

## Raven Products – Release Notes – 2015

### **IMPORTANT:**

When completing an update from 1.X.X to 2.X.X be sure to keep thumb drive in the display until the update is fully complete as stated in the Raven update instructions.

When completing and update from 2.X.X to 2.0.5.5 be sure to follow instructions for when to remove the thumb drive.

### **Raven Viper 4 – HMC # 693794**

<u>Product</u>	<u>Rev #</u>	<u>Date Released</u>	<u>Change Description</u>
Viper 4	2.1.9.4	10.23.2015	<p>New Features</p> <ul style="list-style-type: none"> <li>• Raven 600S integration; ability to configure through SmarTrax</li> </ul> <p>Defects Resolved:</p> <ul style="list-style-type: none"> <li>• Fix to bin chaining time to make time to application and advancement work correctly</li> <li>• Fixed Bin Chaining advance timing bugs</li> <li>• Fixes to database to improve update and backdating instances</li> <li>• PPP convergence criteria changed to 0.2 meters</li> <li>• Fixed scout version issues when creating and reverting scout objects</li> <li>• Hardware status images updated on the hardware diagnostics screen</li> <li>• Updated internal GPS receiver configuration which will allow faster convergence</li> </ul> <p>Enhancements:</p> <ul style="list-style-type: none"> <li>• New RBR implements</li> </ul>
	2.1.7.14	5.21.2015	<p>New Features:</p> <ul style="list-style-type: none"> <li>• Product profiles can to be used across all compatible machine profiles (Previously a product profile could be used only with the machine profile for which it was created)</li> <li>• Machine configuration change notifications</li> <li>• GPS handling to accommodate for negative speed and negative altitude</li> <li>• Better user experience within file manager</li> <li>• Added AutoBoom Profiles</li> </ul> <p>Defects Resolved:</p>

			<ul style="list-style-type: none"> <li>• System-wide improvements to stability and responsiveness</li> <li>• Fixes to Over The Air (OTA) Software Updates System</li> <li>• Fixes to Speed Calibration Values</li> <li>• Resolved issues that occasionally exhibited a system shutdown during: <ul style="list-style-type: none"> <li>• Last Pass Guidance</li> <li>• Machine Configuration</li> <li>• GPS system processing</li> <li>• Over the Air (OTA) update</li> <li>• Scout Group import with Grower Farm Field designation</li> <li>• Kinze planter reopen job</li> </ul> </li> <li>• Fixes to show vehicle icon when not selected to English</li> <li>• Fixes to Boundary pause functionality</li> <li>• Fixes issues with adding ISO booms</li> <li>• Fixes to section to switch mapping</li> <li>• Fixes to file export including <ul style="list-style-type: none"> <li>• Not recognizing USB drives</li> <li>• File listing order</li> </ul> </li> <li>• Fixes “No VTG” issues</li> <li>• Fixes for screen calibration button not showing at times</li> <li>• Fixes for database corruption issues</li> <li>• Fixes for Bin Chaining</li> <li>• Fixes to the EULA not displaying correctly</li> <li>• Fixes for Autofold configuration</li> </ul> <p>Enhancements:</p> <ul style="list-style-type: none"> <li>• Updated language translations</li> <li>• Updated Accuflow HP+</li> </ul>
	2.0.5.5	5.16.14	<ul style="list-style-type: none"> <li>• New Features: <ul style="list-style-type: none"> <li>• Bin Cleanout Functionality</li> <li>• Boom capacity alarm and widget</li> <li>• Support for GreenSeeker variable rate application, available with software unlock</li> <li>• Shapefile field boundary import</li> <li>• Field boundary area display</li> <li>• Manual pump and fan control in product configuration widget</li> </ul> </li> <li>• Additional machine profiles</li> <li>• Adds support for SideKick Pro injection alarm options</li> <li>• Adds support for Slingshot GS and Satellite GS</li> <li>• Enhancements to bin chaining</li> <li>• Updated field background for improved visibility</li> <li>• Updated translations</li> <li>• Updated EULA</li> </ul>

			<p>Major Defects Resolved:</p> <ul style="list-style-type: none"> <li>• System-wide improvements to stability and responsiveness</li> <li>• Improvements to serial device detection response time</li> <li>• Improvements to system boot time</li> <li>• Improvements to Accuboom coverage painting</li> <li>• Improvements to file management</li> <li>• Fixes issue that occurs when sections not entered in wired as order</li> <li>• Fixes issue with speed source setting reverting from radar to wheel</li> <li>• Fixes issue that would prevent ability to calibrate or prime SideKick Pro</li> <li>• Fixes issue with section position and painting</li> <li>• Fixes issue with units displayed for NH3 application on reports</li> <li>• Fixes issue with non-consecutive product numbering</li> <li>• Fixes to job area and volume calculations</li> <li>• Fixes to wind direction indicator in weather station user interface</li> <li>• Fixes and improvements to external lightbar</li> </ul>
	2.0.3.14	5.9.14	<ul style="list-style-type: none"> <li>• Fixes for display crashing</li> <li>• Fixes for SideKick Pro Initial setup</li> </ul>
	1.0.4	11.15.13	<ul style="list-style-type: none"> <li>• Added initial support for the following languages: Spanish, Portuguese, French, German, and Russian</li> <li>• Added profiles for Hagie Sprayers</li> </ul>
	1.03	10.1.13	<ul style="list-style-type: none"> <li>• New Product Release</li> </ul>

