Service Information

Diagnostic Device Hardware & Windows®

Subject: VAS 6154 Diagnostic Interface – Configuration Instructions **Date: May. 3, 2017**

1.0 – Introduction and Process Overviews

1.1 – General Information

This document describes the initial setup and configuration of a new VAS 6154 prior to startup on a diagnostic laptop or tablet device with ODIS Service diagnostic software.

1.2 – Web Interface – Overview

The initial setup configurations are performed with the VAS 6154 (and connected WLAN Module) plugged in to the base station, which is connected to the diagnostic device. A network address entered into the web browser on the diagnostic device generates a web interface in which the configurations are performed:



VAS 6154 in Base Station **Diagnostic Device** **Web Interface for Configurations**

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2.0 – Initial Setup and Configuration

2.1 – Preparation Prerequisites – MUST READ!

ATTENTION!
Ensure a successful setup by reviewing the checklist below and preparing accordingly!

☑	Prerequisites
	Person preparing VAS 6154 for service has knowledge of networking systems, and specific working knowledge of the dealership LAN / WLAN.
	ODIS Service has installed and the VAS6154 was selected as the default diagnostic device.
	VAS 6154 must be able to connect to the same Dealership WLAN as the diagnostic device.
	WLAN must support WPA2 encryption. (It is not possible to connect to other types or open connections.)
	If you replaced a Pass Thru Device (J2534) or VAS 5054A with this VAS 6154, then ODIS Service must be re-installed.

2.2 – Install Base Station Network Drivers

1. Connect single end of USB-Y cable to base station and double end to available USB ports on diagnostic device as illustrated:



2. **Wait** for Windows to locate and install the drivers:



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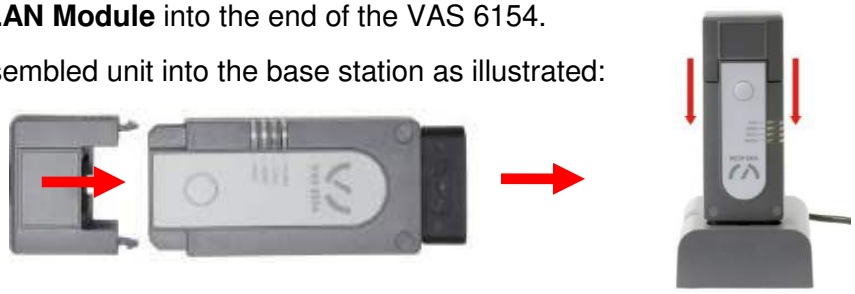
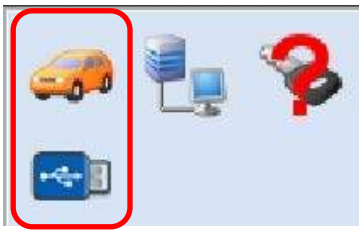
2.3 – Prepare WLAN Module

1. Plug the **WLAN Module** into the end of the VAS 6154.
2. Plug the assembled unit into the base station as illustrated:



3. Open ODIS
4. ODIS should see the VAS6154 while it's in the docking station. This will be evident by the Vehicle and USB icons showing as below.

   Example:



Note: If the VAS 6154 is new or there was a recent ODIS update, you may see a firmware update window in the bottom right hand corner of the screen. It should take 3-5 minutes to complete. The VAS 6154 will show disconnected in ODIS during some of this process, but will re-connect when complete. Warning: Do NOT unplug the VAS 6154 from the docking station while the firmware update is running.

Example of Firmware Update: 

Note: If ODIS does NOT recognize the VAS 6154 when it's docked, try the below steps before contacting Diagnostic Software Support.

- Click on Extras > Diagnostics Interface and re-select the VAS 6154
- Remove and Re-insert the VAS 6154 into the docking station
- Disconnect and Re-connect the VAS 6154 docking station USB cables from the laptops docking station

- If the VAS 6154 replaced a VAS 5054A or J2534, please ensure ODIS was re-installed and you selected the VAS 6154 as the default Diagnostic Interface.

2.4 – Configure Web Interface Language

A **one-time configuration** is necessary to set the language displayed by the interface.

