

# DIGITAL FLEET

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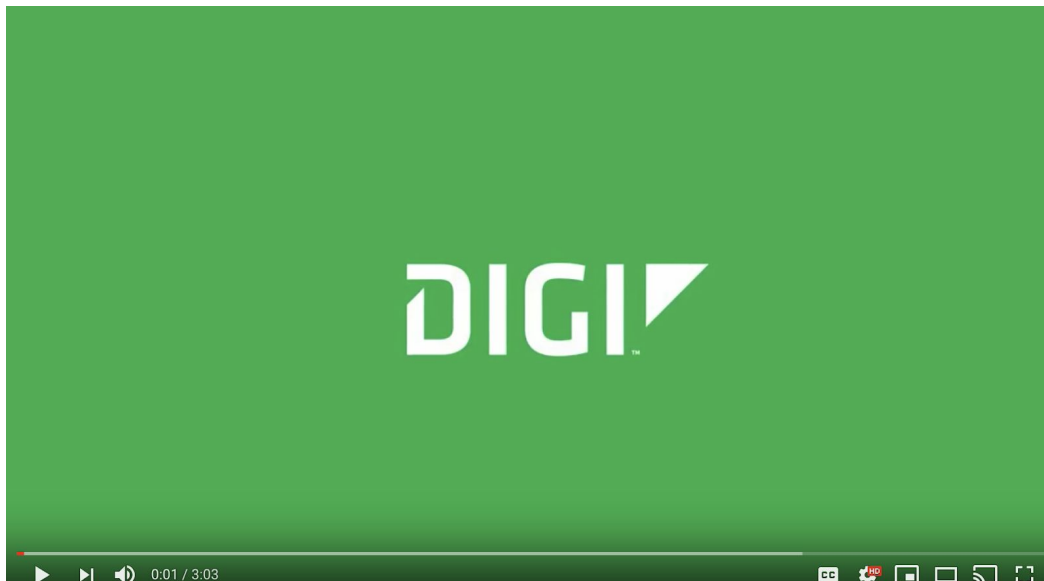
## What is the Digi Wireless Vehicle Bus Adapter (WVA)?

The [Digi Wireless Vehicle Bus Adapter \(WVA\)](#) aka Digi WVA is hardware from the company [Digi International](#). It is important to note that Digi International has no affiliation with Digital Fleet. The Digi WVA is best described by Digi - here is their description:

*Digi's Wireless Vehicle Bus Adapter (WVA) is a rugged, compact plug-in device that provides easy access to vehicle data via standard Wi-Fi and web services. The Digi WVA installs in minutes by connecting directly into the diagnostic port of the vehicle. Support for J1708 and J1939 standards allows the WVA to work with almost any fleet vehicle on the road today.*

- On-board J1939/J1708 message processing simplifies integration with applications
- Less than 5 minutes to install, uninstall or replace
- No cabling, no cluttering of the cab
- Supports emerging mobile devices: Android and iOS smartphones, tablets and OBCs
- Power management to minimize drain on vehicle battery

Source: <https://www.digi.com/products/xbee-rf-solutions/boxed-rf-modems-adapters/wireless-vehicle-bus-adapter#overview>



[play video](#)

Helpful links from the Digi site are [datasheet](#) and [User manuals & guides](#)

## Why would I use the Digi WVA with Digital Fleet?

With [version 6.2 of the Digital Fleet tablet application](#), we have added support for the Digi WVA.

The Digi WVA device is used to provide a wireless connection to the vehicle CAN bus, in order to transmit engine data to the Digital Fleet Android App, DigiTrack. This engine data is then available to you on the Digital Fleet platform (website, reports, API, etc.)

Other benefits: no data plan, easier install, no cables and the Digi is highly configurable to pull almost anything from the CAN bus.

## Where do I purchase a Digi WVA?

Digi International has no affiliation with Digital Fleet, as such, you are not purchasing the Digi WVA from Digital Fleet. Digi International has a network of distributors who sell the Digi WVA.

Any purchases, returns, warranty questions should be directed to the company that sold you the Digi WVA.