## Raven Products – Release Notes – 2014

### Raven Viper Pro – HMC # 693401

<u>Product</u>	<u>Rev #</u>	<u>Date Released</u>	<u>Change Description</u>
Viper Pro	3.9	8.08.13	<ul style="list-style-type: none"> <li>• HAS NOT BEEN TESTED BY HMC ENGINEERING</li> </ul>
	3.7	3.25.13	<ul style="list-style-type: none"> <li>• Reconstruction of sidekick Pro diagnostics screen</li> <li>• Multiple enhancements to the handling of granular application with the ability for advanced bin-chaining, bin cleanout, and inter-bin delays.</li> </ul>

### Raven Envizio Pro / Envizio XL– HMC # 693321 / 693638

<u>Product</u>	<u>Rev #</u>	<u>Date Released</u>	<u>Change Description</u>
E-Pro / XL	3.7	12.11.13	<ul style="list-style-type: none"> <li>HAS NOT BEEN TESTED BY HMC ENGINEERING</li> </ul>
	3.6	7.02.13	<ul style="list-style-type: none"> <li>SmarTrax MD Support</li> <li>Weather Station Support</li> <li>Prescription map rate bump</li> <li>Low speed mode enhancement with granular control</li> </ul>
	2.3	7.08.10	<ul style="list-style-type: none"> <li>Many additional features, but must have an activation key - must contact Raven support if software version is below 2.3.</li> </ul>

**SCS 5000 - HMC # 693667**

<u>Product</u>	<u>Rev #</u>	<u>Date Released</u>	<u>Change Description</u>
SCS 5000	2.0	6.1.12	<ul style="list-style-type: none"> <li>Software does not have "Hagie" branded logo</li> </ul>

**SCS 4600 -HMC # 690986**

<u>Product</u>	<u>Rev #</u>	<u>Date Released</u>	<u>Change Description</u>
SCS 4600	2.0	6.1.2	<ul style="list-style-type: none"> <li>No details listed</li> </ul>
	1.90	12.15.10	<ul style="list-style-type: none"> <li>New diagnostic screen for use with SideKick Pro</li> <li>PSI or RPM will display next to the product it is associated with on the run screen (if a RPM or PSI sensor is installed)</li> <li>Speed data now saves in data log files</li> </ul>

**SCS 460 - HMC # 693667**

<u>Product</u>	<u>Rev #</u>	<u>Date Released</u>	<u>Change Description</u>
SCS 5000			<ul style="list-style-type: none"> <li>Nothing on website??</li> </ul>

**Raven Products - Release Notes - 2015**

**SmarTrax 3D - identifier "p269"**

<u>Product</u>	<u>4</u>	<u>Date Released</u>	<u>Change Description</u>
3D	7.0.18	10.29.2015	<ul style="list-style-type: none"> <li>• Release of Steering Profile for Hagie DTS10 MY 2016</li> <li>• Cannot configure 600s GPS, which will be fixed in the next firmware release</li> </ul>
	7.0.14	4.24.2015	<ul style="list-style-type: none"> <li>• Enhanced GPS Filtering</li> <li>• Speed Compensation</li> <li>• Calibration and Line Acquire Improvements</li> </ul>
	6.0.17	6.22.13	<ul style="list-style-type: none"> <li>• SmarTrax steering node software. Modifications for front mounted booms.</li> </ul>
	5.8.06	12.16.11	<ul style="list-style-type: none"> <li>• Initial software release for front mounted sprayers.</li> </ul>

## Raven Products – Release Notes – 2014

### Product Control Node – identifier “p279”

<u>Product</u>	<u>Rev #</u>	<u>Date Released</u>	<u>Change Description</u>
PCN	2.30.18	6.6.2015	<ul style="list-style-type: none"> <li>• Improvements made for AccuFlow HP+</li> <li>• Added inverted master output for liquid flow return valve</li> <li>• Added support for Remote Tank Throttle command via J1939</li> <li>• Added support for Remote Tank Fill Request via Raven CAN</li> <li>• Added additional hysteresis to tank fill flowmeter sloshing algorithm, Improvements made for spinner rpm exceeding 10,000, and Corrected AccuFlow HP (NH3 Boost) control mode from going to maximum duty cycle when sections are shut off</li> </ul>
	2.0.6	4.10.13	<ul style="list-style-type: none"> <li>• Known issues – SCS 5000 does not function correctly when holding the “increase or decrease” button.</li> </ul>

### Single Product Node–identifier “p149”

<u>Product</u>	<u>Rev #</u>	<u>Date Released</u>	<u>Change Description</u>
SPN	1.54	5.6.13	<ul style="list-style-type: none"> <li>• Older SPN node (Gen I) – no release notes from Raven.</li> </ul>

### Single Product Node–identifier “p293”

<u>Product</u>	<u>Rev #</u>	<u>Date Released</u>	<u>Change Description</u>
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SPN	2.15.07	7.11.13	<ul style="list-style-type: none"> <li>Newest SPN node (Gen II) - no release notes from Raven.</li> </ul>
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**Boom Sense Node-identifier "p143"**