1. With the VAS6154 still it's docking station open ODIS and click on Extras > Diagnostic Interface a
2. **Open Internet Explorer** and **manually enter** the following IP address in the browser's address bar:

   http://192.168.1.69 (optional: **http://vas6154-dock**):

A delay before the web interface language selection appears is normal… please be patient!

If a connection is not established, ensure all connections are secure and then Refresh (F5) the IP address (or enter the optional address).

2. Select the desired **interface language**, scroll down and apply the selection by clicking the **checkmark:**

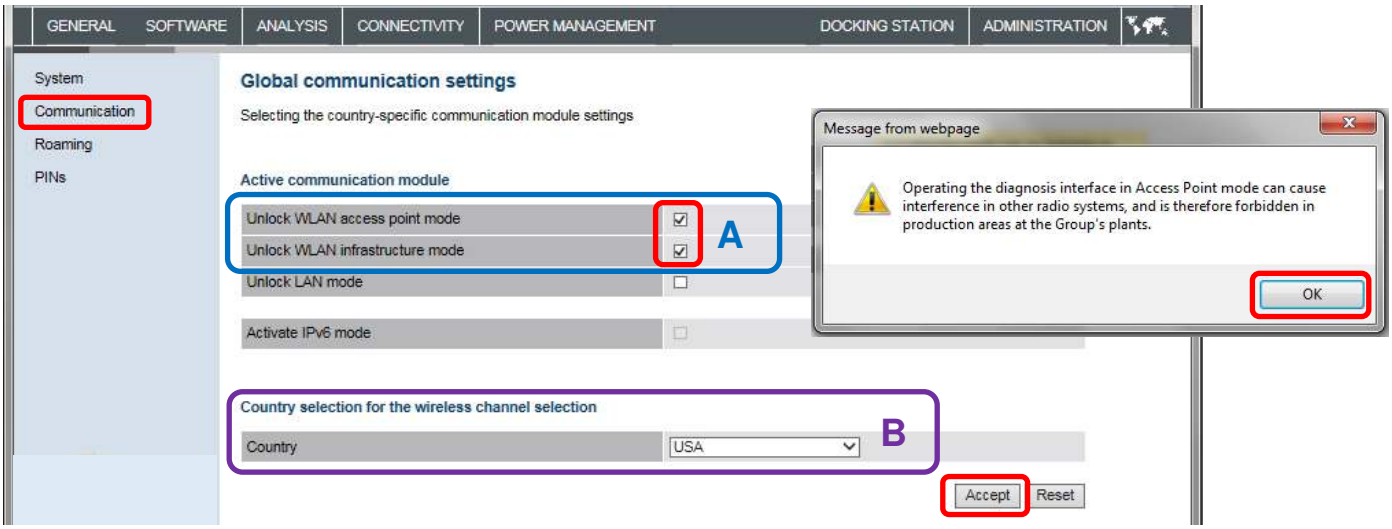


2.5 – Unlock Communication Modes

The communication modes must be unlocked, and the country in which the network operates set.

1. From the web interface: Select the **ADMINISTRATION** main category, and then select the **Communication** subcategory:

2. Check ☑ the **Unlock WLAN access point mode AND Unlock WLAN infrastructure mode** selections **-A-**: (Click **OK** when the Access Point interference message appears.):
3. Select the applicable **wireless channel selection - Country** from the dropdown **-B-:**
4. Select **Accept,** and then **wait a moment** while the parameters are written:



2.6 – Identify WLAN Module

If more than one VAS 6154 connects to the Dealership WLAN, each should be assigned **a different name and ID number.**

1. Choose and record a **unique name** and **two-digit ID number**.
2. Carefully peel-off the self-adhesive numbers chosen for the **ID Number** and apply them to the **add-on WLAN Module** as illustrated (number shown is example only):



3. Select the **GENERAL** main category, and then select the **Identification data** subcategory:
4. **If** the display contains the **WARNING:** text illustrated below, select **Train now:**

