



CAUTION: Elevator control products must be installed by elevator personnel trained in the construction, maintenance, repair, inspection, and testing of elevator equipment. Elevator personnel must comply with all applicable safety codes and standards.



CAUTION: Every safety precaution, whether specifically stated in this document, must be implemented when installing, adjusting, or servicing elevator equipment. All safety precautions must be followed to ensure the safety of elevator personnel and the general public.



CAUTION: All temporary connections must be removed before placing the elevator in service.



ATTENTION: Observe precautions and exercise good practices when handling electrostatic sensitive devices.

About This Document

This document provides step-by-step instructions for updating the firmware on the DRV-0418N NEXUS drive. The DRV-0418N is an all-in-one drive and control board unit for the MOVFR3 , MONXT, and MONXT-OMNI door operators. The latest firmware version can be downloaded from the Vantage website via the link included in this document.

Read this entire document before proceeding.

Free Technical Support is available to all customers Monday through Friday from 6:00 AM to 6:00 PM (EST), and on weekends from 8:00 AM to 4:30 PM (EST). To receive assistance, please call 877.425.7778.

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Section 1 Material and Downloads Required

Table 1: Material and downloads required to update the DRV-0418N NEXUS drive unit firmware.

QTY	ITEM	DETAILS
1	Customer laptop/PC (not provided by Vantage)	Must have operating system of Windows 10 or greater.
n/a	Delta FlashTool Software Download	Downloaded from Vantage website and installed on customer PC to update firmware.
n/a	DRV-0418N Firmware Version File	Downloaded from Vantage website.
1	USB A-B Cable (not provided by Vantage)	Typical printer cable, used update firmware. (reference Figure 1).
1	DRV-0420N Parameter Unit (NEXUS Version)	Must use version that is labeled as "NEXUS" in the top-left. (reference Figure 2).



Figure 1: USB A-B Cable.



Figure 2: Parameter Unit, NEXUS Version.



NOTE: Some older MONXT/MONXT-OMNI door operators may be equipped with an earlier version of the DRV-0420N parameter unit. After updating the DRV-0418N firmware, the newer version of the DRV-0420N parameter unit must be used. Refer to [Figure 2](#) to verify that the parameter unit displays "**NEXUS**" in the upper-left corner - this is the newer version. If the newer DRV-0420N parameter unit is not available onsite, contact Technical Support.