<u>Product</u>	<u>Rev #</u>	<u>Date Released</u>	<u>Change Description</u>
BSN	1.70.02	5.20.2013	<ul style="list-style-type: none"> <li>Single Boom Sense node - no release notes from Raven.</li> </ul>

**Hagie SideKick PRO- identifier "p359"**

<u>Product</u>	<u>Rev #</u>	<u>Date Released</u>	<u>Change Description</u>
SideKick	1.21.04	9.4.13	<ul style="list-style-type: none"> <li>Single Boom Sense node - no release notes from Raven.</li> </ul>

# Viper® 4 Software Update Details

Version: 2.0.5.5  
Release Date: 05/15/14

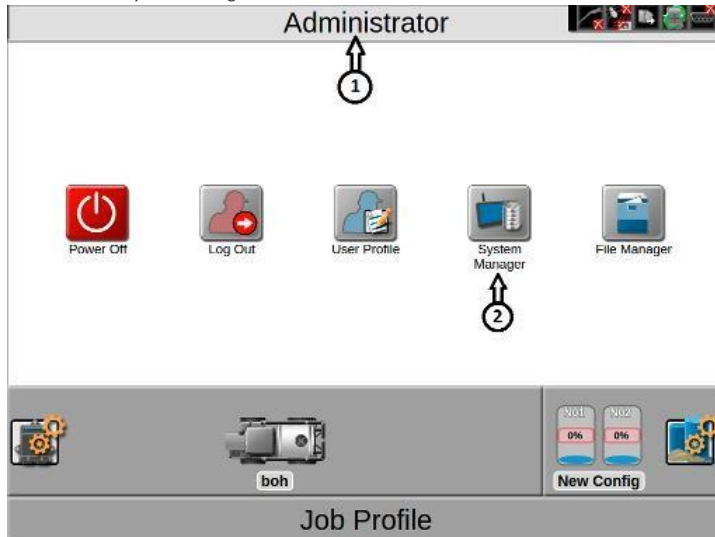
[\[Print this Page\]](#)

DOWNLOAD UPDATE

Before Proceeding Please Check the Software Version Number

To check the software version number:

1. When outside of a job, click on "Administrator" at the top of the screen.
2. Click on the System Manager Button



3. Click on the first tab of the dialog
4. The version number appears beside "Current Version"



## Download and Installation Instructions

[Download instructions to Update from 1.0.X](#)

[Download instructions to Update from 2.0.X](#)

# Updating From 1.0.X

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[Download UpdateOS 2.0.5.zip](#)

## Conversion Update Process

This update process will allow a system booting into ROS version 1.0.X version to be updated to 2.0.X.

**\*\*IMPORTANT: Please Read\*\*:** This update process will wipe/remove all files currently installed on your thumb drive! Copy or move all files prior to starting the process. If backing up files via a thumb drive, please make sure you use 2 different thumb drives.

## When to Use This Process

This update process will be a one-time update and will only be required to update a Viper 4 from 1.0.X to 2.0.X ROS.

**NOTE:** Any versions lower than 1.0.X ROS\* will first need to be updated to 1.0.X before beginning this update process. (\*All previous versions must be  $\geq 0.0.264$  to update to 1.0.X)

## Disclaimer

Normal updates allow for automatically rolling back to the previous version - this update will not allow for roll backs.

1. Future updates will allow for rolling back to the previous version.
2. All files on the USB thumb drive used will be LOST.
3. Do not power down the unit while the update is in progress. It is recommended to leave the engine running during this process.

## Equipment Needed

1. You will need a blank USB thumb drive (or a USB thumb drive that can have all files removed).
2. It is recommended to use a minimum USB Thumb Drive size of 4GB (SanDisk is a quality model).
3. You will need a copy of the UpdateOS\_2.0.5.zip file.

## Installation Procedure:

If the USB thumb drive has previously been used with the Viper 4, it will have a "Raven" folder already installed.

**This process may take up to 15 minutes to fully complete. Do NOT remove the flash drive until the upgrade procedure is complete.**

1. Insert USB thumb drive into computer
2. Create a New folder on the Root Directory and name it Raven if it does not already exist.



3. Open the Raven folder and create a New Folder and name it Updates. File structure should appear as follows:



4. Download the appropriate update: [Download UpdateOS 2.0.5.zip](#)
5. Select the "Save" option to save the software to the home or office computer. It is recommended to select a commonly used download directory or a destination which will be easy to locate after the download completes.  
*Note: It may be necessary to accept any security or warning prompts displayed by the browser or computer system to successfully save the software update to the computer.*
6. Insert your USB thumb drive with the File Structure created above into an available USB port on the computer.
7. Copy the update file from the download location into the Updates folder within the Raven directory on the root of the flash drive (see below example). Please allow a few minutes for this step.