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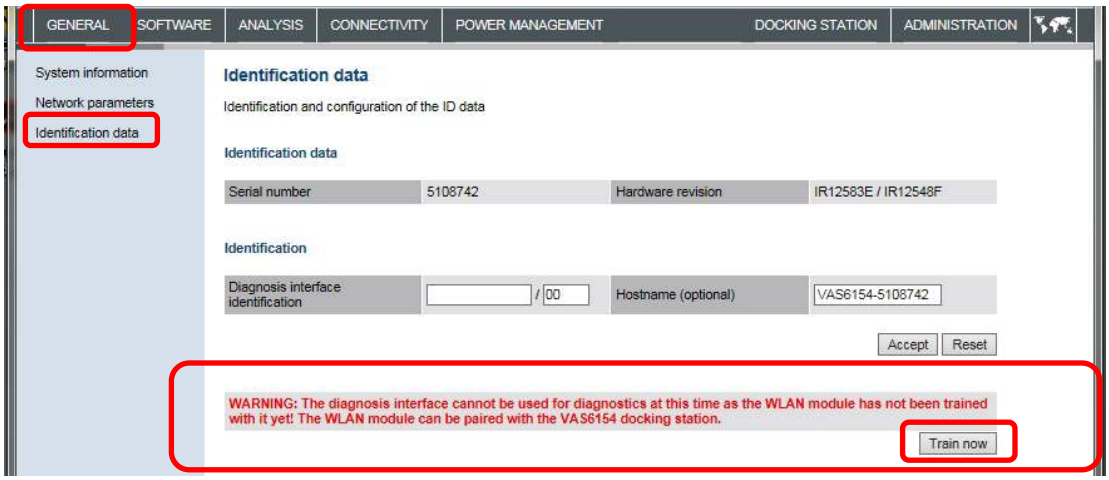
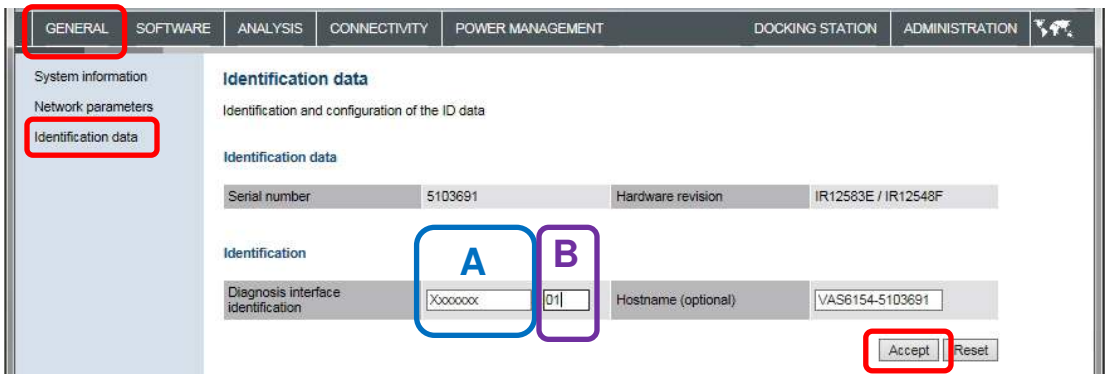


5. Enter the name chosen for the module in the **Diagnostic interface identification** entry field **-A-:**
6. Enter the **Module ID** chosen for the module in the **Diagnostic interface identification** entry field **-B-**
7. Select **Accept**, and then **wait a moment** while the parameters are written:



Note:
If the dealership WLAN operates in a **Remote Authentication Dial In User Service (RADIUS)** *environment, the name chosen for the VAS 6154 should be used as the hostname for the RADIUS certificate.*

