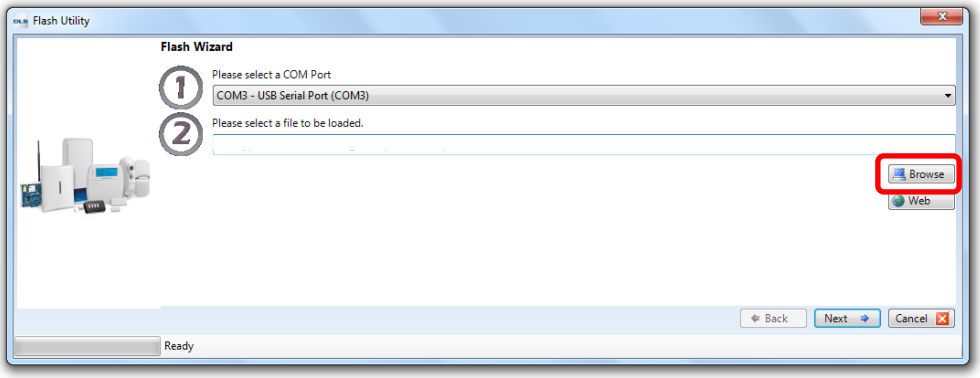
C) Save each Firmware File by clicking ‘Save’:



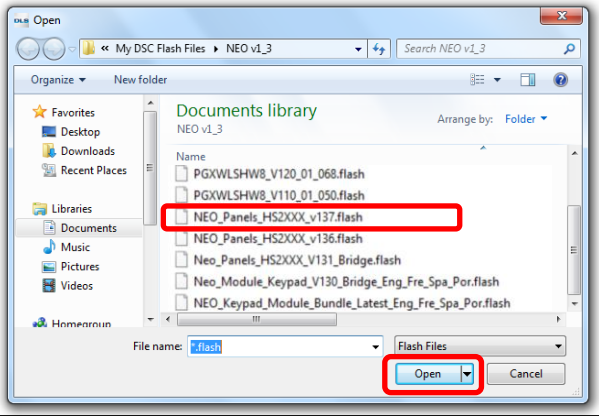

## Step 4:

Begin the Firmware Upgrade process:

A) Select the Firmware File by clicking on ‘Browse’:




B) Select the desired Firmware File and click on ‘Open’: ***** UPGRADE the panel first *****




**Option 1:**

For panels v1.13 and older first run the:

- Neo_Panels_HS2XXX_V131_Bridge.flash

Then run the:

- NEO_Panels_HS2XXX_V137.flash

**Option 2:**

For panels v1.14 and newer only run the:

- NEO_Panels_HS2XXX_V137.falsh

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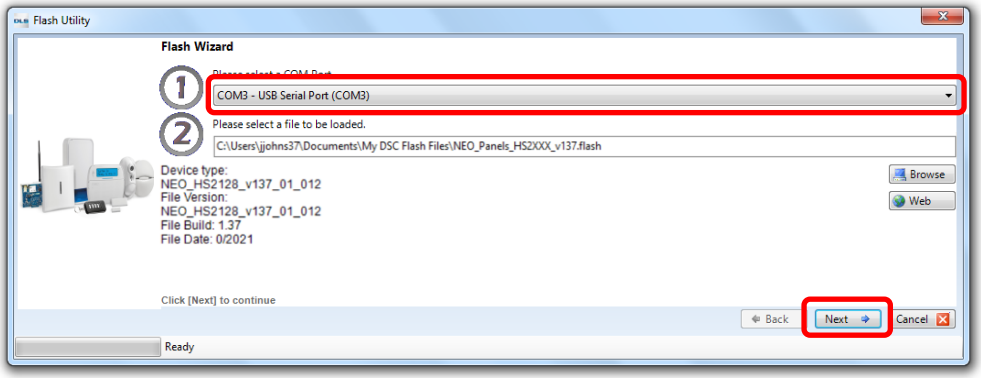
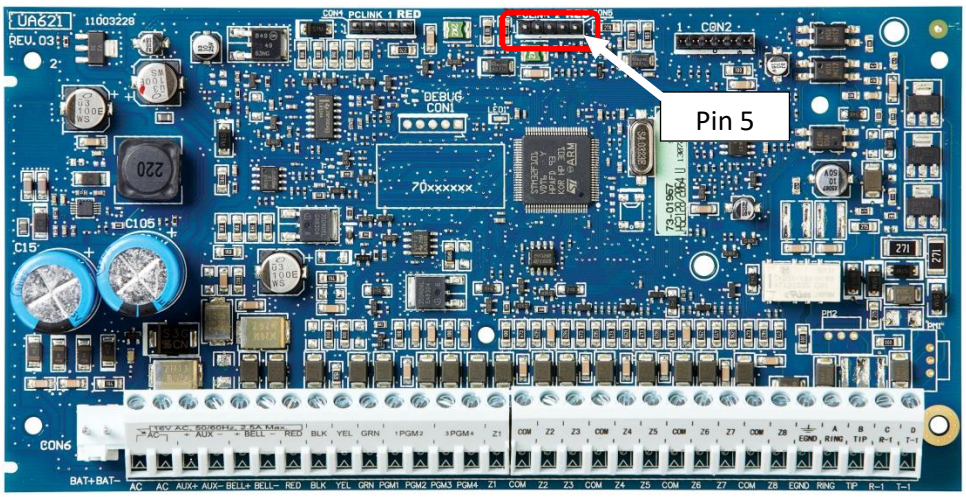
C) Select and verify the COM Port and click on 'Next':