8. Eject the USB thumb drive from your PC
9. Plug the USB thumb drive into an operational Viper 4 unit that is already powered up
10. Wait approximately 1.5 minutes to allow for the update to be detected.
11. **Ensure that all personal files have been removed from your USB thumb drive. After selecting the install all files will be removed!**
12. Select the Installation icon on the screen to begin the installation
13. Confirm you would like to update by selecting the "Yes" button.
14. Automated Installation Begins
  - Approximate Timeline
  - ROS Update in process: 2min 30 seconds
  - Windows Shutdown and Restart: 1 minute
  - Update screen: 5-15 minutes depending upon the amount of jobs stored on the unit
  - First Startup after update: 2 minutes. Do not interrupt power during this stage of the install process.
15. Perform Touchscreen Validation  
*Note: Touchscreen validation will be prompted upon each startup until this is performed.*
16. Verify Update has completed

17. Within Administrator, go to 'System Manager.
18. Under 'Software Update' verify 'Current Version' is 2.0.5.
19. Congratulations! Successful Conversion is Complete

## Troubleshooting

1. Failure to Install
  - Attempt the installation with another USB Thumb drive
  - Verify the file downloaded correctly (see Verification of Download below)

## Verification of Download:

1. Download WinMD5Free
2. Extract the files to your desktop
3. Execute "WinMD5.exe"
4. Browse to the location and select the update file downloaded above.
5. Copy and paste the MD5sum from the table below into the Original file MD5 checksum value box:

Version	MD5SUM
UpdateOS_2.0.5.zip	5b4eb325dbd17a3df456363e3d7c8a76

6. Select Verify
7. If the file fails (Reports "NOT Matched!") download the file again and retest until it passes.

# Updating From 2.0.X

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[Download UpdateViper4 2.0.5.5.Raven.zip](#)

**NOTE: This update package will not work with Case IH Viper 4s**

## Conversion Update Process

This update process will allow a system booting into ROS version 2.0.X version to be updated to later versions of 2.0.X.

## When to Use This Process

This update process should be used if the system is already running ROS 2.0.X.

## Equipment Needed

1. You will need a blank USB thumb drive (or a USB thumb drive that can have all files removed).
2. It is recommended to use a minimum USB Thumb Drive size of 4GB (SanDisk is a quality model).
3. You will need a copy of the **UpdateViper4\_2.0.5.5.Raven.zip** file.
4. This process may take up to 15 minutes to fully complete.

## Download and Installation Instructions

If the USB thumb drive has previously been used with the Viper 4, it will have a “Raven” folder already installed.

1. Insert USB thumb drive into computer.
2. Create a New folder on the Root Directory and name it Raven if it does not already exist.
3. Open the Raven folder and create a New Folder and name it Updates. File structure should appear as follows:



4. Download the appropriate update file: [UpdateViper4\\_2.0.5.5.Raven.zip](#)
5. Select the “Save” option to save the software to the home or office computer. It is recommended to select a commonly used download directory or a destination which will be easy to locate after the download completes.

*Note: It may be necessary to accept any security or warning prompts displayed by the browser or computer system to successfully save the software update to the computer.*

6. Insert your USB thumb drive with the File Structure created above into an available USB port on the computer.
7. Copy the update file from the download location into the Updates folder within the Raven directory on the root of the flash drive (see below example). Please allow a few minutes for this step.



8. Eject the USB thumb drive from your PC.
9. Plug the USB thumb drive into an operational Viper 4 unit that is already powered up.
10. Wait approximately 1.5 minutes to allow for the update to be detected.
11. **Ensure that all personal files have been removed from your USB thumb drive. After selecting the install all files will be removed!**
12. Select the Installation icon on the screen to begin the installation.
13. Confirm you would like to update by selecting the "Yes" button.

14. Remove USB drive.
15. Automated Installation Begins.
16. Approximate Timeline.
  - Please wait, your update is being installed: 1 minute.
  - Restart: less than 30 seconds.
  - Preparing for install: about a minute • Installing Updates: about a minute
  - ROS boot: 1-2 minutes.
17. Verify Update has completed.
  - Within Administrator, go to 'System Manager.
  - Under 'Software Update' verify 'Current Version' is 2.0.5.
  - Congratulations! Successful Conversion is Complete.

## Troubleshooting

1. Failure to Install
  - Attempt the installation with another USB Thumb drive
  - Verify the file downloaded correctly (see Verification of Download below)

## Verification of Download:

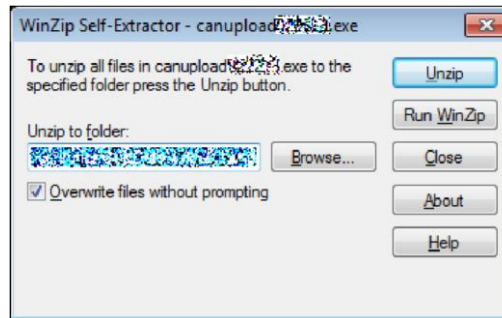
1. Download WinMD5Free
2. Extract the files to your desktop
3. Execute "WinMD5.exe"
4. Browse to the location and select the update file downloaded above.
5. Copy and paste the MD5sum from the table below into the Original file MD5 checksum value box:

Version	MD5SUM
UpdateViper4_2.0.5.5.Raven.zip	fbac9f3a420aff18492b55565c1a58c9

6. Select Verify
7. If the file fails (Reports "NOT Matched!") download the file again and retest until it passes.

# Downloading CANbus Firmware Updates

1. Download the CANbus software from [www.hagiehelp.com](http://www.hagiehelp.com)
2. Once download is complete, locate the file and open the “canupload” self extracting file.