2.7 – Configure Connection Parameters

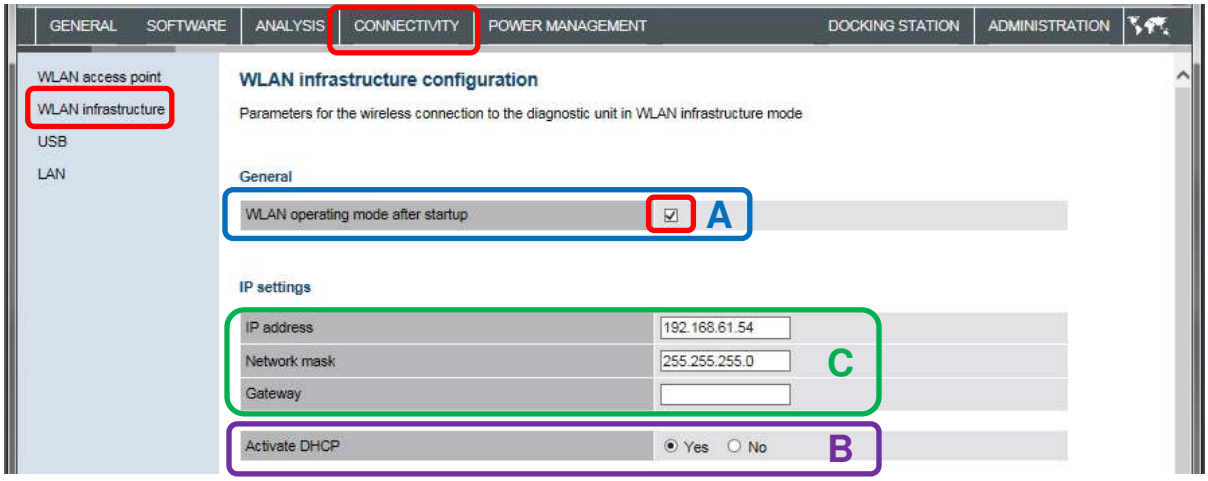
Prerequisites:

- ☐ *The following details of the dealership WLAN* ***must be known:***
  - ☐ *Dealership WLAN SSID (network name)*

- ☐ *Network IP set up for either* **DHCP OR Static IP**
- ☐ ***If Static IP:*** *Dealership specific information available for manual entry*
- ☐ *WPA2 encryption method and applicable key/password/certificate information as applicable*

2.7.1 – Configure WLAN Infrastructure Connection Parameters

1. Select the **CONNECTIVITY** main category, and then select the **WLAN Infrastructure** subcategory:
2. Check ☑ the **WLAN operating mode after startup** selection **-A-:**
   - ☐ **If** the dealership WLAN is set up for **DHCP:** Skip to **Step 6** **(This is most common)**
   - ☐ **If** the dealership WLAN is set up for **Static IP:** Continue with **Steps 3 & 4 below.**
3. **For Static IP Only**: Select **No** to deselect the DHCP default **-B-:**
4. **For Static IP Only:** Enter the **dealership-specific IP address /network mask etc**. information **-C-:**



5. If necessary, **scroll down the window** to reveal the selection - entry fields illustrated below:

Note:

- *The default encryption method is* **WPA2 (CCMP+TKIP/PSK),** and its configuration is described below.
- **If** *the network is set up for* **WPA2 (EAP-TLS/Radius),** activate this method in the web interface and enter the required information.

6. Enter the **Dealership WLAN SSID** (network name) **-A-:**
7. Enter the **WPA2 encryption key for the Dealership WLAN -B-:** (as applicable).
8. Select **Accept,** and then **wait a moment** while the parameters are written:

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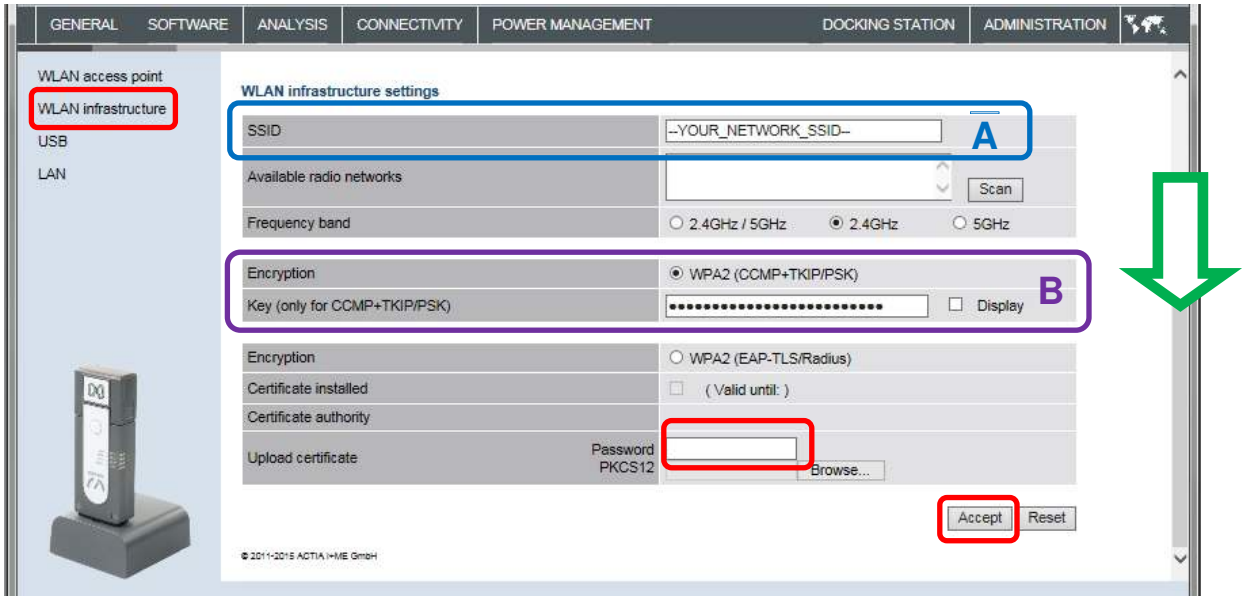
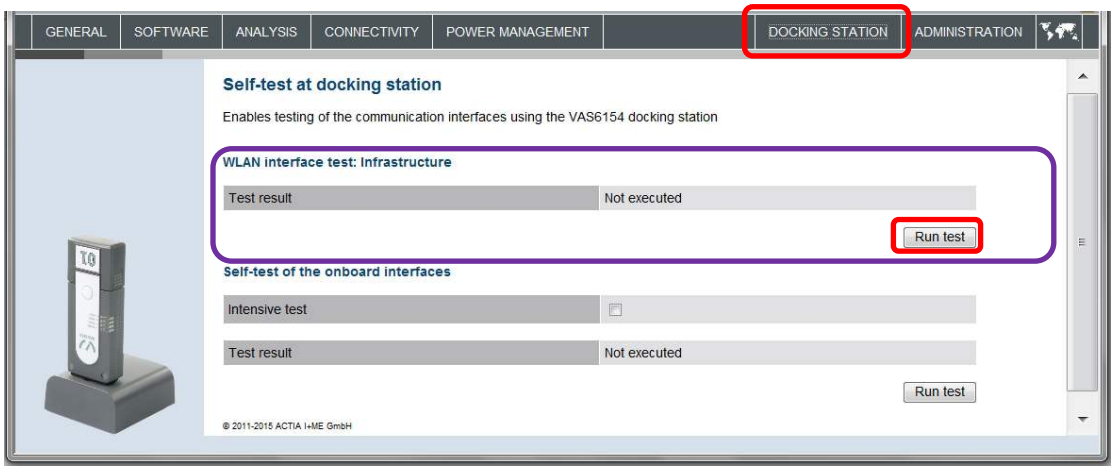


2.7.2 – Perform Module Self-Test

Confirm successful VAS 6154 WLAN Infrastructure setup and function on the configured dealership WLAN by performing a self-test as follows:

1. Select the **DOCKING STATION** main category: Retry selection if no connection is made initially.
2. From the **WLAN interface test: Infrastructure** subcategory, click **Run test:**



The approx. 90-second test checks the network broadcast functions of the VAS 6154 on the WLAN.