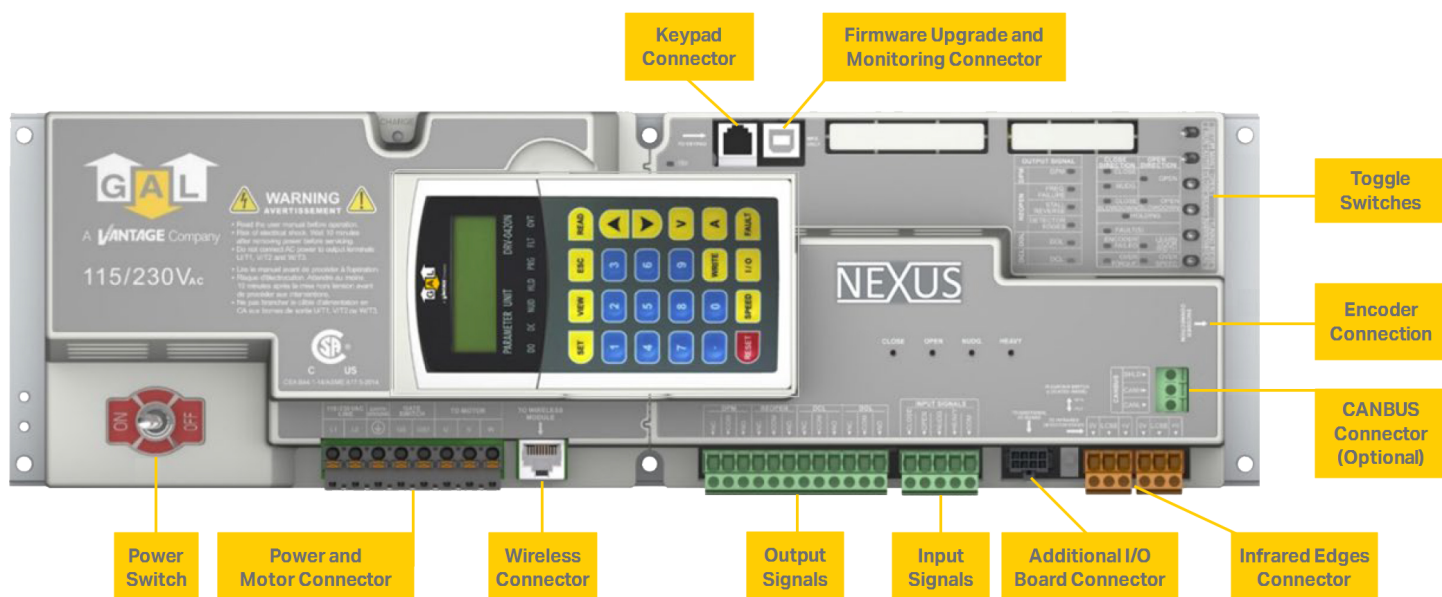


Figure 3: DRV-0418N, NEXUS drive anatomy.



CAUTION: Before accessing the cartop and/or working on the door operator drive, at a minimum, activate the cartop stop switch, then test and verify that the elevator car is inoperable.

Section 2 Verify the Existing Firmware Version

1. Isolate power to the DRV-0418N NEXUS drive.
2. Connect the existing parameter unit to the NEXUS drive.
3. Restore power to the NEXUS drive.
4. Set the RUN/SETUP toggle switch to SETUP.
5. Set the MAN/AUTO toggle switch to MAN.
6. Set Parameter 15 to 6301 to allow user access to all parameters:
 - Press "SET"
 - Enter "15"
 - Press "READ"
 - Enter "6301"
 - Press "WRITE"
7. To view the firmware version on the parameter unit:
 - Press "VIEW"
 - Using the UP/DOWN arrow keys, navigate to "9. DISP. GROUP"
 - Press "READ"
 - Using the UP/DOWN arrow keys, navigate to "D16"
 - "D16" will display the firmware version number. Write this down for future reference.
8. To view the firmware version date code on the parameter unit:
 - Press "SET"
 - Enter "303"
 - Press "READ"
 - This will display the firmware version date code. Write this down for future reference.

Section 3 Instructions for Downloading the Delta FlashTool and NEXUS Firmware

- 1. Go to the Vantage website: <https://www.vantageelevation.com/nexus-drive-firmware/>.
- 2. Click on "DOWNLOAD FIRMWARE".
(reference [Figure 4](#)).
- 3. A ZIP file will be downloaded to your PC.
- 4. Locate the ZIP file, right-click on the folder name and "Extract All".
- 5. Open the extracted ZIP folder and verify that its contents match those shown in [Figure 5](#).
The firmware version (BIN file) may have a later version number or newer date code than the one shown in this document.
- 6. In the extracted ZIP folder , click on the "DELTA_IA-MDS_FlashTool..." file and follow the prompts to install the Delta FlashTool onto your PC.