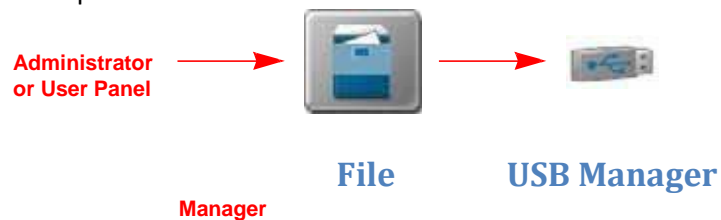
3. Select the “Browse...” button and use the browser to select the USB flash drive used with the Raven OS device.
4. Select the root directory of the USB flash drive and select the Unzip button to extract the CAN firmware to the drive. For example, “F” is the drive letter assigned in the following graphic:



4. Remove the USB flash drive from the home or office computer.

## Import CAN Node Updates

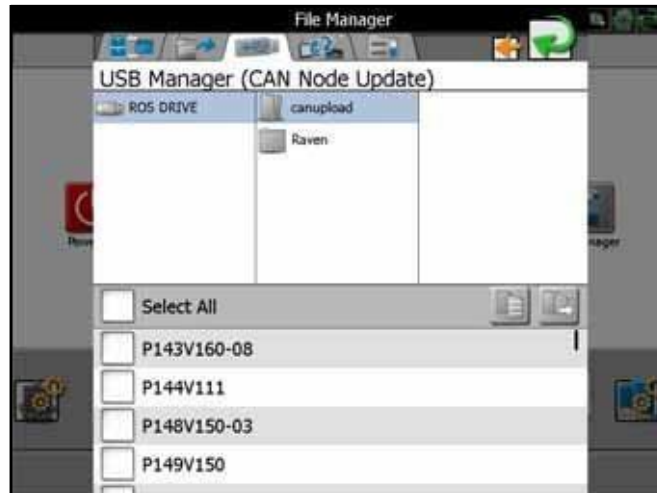
To import CAN node firmware updates from a USB flash drive:



1. Insert a USB flash drive used with the Raven OS device and containing the CAN node updates to be imported.
2. Touch the Administrator or User panel along the top of the main panel display to expand the panel.
3. Select the File Manager utility and touch the USB manager tab.
4. Touch the USB drop down and select the connected USB flash drive from which to import files.
5. Touch the file type drop down and select the “CAN Node Update” option.
6. Touch the Next button in the lower, right corner of the USB manager tab. The USB flash drive and folder structure will be displayed.
7. Use the displayed browser to locate and select the “canupload” folder downloaded from the Raven web site. Node update files currently stored on the USB flash drive will be displayed in the lower portion of the USB

manager tab.

**For Example.** “USB  
Name” > canupload



Drive

8. It is recommended to touch the Select All option at the top of the file list to import all node updates from the USB flash drive. Node updates may be removed or deleted after the CANbus hardware update process has been completed.

Alternatively, touch the box displayed to the left of the node update file name to import only a specific node update if the file name is known.

9. With at least one CAN node update file selected, select one of the following import actions:



- Copy - create a duplicate of the selected information on the Raven OS device, or

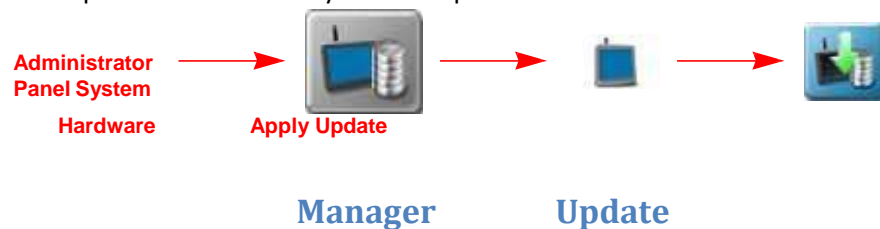
- Move - import the selected information to the Raven OS device and remove the information from the USB flash drive.

The Import Files prompt will be displayed.

10. Verify the list of files to be imported is correct. If the list requires further configuration, touch the Cancel button in the upper, right corner of the display to return to the USB Manager tab.
11. Touch the Import button to begin the file transfer process.

## Installing CANbus Firmware Updates

To apply a firmware update to a CANbus system component:



1. Touch the Administrator or User panel along the top of the main panel display to expand the panel.
2. Select the System Manager utility and touch the Hardware Update tab.
3. In the upper portion of the Hardware Update tab, select a specific node to be updated.

**Note:** *It is recommended to take note of the program number (PGM #) for the node selected. In case of problems with the node update, this number will be required to select the appropriate program number for recovering the node. If problems should arise please contact Hagie Customer Support at 800-247-4885.*

4. Next, use the Versions Available scrolling list to select the appropriate update to apply to the selected CANbus node.

5. Touch the Apply Update button to update the CANbus firmware on the selected node. The Raven OS device will install the selected firmware update. Repeat the process to update any other CANbus nodes as necessary or required.

If a problem is encountered during the firmware update process, please contact Hagie Customer Support at 800-247-4885.