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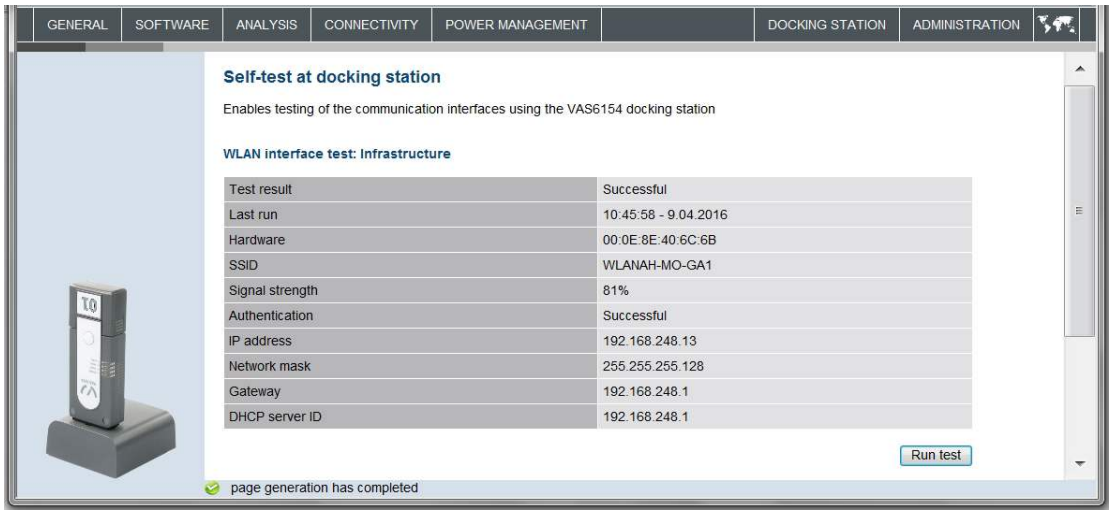

If the self-test is unsuccessful, verify the SSID and Password and try again or get your IT professional involved.

3. Close the web browser displaying the VAS 6154 web interface.
4. Disconnect the USB-Y cable from the docking station and diagnostic device.
5. **Remove the VAS 6154 from the docking station.**

***Note: If you plan on utilizing the VAS6154 via USB Cable when performing road test Diagnostics, section 2.7.3 can be skipped. Proceed to Page 12,* 3.0 – Setup USB Module**

2.7.3 – Configure WLAN Direct Connection Parameters

A **DHCP wireless access point** with **WPA2 encryption** and a **unique SSID name** are pre-set as a default.

Notes:

- **VAS 6154 and ODIS Service software cannot detect network IP address conflicts.** *Please review the default settings in all displayed categories carefully.*
- *Alternate settings should only be made to resolve network IP conflicts, fulfil dealership network requirements, or as required by dealership IT policies where applicable.*

After the pre-set default or alternate settings are **"Accepted"**, the wireless access point network **must be configured in Windows on the diagnostic device.**