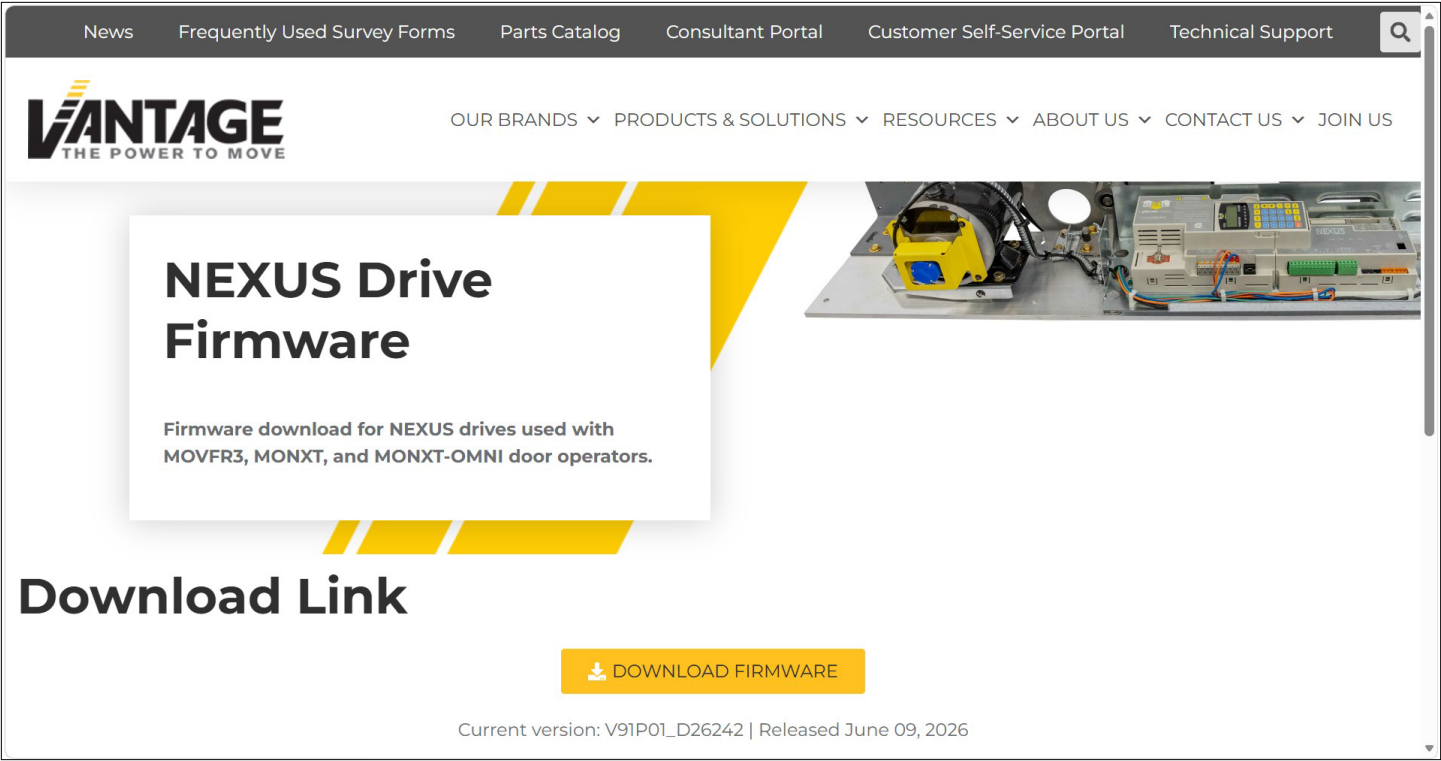


Figure 4: Vantage website, NEXUS firmware download.

Name	Type
 DELTA_IA-MDS_FlashTool-V1-0-3-1_SW_20180822	Application
 NEXUS_v91p01_d26242.bin	BIN File
 WORK INSTRUCTIONS_DRV-0418N_FIRMWARE_UPDATE	Adobe Acrobat Docu...

Figure 5: NEXUS firmware extracted ZIP folder contents.

Section 4 Instructions for Updating Firmware

1. Power off the NEXUS drive at the mainline disconnect or at the toggle switch locally on the drive. DO NOT power on NEXUS drive during the entire firmware update process.
2. Using the USB A-B cable, connect the PC to the DRV-0418N drive.
3. Launch the Delta_FlashTool software on the PC (reference [Figure 6](#)).
4. On the "Channels" dropdown, select the COM# port that is used on the PC with the USB A-B cable.
5. Click "Connect". If the wrong port was selected, it will display the message ,"COMPORT FAIL". Choose another comport and try again.
6. On the "Please choose target" dropdown, select "EDS/DD/APF2000".
7. Click "Load" to load the firmware file (select the BIN file that was included in the ZIP file).
8. Click "FW Update".
9. Wait for the pop-up window "Firmware Update Success" and click "OK".
10. Remove the USB A-B cable from the NEXUS drive.