### Wireless Vehicle Bus Adapter (WVA)

J1708/J1939 to Wi-Fi Adapter



- On-board J1939/J1708 message processing simplifies integration with applications
- Less than 5 minutes to install, uninstall or replace
- No cabling, no cluttering of the cab
- Supports emerging mobile devices: Android and iOS smartphones, tablets and OBCs
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[HOW TO BUY >](#)



[HOW TO BUY](#)

## How do I configure a Digi WVA to work with Digital Fleet?

- What you will need: Truck, Digi WVA, laptop

### Configuration Steps

1. Connect the Digi device to the truck. See [https://www.digi.com/resources/documentation/digidocs/90001929/Default.htm#Task/Connect\\_wva\\_diagnostic\\_port.htm%3FTocPath%3DConnect%2520the%2520hardware%7C%204](https://www.digi.com/resources/documentation/digidocs/90001929/Default.htm#Task/Connect_wva_diagnostic_port.htm%3FTocPath%3DConnect%2520the%2520hardware%7C%204)
  - a. You can alternatively purchase a can bus simulator to configure devices while not physically at a truck.
2. Verify Digi green power light is on.
3. From another device, tablet/computer, connect to the wifi network identified on the card that came along with the Digi (EXAMPLE BELOW):

SSID: wva-00:40:9D:5C:49:98  
PASS: AZ09azAZ09azAZ



#### **(DO NOT LOSE THE CARD)**

The card should have the default **SSID** network name and the **Password** for this specific device. **It will be needed if the device is ever factory reset. Do not lose this card.**

4. Once connected open a browser and go to 192.168.100.1



Enter login credentials:

A screenshot of a login form. At the top, it says 'Sign in' followed by the URL 'https://192.168.100.1'. Below this are two input fields: 'Username' and 'Password'. At the bottom right, there are two buttons: 'Sign in' (highlighted in blue) and 'Cancel'.

- i. Username: admin
- ii. Password: admin (See step 6 to change this)

5. Click “Network Services” on the left side of the screen



a. Under “Secure WEB Server (HTTPS)

**Secure WEB Server (HTTPS)**  
*Web pages encryption to improve the security of web data transfers.*

Enable Secure Web Server (HTTPS)      TCP Port: 443

*Web services event channel for use by applications.*

Enable Web Services Events      TCP Port: 5000

**Device Discovery Service (ADDP)**  
*Discovery of Digi devices on a network using Digi Device Discovery application.*

Device Discovery Service (ADDP) Mode: Read-Write ▼    **Read-Only:** Allows dis  
**Read-Write:** (default)  
**Off:** Disables service

**Apply**

- i. Check the box for “Enable Web Services Events”
- ii. Set the TCP Port to 5000
- iii. Click Apply at the bottom

6. Change the default Admin password

- a. Click on “Admin Password” on the left side of the screen

The screenshot shows a web interface with a left sidebar and a main content area. In the sidebar, under the 'Configuration' section, the 'Admin Password' option is highlighted with a blue background. The main content area displays the 'Device Information' panel, which includes a 'Current System Status' section with the following details:

Model:	Wireless
Product ID:	0x80:
Firmware Version:	3.2.2:
Device ID:	0000:
Host Name:	wva
Date and Time:	Sat Ja
Up Time:	6 min
Wi-Fi MAC Address:	00:04

- b. Enter a new password and confirm, then click Apply

### Admin Password Management

Change Password

Change the password for the 'admin' user.

New Password:

Confirm Password:

## 7. Setup the Wi-fi Direct Device Name

- a. Click "Wireless Network" on the left side of the screen

Home

**Configuration**

- Wireless Network
- Wireless Access Point
- Python
- Network Services
- Time
- Device Cloud Connectivity
- Power Management
- CAN Bus
- Admin Password

### Wireless Network Configuration

Current IP Parameters

**Automatic address assignment**

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Default Gateway: 0.0.0.0

Interface Configuration

- b. Click the "Wifi Direct" button

### Wireless Network Configuration

Current IP Parameters

**Automatic address assignment via DHCP is enabled**

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Default Gateway: 0.0.0.0

Interface Configuration

Enable this network interface

Configure to connect to an Access Point or Hot Spot

Configure to connect using Wi-Fi Direct

Now configured for **Infrastructure** mode.