1. Select the **WLAN access point** subcategory:

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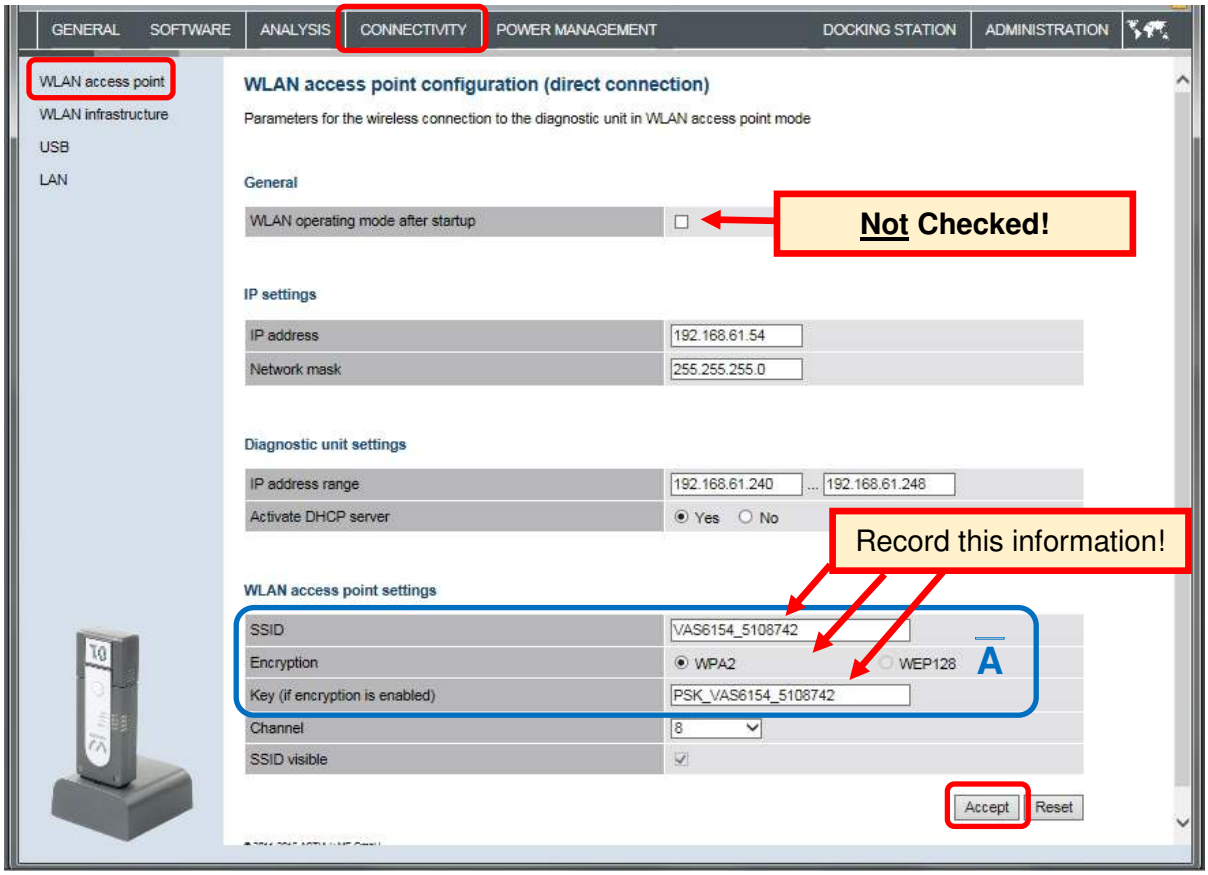
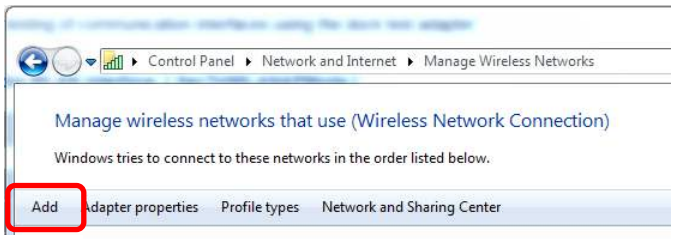
2. Ensure that the **WLAN operating mode after startup** box is **NOT CHECKED** as illustrated below.
3. **Review the categories and pre-set default settings** displayed to **determine if they need to be changed** as per the ***Note*** on Page 9. If alternate settings are necessary, **perform them now.**
4. **Record** the access point **SSID, Encryption** type and security **Key -A-** on a piece of paper for the steps that follow: *Note: The information displayed below is an example only! Each VAS 6154 is different!*
5. Select **Accept,** and then **wait a moment** while the parameters are written:



6. **Minimize** the browser displaying the VAS 6154 web interface.
7. From the Windows desktop, go to: **Start > Control Panel > Network and Sharing Center > Manage Wireless Networks,** and then **s**elect **Add:**