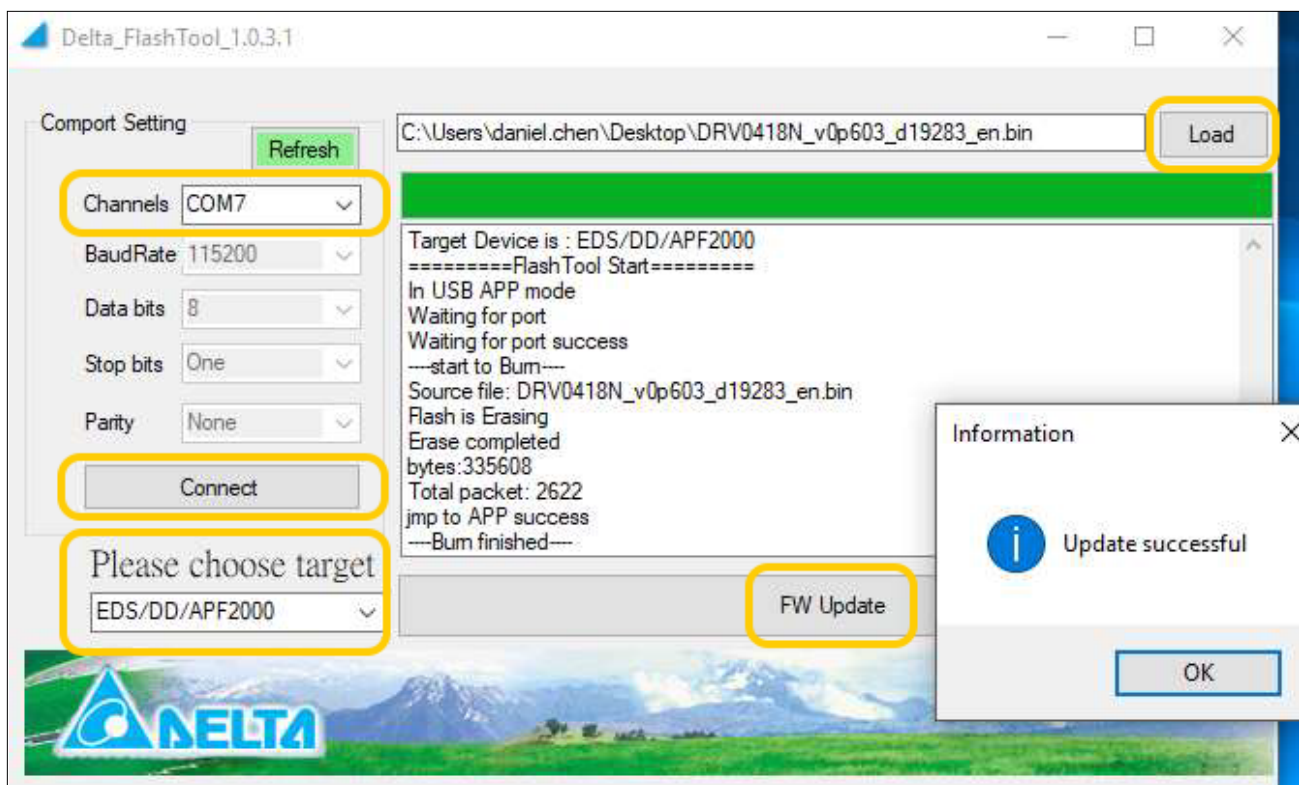


Figure 6: Delta FlashTool operating window.