## APPENDIX

# E

# Updating CAN Nodes via the Envizio Pro

Envizio Pro field computers with software version 2.2 or higher and CAN firmware version 10 or higher are capable of programming nodes on the CANbus directly through the field computer and connected cabling using a USB flash drive with the CAN Update program.

**Note:** Before trying to update a CAN node, make sure the node is communicating properly over the CANbus. If the node is not communicating properly, the field computer will be unable to update the node.

	<b>NOTICE</b>
Updating a CAN node erases the current settings in the node. To retain settings and calibration data, be sure to write down all settings stored by the node(s) being updated.	

Node updates are available by contacting the Raven customer support center at 1-800-243-5435.

**Note:** Create a folder labeled “canupload” on the root of a USB flash drive (i.e. “G:\canupload” and place the necessary .hex files within this folder.

### To Update CAN Nodes


**Important:** **DO NOT** remove power or unplug any cabling connections during the node update process. It is

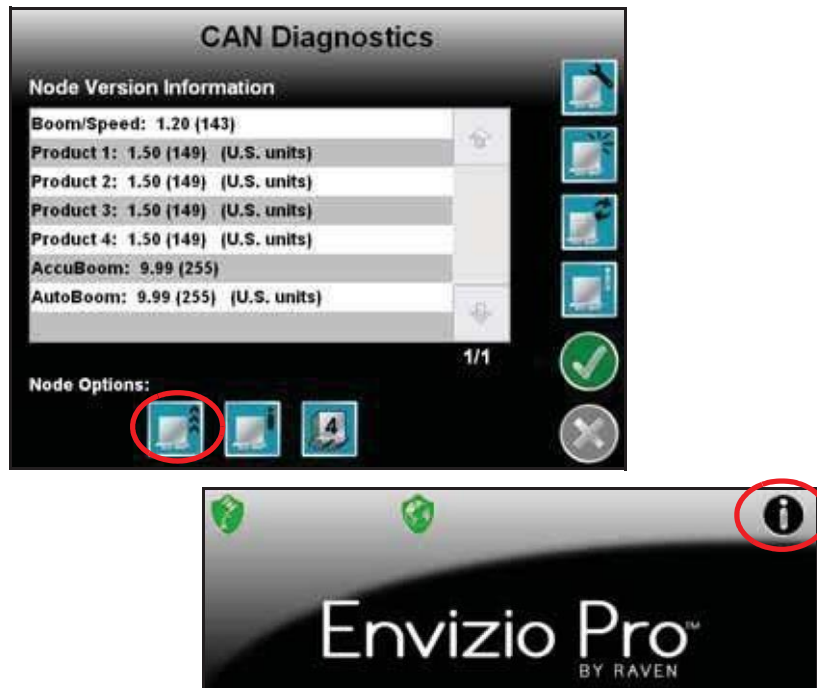
*recommended to start the machine and keep the engine running during the update process to maintain constant power over the CANbus system. If the update process fails to complete the update successfully, the node may become unresponsive. Unresponsive nodes will need to be returned to Raven for repairs.*


1. Start the field computer and touch the Information icon in the upper, right corner of the Home screen.

## Appendix E

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3. Insert the USB flash drive with the required .hex files into an available USB port on the field computer.
4. On the CAN Diagnostics screen, select a node to update and then select the  to begin the CAN Update Program.



2. Touch the  icon on the About Envizio Pro screen to display the CAN Diagnostics screen.

**Note:** The current CAN Firmware version is displayed on the CAN Diagnostics screen.

5. The Updates screen displays a list of available node updates. This screen also displays the firmware version to which each node will be updated if the update is applied.



6. Touch the **Accept**  icon to start the update.

**Note:** If the field computer cannot communicate with the selected node, the CAN Update Program will display an error.

*Troubleshoot the node and retry the update.*

7. The field computer begins communicating with the selected node to update. If communication is successful, the field computer will begin the update by erasing the node's memory.


**Note:** The field computer may take several minutes to prepare and apply the software update to the node. If errors are encountered during the process, re-apply the node update.

8. To update other nodes via the CANbus repeat step 6 through 7.



Viper Pro consoles with version 3.0 or higher software are capable of programming nodes on the CANbus directly through the Viper Pro console using a USB flash drive with the CAN Update program.

**Note:** *Before trying to update a CAN Node, make sure the node is communicating properly over the CANbus. If the node is not communicating properly, the Viper Pro will be unable to update the node.*

	<p style="text-align: right;"><b>NOTICE</b></p> <p>Updating a CAN Node erases the current settings in the node. To retain settings and calibration data, be sure to write down all settings stored by the node(s) being updated.</p>
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The CAN Update program and node updates are available by contacting the Raven customer support center at 1-800-2435435.