8. Select **Manually create a network profile:**

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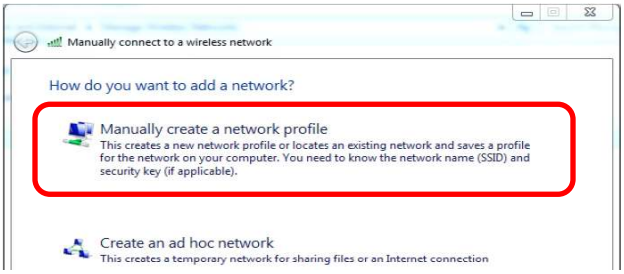
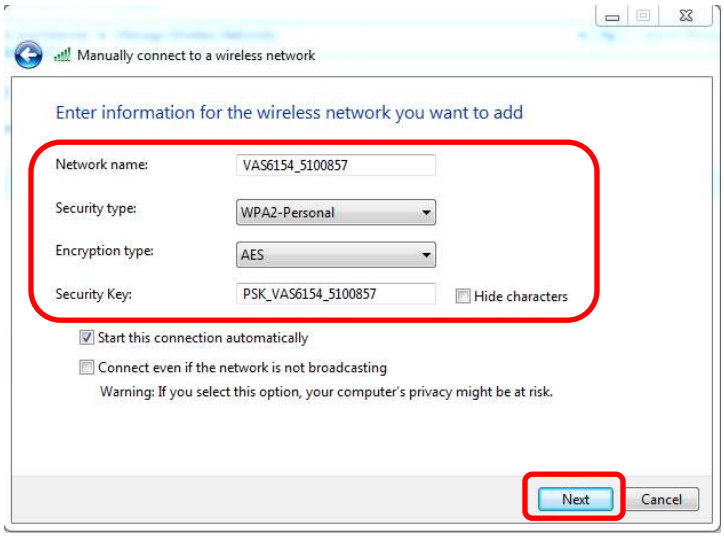
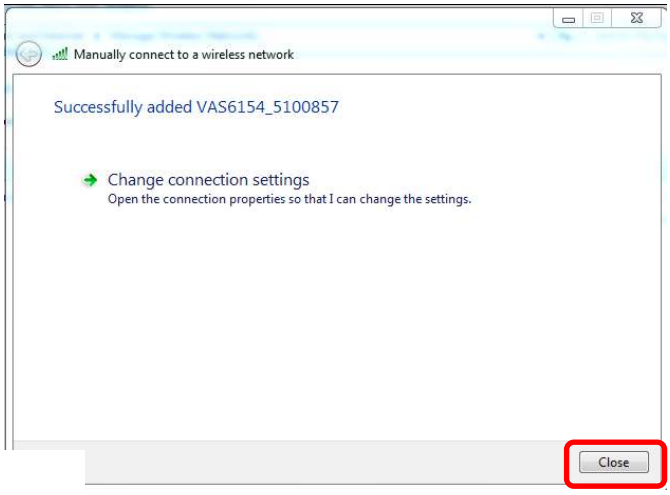


9. Enter the **WLAN access point SSID recorded in Step 4 - Page 10:**
10. From the **Security type** dropdown: Select **WPA2 – Personal**
11. From the **Encryption type** dropdown: Select **AES**
12. Enter the security **Key** recorded in **Step 4 - Page 10,** and then select **Next:**



13. Click **Close**, and then close the **Manage Wireless Networks** window:



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ATTENTION!

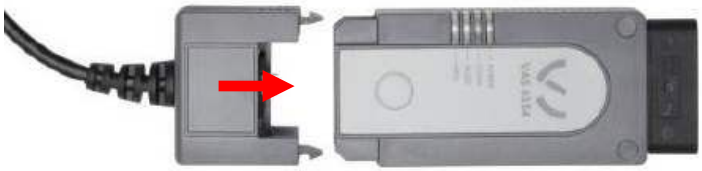
DO NOT connect or disconnect any of the add-on modules from the VAS 6154 when it is powered-up and transmitting (LEDs on). Module malfunctions will result!

Connections and disconnections of all add-on modules must ONLY take place when the VAS 6154 module is removed from the base station or vehicle DLC.

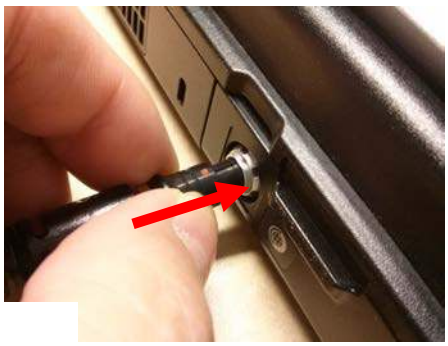
3.0 – Setup USB Module

3.1 – Install USB Drivers

1. Connect the **USB Module with cable** to the VAS 6154:



2. Plug the end of the USB cable into the round, **Rugged USB 2.0** port on the diagnostic device:



When the USB connection is established with the diagnostic device for the first time, a Windows USB driver installation routine automatically installs the necessary drivers. (Several Windows pop-ups appear in the window footer.)

3. Close the installation confirmation pop-up(s)
4. The VAS 6154 with WLAN and USB add-on modules can now be placed into service.