- c. Enter a Device Name for the digi device. (Ex. TESTTRUCK)



**Digi** **Device Configuration and Management**  
Wireless Vehicle Bus Adapter

**Wi-Fi Direct Configuration Wizard**

Device Name: TESTTRUCK

WPS Method: Push Button

Reconfigure IP addresses for Wi-Fi Direct

Click "Finish" to continue or "Cancel" to end the wizard and return to the Wireless Configuration page.

Finish Cancel

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www.digi.com

- d. WPS method: Push Button
  - e. Reconfigure IP addresses for Wi-Fi Direct should be checked
  - f. Click Finish
8. After it configures the settings a reboot is required
- a. Click Reboot



**Digi** **Device Configuration and Management**  
Wireless Vehicle Bus Adapter

**Wi-Fi Direct Configuration Wizard**

**Configuration save is complete. Reboot is required.**

The device has successfully saved the requested parameters. A reboot is required to apply the changes.

The reboot process will take approximately 1 minute to complete.

After the reboot completes, it may be necessary to reconnect to this device using Wi-Fi Direct.

Click the "Reboot" button to end the wizard and reboot the device.

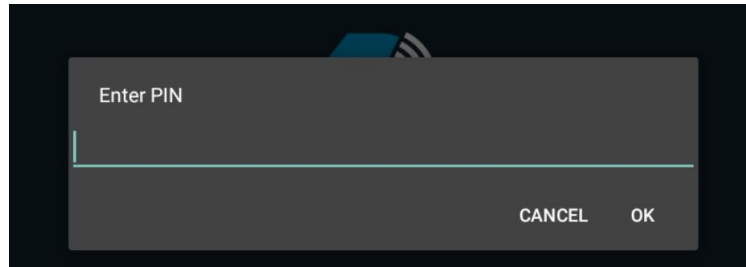
Reboot

- b. Once a reboot completes, the rest of the setup should be done from the tablet
9. Enable the WVA setting in Digi Track and connect to the device
- a. Click the Settings button from the main screen

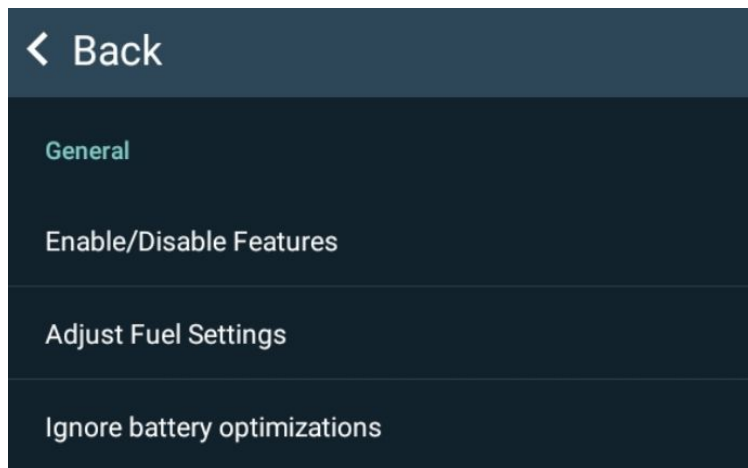




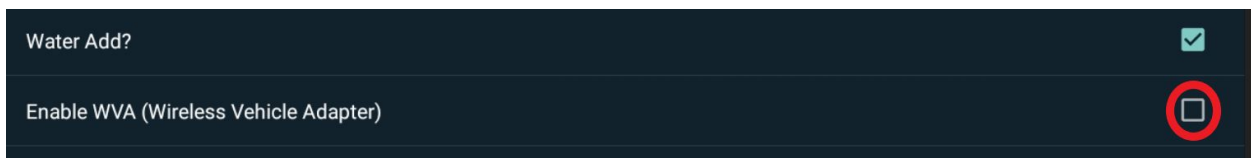
b. Enter the correct pin (Contact Digital Fleet if you need this)



c. Click "Enable/Disable Features"



