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Service Information

Diagnost	tic Device Hardware & Windows [®]	Number: AHW-17-17
Subject:	VAS 6154 Diagnostic Interface – Initial Setup Guide	Date: Dec. 8, 2017
Supersedes	VHW-17-09 due to *New Sections 2.6 & 4.0	
Table of	Contents	
Section		Page
1.0	Introduction and Process Overviews	<u>2</u>
1.1	General Information	<u>2</u>
1.2	Web Interface – Overview	<u>2</u>
2.0	Initial Setup and Configuration	<u>3</u>
2.1	Preparation Prerequisites	<u>3</u>
2.2	Install Base Station Network Drivers	<u>3</u>
2.3	Prepare WLAN Module	<u>4</u>
2.4	Configure Web Interface Language	<u>5</u>
2.5	Unlock Communication Modes	<u>6</u>
<mark>2.6</mark>	Enable Roaming	<u>6</u>
2.7	Identify WLAN Module	Z

 2.7
 Identify WLAN Module
 1

 2.8
 Configure Connection Parameters
 8

 3.0
 Setup USB Module
 16

 4.0
 Add Static IP Address & Host Name to Interface Software
 17

ATTENTION!

Personnel tasked with preparing VAS 6154 for workshop service <u>must have</u> knowledge of networking systems, and <u>specific working knowledge of the</u> <u>dealership LAN / WLAN</u>, as well as any security restriction measures in place that could affect its access and use.

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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

The configuration and information display layout on the VAS 6154 web interface is similar to ODIS Service.



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Page 2 of 19

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2.0 – Initial Setup and Configuration

2.1 – Preparation Prerequisites

ATTENTION!

Ensure a successful setup by using the checklist and preparing accordingly!

V	Prerequisites
	Person preparing VAS 6154 for service has knowledge of networking systems, and specific working knowledge of the dealership LAN / WLAN.
	Service Information document: VAS 6154 Diagnostic Interface – Introduction Guide read and understood.
	Dealership network performance recommended: 6 Mbps (single franchise) / 8 Mbps (dual franchise).
	Diagnostic device operating system is known: Either Windows® 7 or Windows 10
	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.)
	Broadcast services are not blocked by a network firewall or other security measures.
	The latest ODIS Service application version is installed on the diagnostic device.
	Diagnostic device plugged in to power adapter and booted to Windows desktop.
	Wireless switch on diagnostic device in ON position, ("Wireless LAN ON" & "802.11a Enabled").
	Diagnostic device connects to, and functions without restriction on dealership network.

2.2 – Install Base Station Network Drivers

1. Connect the **double end** of USB-Y cable to available USB ports on diagnostic device -1-, and then connect the **single end** to base station -2-:



- 2. <u>Wait</u> for Windows to locate and automatically install the drivers.
 - Windows 7: A confirmation window appears near the taskbar.
 - Windows 10: A very brief progress graphic appears in the taskbar.

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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
- 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. You may need to click on Extras > Diagnostic Interface and select the VAS 6154.



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.

VAS 6154 881:5130082

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 > Diagnostic 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, 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 web interface.

1. 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.

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



The General – System Information page appears first by default every subsequent time the web interface is accessed:



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Page 5 of 19



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 <u>ADMINISTRATION</u> main category, and then select the <u>Communication</u> subcategory:
- 2. Check I the Unlock WLAN access point mode <u>AND</u> 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:

GENERAL SOFTWARE	ANALYSIS CONNECTIVITY	POWER MANAGEMENT	DOCKING STATION	ADMINISTRATION	5.19. 2
System Communication	Global communication set	-			
Roaming			Message from webp	oage	
PINs	Active communication module				
	Unlock WLAN access point mode		interfere	ence in other radio syste	ce in Access Point mode can cause ms, and is therefore forbidden in
	Unlock WLAN infrastructure mode		product	tion areas at the Group's	plants.
	Unlock LAN mode		-		ОК
	Activate IPv6 mode				
	Country selection for the wireless	channel selection			
	Country	USA	<u> </u>		
				Accept Reset	

2.6 – Enable Roaming

Roaming is helpful if you have multiple Wireless Access Points located through-out your dealership which have the same SSID name. It allows the VAS6154 to automatically change to another WLAN access point if the connection quality is poor.