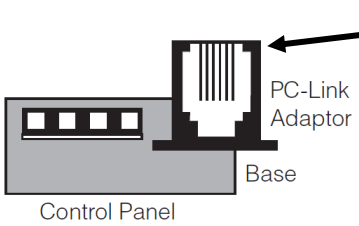



D) Connect the PC-Link Adapter onto the PCLINK_2 at the top of the control panel. The 4 Pin PC-Link Adapter connects to the first 4 pins of PCLINK_2, leaving 5 pin "RED" exposed.




➢ ***Tech Tip:*** YOU MUST USE PCLINK_2 FOR THE FLASH UPDATE PROCESS.

➢ ***Tech Tip:*** The PC-Link Adapter is connected to the panel "jack-side up".



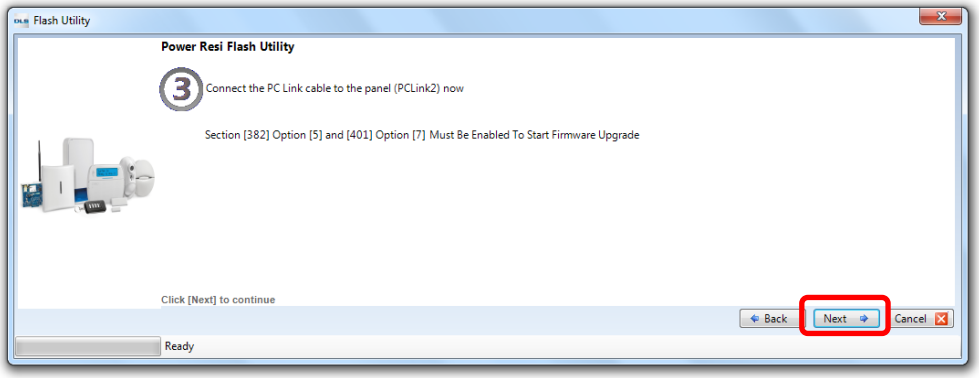

E) Confirm that the required programming settings are correct:

Section [382] toggle Option 5 "ON" ~ Alternate Communicator Enabled - Y

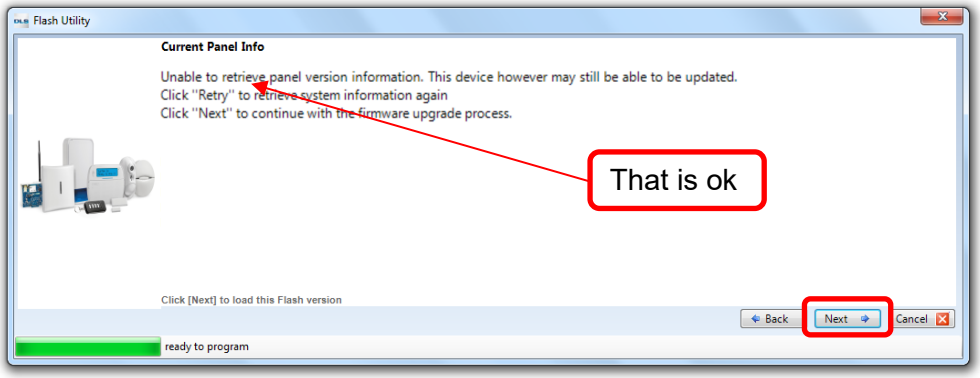
Section [401] toggle Option 7 "ON" ~ Alternate Communicator DLS – Y