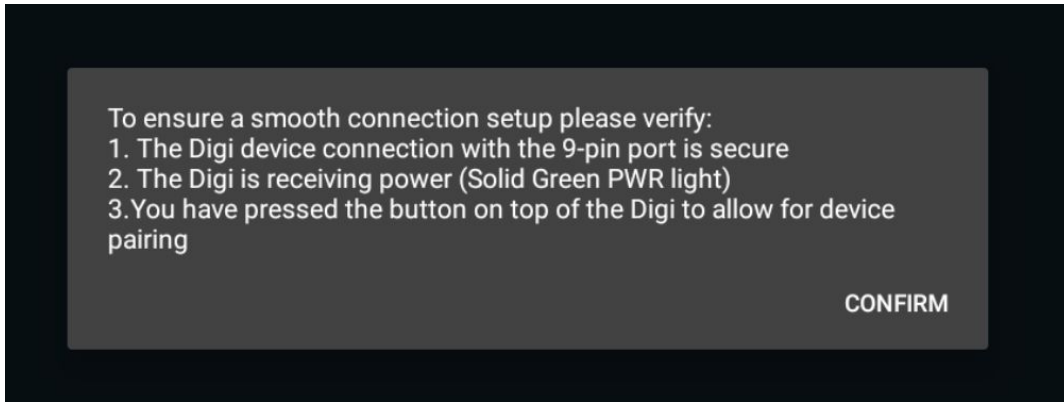
d. Check the box for "Enable WVA"



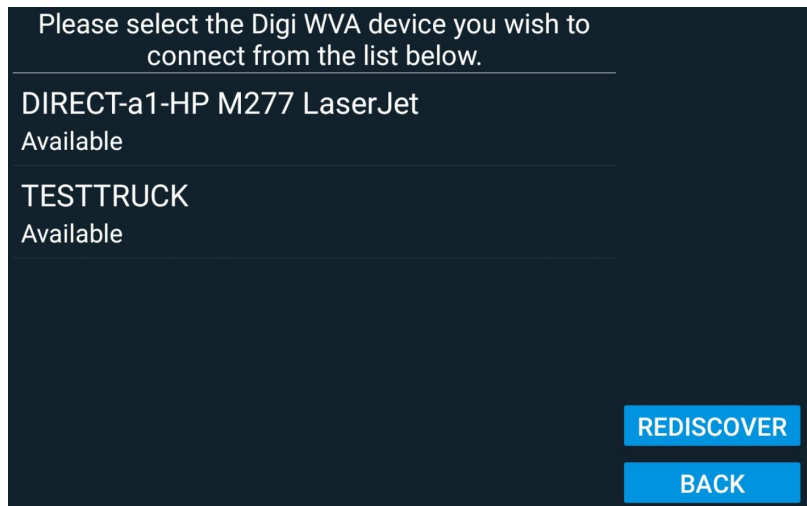
e. Press the button in the front of the digi device above the "WVA" letters one time to enable pairing



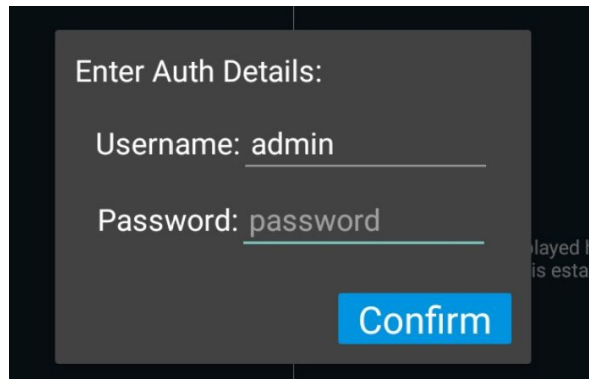
f. Click “Confirm”