Note: You should verify with your IT specialist if your network is configured in this manner.

1. Select the **Administration** main category then the **Roaming** subcategory.

3. Leave 15 as the default Roaming threshold (SNR).

 For the List of channels (comma-separated). Leave this entry blank unless you consult with your IT specialist.

Note: Within a large infrastructure it can be advantageous to narrow down the WLAN channels. Please clarify with your IT specialist which channels are appropriate for your dealership.

(cont.)

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5. Click Accept.

2.7 – Identify WLAN Module

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

- 1. Choose and record a **unique name** and **two-digit ID number**.
- 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:

GENERAL SOFTWARE	ANALYSIS CONN	IECTIVITY	POWER MANAGEMENT	DOCKI	NG STATION	ADMINISTRATION	3 1 7.
GENERAL SOFTWARE System information Network parameters Identification data	Identification data Identification and configu Identification data Serial number Identification Diagnosis interface identification	510 States	ID data 08742	Hardware revision Hostname (optional) Distics at this time as the WLAN	IR12583E / IP	R12548F D8742 Accept Reset	<u>8</u>

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Page 7 of 19



- 6. Enter the Module ID chosen for the module in the Diagnostic interface identification entry field -B-
- Record the Hostname on a piece of paper, Diagnostic interface identification entry field -C-It will be required in later in <u>Section 4.0</u> below
- 8. Select Accept, and then wait a moment while the parameters are written:

GENERAL	SOFTWARE	ANALYSIS	CONNECTIVITY	POWER MANAGEMENT		DOCKING STATION	ADMINISTRATION	3 1 2
System information Network parameter Identification data	eters	Identificatio	l configuration of the	ID data				
		Serial number	51	03691	Hardware revision	IR12583E / I	R12548F	
		Identification Diagnosis interf identification	iace	A B	Hostname (optional)	C (VAS6154-5)	103691 Accept Reset	

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.

2.8 – Configure Connection Parameters

Prerequisites:

- The following details of the dealership WLAN <u>must be known:</u>
 - Dealership WLAN SSID (network name)
 - □ Network IP set up for either DHCP <u>OR</u> Static IP
 - □ If Static IP: Dealership specific address information available for manual entry
 - □ WPA2 encryption method and applicable key/password/certificate information as applicable

Notes:

- The WLAN Module's default IP setting is **DHCP**. The default IP address and network mask are pre-set in the applicable web interface configuration windows.
- The network must support WPA2 encryption for WLAN Infrastructure mode. Connection to other encryption types or open networks is not possible.

2.8.1 – Configure WLAN Infrastructure Connection Parameters

- 1. Select the **<u>CONNECTIVITY</u>** main category, and then select the **<u>WLAN Infrastructure</u>** subcategory:
- 2. Check I the WLAN operating mode after startup selection -A-:

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- □ If the dealership WLAN is set up for DHCP: Skip to Step 5 below.
- □ 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-:

GENERAL SOFTWAR	RE ANALYSIS	CONNECTIVITY	POWER MANAGEMENT	DOCKING STATION	ADMINISTRATION	3 1 2
WLAN access point WLAN infrastructure USB LAN		structure config	uration n to the diagnostic unit in WLAN infrastructure mode			Â
	WLAN operation	ng mode after startup				
	IP address Network mask Gateway		192.168.61.54 255.255.255.0	с		
	Activate DHCR	•	● Yes O No	В		