Section 5 Verify the Firmware was Successfully Installed

1. Connect the NEXUS DRV-0420N parameter unit to the NEXUS drive.
2. Restore power to the NEXUS drive.
3. Set the RUN/SETUP toggle switch to SETUP.
4. Set the MAN/AUTO toggle switch to MAN.
5. Set Parameter 15 to 6301 to allow user access to all parameters:
 - Press "SET"
 - Enter "15"
 - Press "READ"
 - Enter "6301"
 - Press "WRITE"
6. To view the firmware version on the parameter unit:
 - Press "VIEW"
 - Using the UP/DOWN arrow keys, navigate to "9. DISP. GROUP"
 - Press "READ"
 - Using the UP/DOWN arrow keys, navigate to "D16"
 - The firmware version should reflect the *firmware version file name*.
 - Example: the bold text in file name "v**91p01**_d26242" will yield a firmware version number of 91.01 in parameter "D16".
7. To view the firmware version date code on the parameter unit:
 - Press "SET"
 - Enter "303"
 - Press "READ"
 - The date code should reflect the *firmware version file name*.
 - Example: the bold text in file name "v91p01_**d26242**" will yield a firmware version date code of 26.242 in parameter "303".
8. Compare the new firmware version and date code to the values that were previously written down in **Section Two: Verify the Existing Firmware Version, Steps 7 and 8.**

Section 6 Final Steps

Relearn the doors using the NEXUS DRV-0420N parameter unit. If needed, use the installation and service manual that was originally provided with the door operator.

1. Ensure the doors are fully closed.
2. Ensure the RUN/SETUP toggle switch is set to to SETUP.
3. Ensure the the MAN/AUTO toggle switch is set to to MAN.
4. Set Parameter 63 to 1 to enable the Auto-Learn function:
 - Press "SET"
 - Enter "63"
 - Press "READ"
 - Enter "1"
 - Press "WRITE"
5. Set the TUNING/NARROW toggle switch to TUNING.
6. Follow the prompts on the parameter unit. Use the keypad or arrow keys to adjust the values.
 - Press "WRITE" to enter and move to the next prompt:
 - Select motor and operator type
 - Enter door speed
 - Enter door opening size (in, inches)
 - Enter door weight (in-lbs)
7. The LEARN DOOR WIDTH LED should be flashing during the turning process. It will turn off after turning is complete.
8. Ensure the door operator is working as expected and perform any code required testing as needed.
9. This concludes the work instructions. Follow any additional company policies and procedures before returning the car to service or its previous mode of operation.

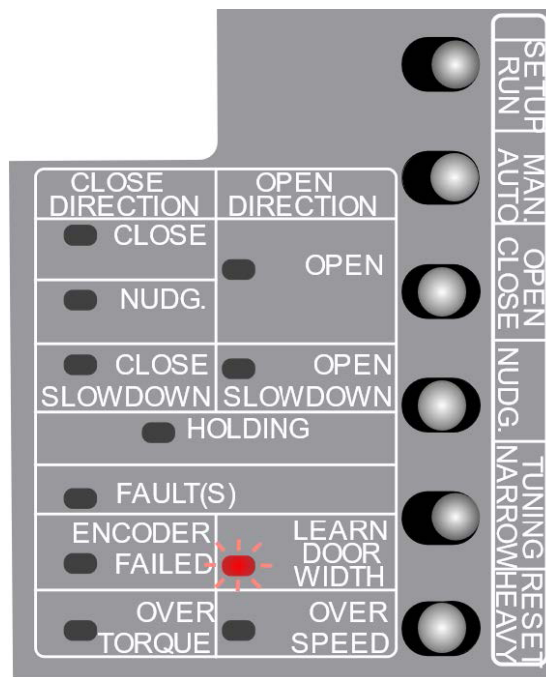


Figure 7: Toggle switches and LEDs.

END OF DOCUMENT

Document ID: DOC-0179N

Revision: 1.0



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