#### To Update CAN Nodes

1. Start the Viper Pro and access the Program Selection Menu screen.

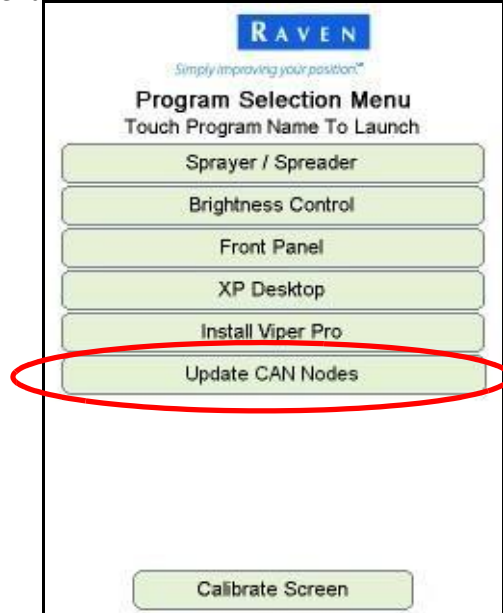
**Note:** *If the console is already powered up, touch the **Menu** button and select **Exit**. Select the **Exit to Menu** option on the Exit Viper screen.*

2. Insert the USB flash drive with the CAN Update program and required .hex files into an available USB port on the Viper Pro console.

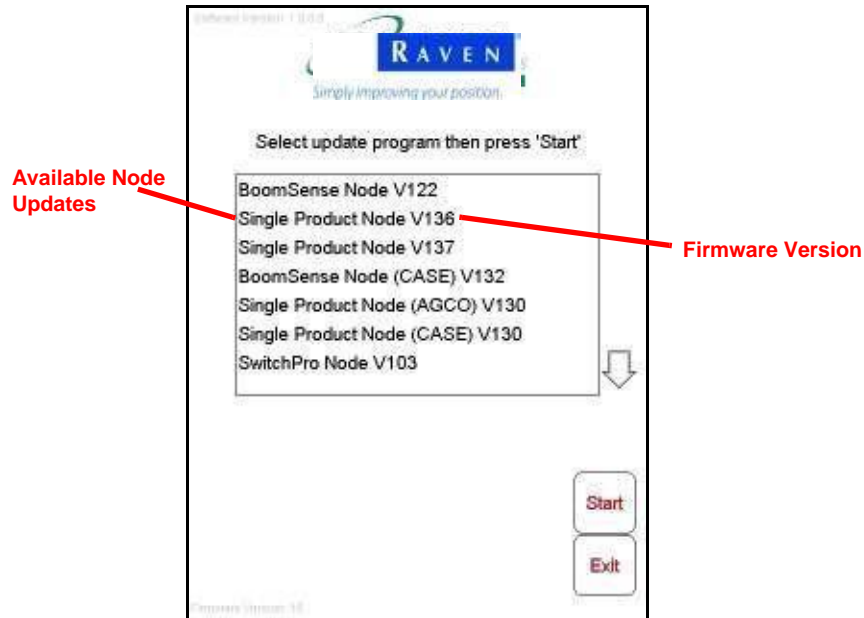
*Manual No. 016-0171-122*

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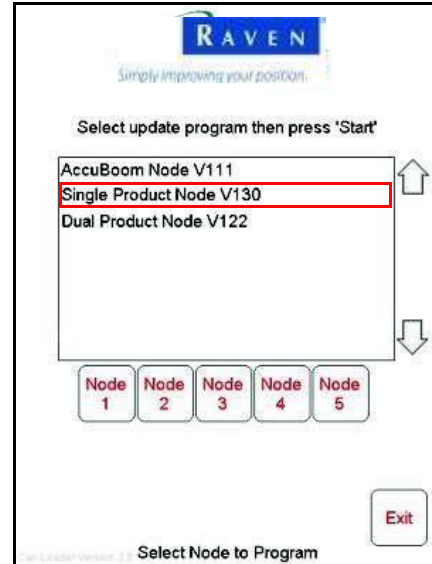
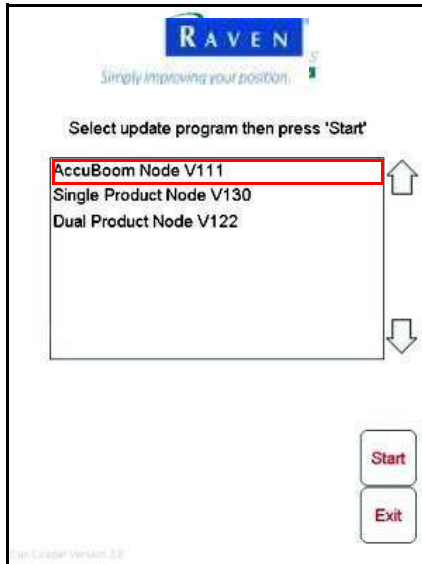
3. On the Program Selection Menu screen, select the option labeled **Update CAN Nodes** to begin the CAN Update Pro



4. The Update CAN Nodes screen displays a list of available node updates. This screen also displays the firmware version to which each node will be updated if the update is applied.



5. Touch the node update to apply.



If a Product Control Node is selected, the Node 1 through Node 5 buttons will be displayed.

6. To start the node update:
  - a. If a non-product node (i.e. Boom Sense/Speed, AccuBoom, AutoBoom Node) is selected, press the **Start** button in the lower right corner of the screen to begin the update.
  - b. For Single Product Control Nodes, select the **Node** button corresponding to the product node to update.
  - c. For Dual Product Control Nodes, select the **Node** button corresponding to the *first* product controlled by the dual product node to begin updating the node.