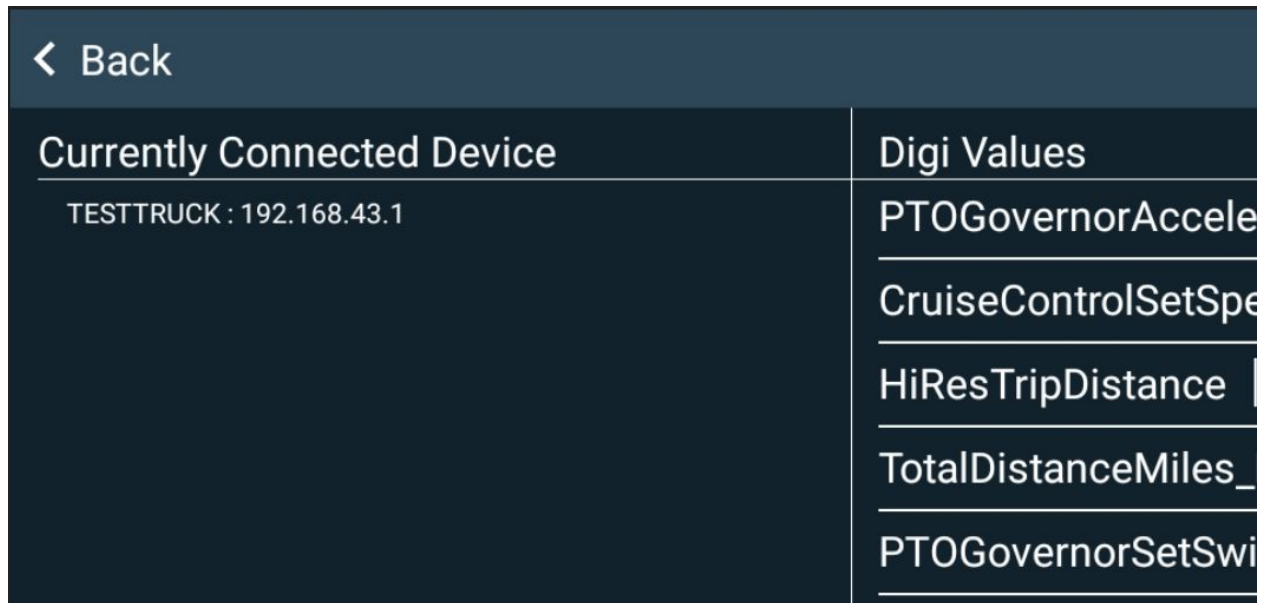
g. Select the WVA device that you created (Ex. TESTTRUCK)



h. When prompted enter the username “admin” and the new password that was created earlier on the web portal



- i. The device should now be showing as connected



The screenshot shows a mobile application interface with a dark blue header containing a back arrow and the text '< Back'. Below the header is a table with two columns: 'Currently Connected Device' and 'Digi Values'. The 'Currently Connected Device' column contains the text 'TESTTRUCK : 192.168.43.1'. The 'Digi Values' column lists several parameters: 'PTOGovernorAccele', 'CruiseControlSetSpe', 'HiResTripDistance', 'TotalDistanceMiles\_', and 'PTOGovernorSetSwi'. Each parameter is separated by a horizontal line.

Currently Connected Device	Digi Values
TESTTRUCK : 192.168.43.1	PTOGovernorAccele
	CruiseControlSetSpe
	HiResTripDistance
	TotalDistanceMiles_
	PTOGovernorSetSwi

## FAQ

- How much does the Digi WVA cost?
  - Digital Fleet does not manufacture or sell the Digi WVA device. You can [purchase](#) the device from Digi's website, where they typically retail \$210-\$250 depending on the vendor and their availability.
- How long does it take to configure/setup a Digi WVA?
  - Approximately 15-20 minutes to configure one unit.
- Where is the official Digi documentation?
  - [https://www.digi.com/resources/documentation/digidocs/90001929/Content/Task/T\\_config\\_wireless\\_wi-fi\\_direct.htm](https://www.digi.com/resources/documentation/digidocs/90001929/Content/Task/T_config_wireless_wi-fi_direct.htm)
- Does Digi offer customer support services?
  - Yes, <https://www.digi.com/support>

- Are there mounting brackets available for the Digi device?
  - The information for purchasing a mounting bracket can be found here: <https://www.digi.com/products/models/76000951>
- How to factory reset it
  - Hold the button above the “WVA” letters for 10 seconds



If you have any questions about the Digi and/or suggestions on how to make this documentation better, please reach out and let us know at [support@digitalfleet.com](mailto:support@digitalfleet.com).

Thank you.