# Local Firmware Upgrade via PCLink

Click on ‘Next’:

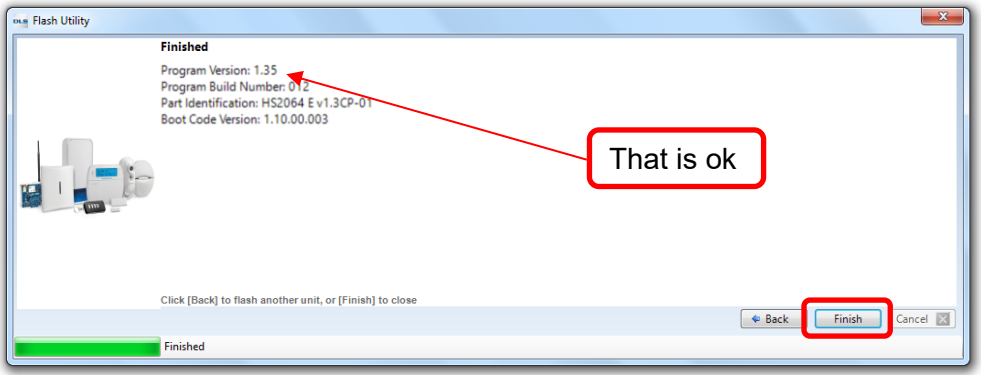



F) Once the Firmware Upgrade process has confirmed the current firmware, click on ‘Next’:




G) The DLS5 Firmware Upgrade process with automatically proceed:

- If the ‘Neo_Panels_HS2XXX_V137’ was run – click on ‘Finish’.
- If the ‘Neo_Panels_HS2XXX_V131_Bridge’ was run – click on ‘Back’ to run the ‘Neo_Panels_HS2XXX_V137’ to finish the Flash Upgrade process.




H) If any modules require firmware upgrades, click on ‘Back’ and repeat Step 3 and Step 4 for each desired firmware file.

I) Process is Complete!

# Local Firmware Upgrade via PCLink

- ***Tech Tip:*** If an Alternative Communicator is not going to be reconnected or used, change the following programming in Section [382] back to default:
  Section [382] toggle Option 5 “OFF” ~ Alternate Communicator Enabled - N

## Notes:

### 4.7.6 Remote Firmware Upgrade

Firmware upgrades can be automatically pushed to the alarm panel and modules from Connect 24 or DLS. A message is displayed on LCD keypads indicating a firmware upgrade is available. On all keypads, the blue proximity tag bar flashes one second on - one second off.

Users authorize the firmware upgrade through [*][6][Master Code][17].

During the update, a message indicating that a firmware upgrade is in progress is displayed on the LCD keypad. If the firmware update fails, an error message is displayed on LCD keypads.

Firmware updates are performed under the following conditions:

- The system is not armed
- No AC trouble is present
- No low battery trouble is present
- No FTC trouble is present
- Every alarm in memory has been viewed
- No events are being communicated
- An alternate communicator is present

Remote firmware upgrade is possible for the following modules:

- hardwired keypads, including HS2LCDRF
- wireless transceivers
- alternate communicators

**Note:** For UL listed installations, do not use remote programming unless an installer is on the premises.

### 4.8 Local Firmware Upgrade

Alarm panel firmware can be upgraded locally via DLS. Firmware upgrade prevention rules are ignored when performing a local firmware upgrade.

**Note:** [382][5] must be enabled to perform a local firmware upgrade.

To perform a local firmware upgrade:

1. Remove the front cover of the alarm panel and plug the DLS header into the PCLink 2 connector on the alarm controller.
2. Open the Flash Utility within DLS, select the latest firmware file from the Web or browse to a saved flash file on your hard drive. Follow the steps as prompted by the Flash Utility application. A message is displayed when download is complete.
3. Once the firmware update is complete, the system powers up.