**Note:** If the Viper Pro cannot communicate with the selected node, the CAN Update Program will display an error.

*Troubleshoot the node and retry the update.*

7. The Viper Pro begins communicating with the selected update. If communication is successful, the Viper Pro will begin the update by erasing the node's memory.

**Note:** The Viper Pro may take several minutes to prepare and apply the software update to the node.

8. When the update is completed, Viper Pro will display a Programming Complete prompt. Touch the **OK** button to continue.

**Note:** If errors are encountered during the node update re-apply the node update.

9. To update other nodes via the Viper Pro CANbus repeat step 5 through 8.

# Viper Pro™ Software Update Details

Version: 3.10.1

Release Date: 03/31/14

[\[Print this Page\]](#)

DOWNLOAD UPDATE

If used with a CAN SmarTrax steering system, software version 5.3 or higher is required. It is not recommended for use with a CAN SmarTrax system with any software versions prior to 5.3.

This version no longer supports Rbin data files. Rbin files will not be created - also eliminating the need for the desktop Rbin viewer.

Any previous job files are not compatible with the 3.6 software release. Please save and remove all previous jobs prior to updating the software.

Activation code is required to work with AgX pre-populated jobs.

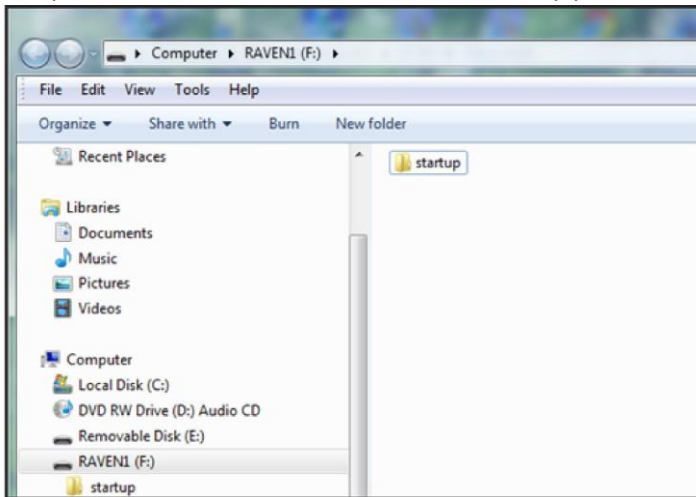
NOTE: If the Viper Pro had previously been registered to a Slingshot account please proceed with the following steps. After the software update is complete power-down the Viper Pro, and then re-power the Viper Pro system. From the main home screen press "Menu", then "Exit", then "Exit to Menu". Then make a selection to re-enter the Viper Pro application software.

NOTE: When updating field computer software, Raven recommends confirming that all CAN nodes on the system have the most current firmware available.

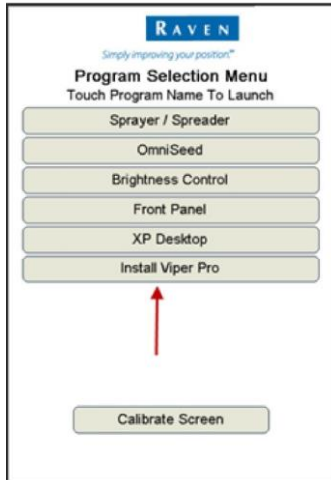
## Download and Installation Instructions

Note: This is a clean installation. This will wipe the Viper Pro clean and reinstall software. Please note that all settings, job files and activation keys will be lost.

1. Unzip/Extract to USB drive. If installed correctly you will have a folder named "startup".

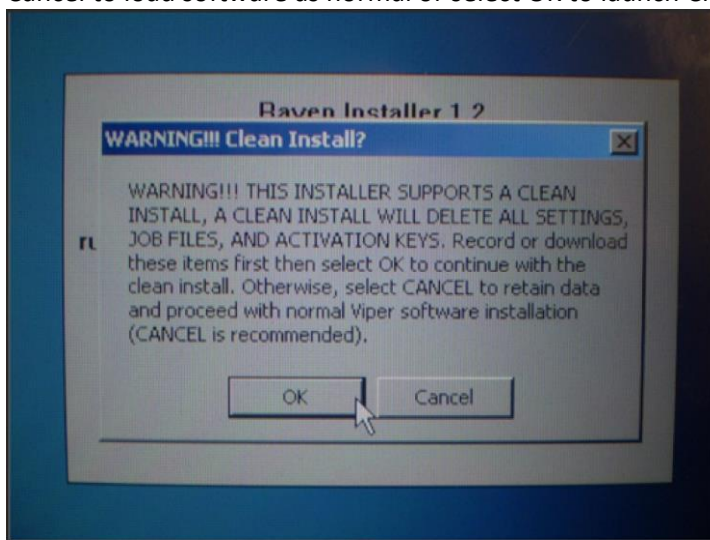


2. Insert USB into Viper Pro at the Program Selection List and select on Install Viper Pro.



<http://ravenhelp.com/Product-Support/Field-Computers/Viper-Pro/Software%20Updates/...12/18/2014>  
Raven Precision Help - Page 2 of 2

3. Once the software launches the first of two Clean Install warnings will come up. Select Cancel to load software as normal or select OK to launch Clean Install.





4. Then a Second Warning for Clean Install will come up. Select OK to launch Clean Install or Cancel to load as a normal software update.