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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GENERAL SOFTWAR		CONNECTIVITY	POWER MANAGEMENT		DOCKING STATION	ADMINISTRATION	3 1 7
WLAN access point	WLAN infrastr	ucture settings					^
USB	SSID			YOUR_NETWORK_	SSID	Ā	
LAN	Available radio	networks			Ç	Scan	
	Frequency bar	id		O 2.4GHz / 5GHz	• 2.4GHz C	5GHz	
	Encryption			WPA2 (CCMP+TKI	P/PSK)		
	Key (only for C	CMP+TKIP/PSK)		•••••		Display B	
	Encryption			O WPA2 (EAP-TLS/R	(adius)		
N	Certificate inst	alled		(Valid until:)			
	Certificate auth	nority					
un sun	Upload certific	ate	Password PKCS12		Browse		
	© 2011-2015 ACTIA (+)	E Gentel			L.	Accept Reset	
							~

2.8.2 – Configure WLAN Direct Connection Parameters

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

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

WLAN Direct Connection configuration steps differ slightly between Windows 7 and Windows 10 devices. Please follow the section titles carefully.

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

(cont.)

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Page 10 of 19

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GENERAL SOFTWARE		POWER MANAGEMENT	DOCKING STATION	ADMINISTRATION	% #₹					
WLAN access point	WLAN access point configu	/LAN access point configuration (direct connection)								
WLAN infrastructure	Parameters for the wireless connection	n to the diagnostic unit in WLAN acces	ss point mode							
USB										
LAN	General									
	WLAN operating mode after startup	🗆 🗲	Not Che	ecked!						
					- 1					
	IP settings				- 1					
	IP address	192.168	.61.54							
	Network mask	255.255	.255.0							
	Diagnostic unit settings									
	IP address range	192.168	.61.240 192.168.61.248							
	Activate DHCP server	Yes			i a m I					
			Record t	his informat	lon!					
	WLAN access point settings									
	SSID	VAS615	4_5108742	_						
10	Encryption	• WPA	2 WEP128	A						
	Key (if encryption is enabled)	PSK_VA	AS6154_5108742							
	Channel	8	~							
	SSID visible									
				Accept	~					
	A DOM DOME ADDITION OF COMMUNICATION									

6. Minimize the browser displaying the VAS 6154 web interface.

2.8.2.1 – Continuation - Windows 7

1. Go to: Start > Control Panel > Network and Sharing Center > Manage Wireless Networks, and then select Add:



(cont.)

Page 11 of 19

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2. Select Manually create a network profile:



- 3. Enter the WLAN access point SSID (Network name) recorded in Step 4 Page 10
- 4. From the Security type dropdown: Select WPA2 Personal
- 5. From the Encryption type dropdown: Select AES
- 6. Enter the Security Key recorded in Step 4 Page 10, and then select Next /Close:



2.8.2.2 - Continuation - Windows 10

- 1. Go to: Control Panel > Network and Sharing Center.
- Select Set up a new connection or network
- 3. Select Manually connect to a wireless network, and then select Next:

(cont.)

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Choose a connection option



- 4. Enter the WLAN access point SSID (Network name) recorded in Step 4 Page 10:
- 5. From the Security type dropdown: Select WPA2 Personal
- 6. From the Encryption type dropdown: Select AES
- 7. Enter the security Key recorded in Step 4 Page 10, and then select Next ... Close:



2.8.3 – Configure USB Connection Parameters

A DHCP - USB network is pre-set as a default.

- 1. **Restore** the browser displaying the VAS 6154 web interface.
- 2. Select the USB subcategory:
- 3. Select Accept, and then wait a moment while the parameters are written:

(cont.)

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Page 13 of 19

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GENERAL SOFTWAR	E ANALYSIS CONNECTIVITY	POWER MANAGEMENT		DOCKING STATION	ADMINISTRATION	5 9 5
WLAN access point WLAN infrastructure	USB configuration Parameters for the wired connection	to the diagnostic unit via USB				
USB LAN	IP settings					
	IP address Network mask		192.168.13.69 255.255.255.0			
	Diagnostic unit settings					
	IP address range Activate DHCP server		192.168.13.240 ● Yes ○ No	192.168.13.248		
				Acc	cept Reset	

2.8.4 – Reboot Module (to save configurations)

All configuration parameters must be saved by rebooting the module as follows:

- 1. Select the **<u>ADMINISTRATION</u>** main category, and then select the **System** subcategory:
- 2. Scroll down and then check Reboot system:
- 3. Select **Accept**, and then **wait a moment** while the parameters are written:

GENERAL SOFTWARE	ANALYSIS	CONNECTIVITY	POWER MANAGEMENT		DOCKING STATION	ADMINISTRATION	\$1974 -
System	Other settings						^
Communication	Display function	n red LED		DoIP activation line V			
Roaming	Deactivate butt	on					
PINs	Deactivate onlin	ne help					
	Device settings	8					
	Load settings				Browse		
10	Save device se	ttings		Save settings			- 1
	Save global ne	twork configuration		Save settings			- 1
	Reset to factor	/ settings					
	Reboot system						- 1
					A	ccept Reset	~

(cont.)

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Page 14 of 19

3. Wait until the system reboots (the display briefly goes blank) and "parameters successfully written" is displayed in the page footer:

parameters successfully written

2.8.5 – 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:

GENERAL	SOFTWARE	ANALYSIS	CONNECTIVITY	POWER MANAGEMENT		DOCKING STATION	ADMINISTRATION	54%
		Enables testing	-	on interfaces using the VAS6	154 docking station			^
		WLAN interfac	ce test: Infrastructi	ure	Not executed			
TO		Solf tost of th	e onboard interfac				Run test	J
		Intensive test	e onboard internat	.= 5				
<u> </u>		Test result			Not executed			
		© 2011-2015 ACTIA I+	ME GmbH				Run test	-

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

GENERAL SOFTWARE	ANALYSIS CONNECTIVITY POWER MANAGEMEN	T DOCKING STATIC	
	Self-test at docking station Enables testing of the communication interfaces using the V.	NS6154 docking station	•
	Test result	Successful	=
	Last run Hardware	10:45:58 - 9.04.2016 00:0E:8E:40:6C:6B	=
	SSID Signal strength	WLANAH-MO-GA1 81%	
	Authentication IP address	Successful 192.168.248.13	
31 mm	Network mask Gateway	255.255.255.128 192.168.248.1	
	DHCP server ID	192.168.248.1	
	page generation has completed		Run test 👻

If the self-test is unsuccessful, follow the *Prerequisites* in subsections 2.1, repeat the WLAN Infrastructure setup instructions.

(cont.)

Page 15 of 19

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- 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. <u>Remove the VAS 6154 from the docking station.</u>
- 6. Depress the retainer clips and separate the WLAN Module from the VAS 6154:



ATTENTION!

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

Module malfunctions will result!

Connections and disconnections of add-on modules must <u>ONLY</u> take place when the 6154 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 -1- to the VAS 6154:



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



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Page 16 of 19

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.

- 3. Close the installation confirmation pop-up(s) as necessary.
- 4. Disconnect the USB cable from the USB 2.0 port on the diagnostic device.
- 5. Depress the retainer clips and separate the USB Module with cable from the VAS 6154 housing:



- 4.0 Setup USB Module Add Static IP Address & Host Name to Interface Software
- 1. Reference the VAS hostname you recorded in Step 8, Page 8 above. Example VAS6154-5103691.

Note:

A dash (-) must separate the prefix from the serial number! An underscore (_) should NEVER be used.

The number created above will be entered as a **network hostname** in the following procedure.

- 2. From the Windows desktop, go to: Windows Start > All Programs > XS_D_PDU_API_OS
- 3. Select: VAS6154-Static-Devices.ini



(cont.)

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An editable VAS6154 Device Management .ini "Notepad" document is displayed:



4. In the ----- begin of VAS6154-Static-Devices.ini ---- section, below the example text, type in the network hostname created in Step 8 - Page 8 in brackets as illustrated below:



Notes:

- The hostname must be typed-in in brackets [. . . .]
- A semicolon (;) must NOT precede the typed-in hostname.
- The hostname illustrated above is an example only! All VAS 6154 serial numbers are different!
- An underscore (_) should NEVER be used.
- In the ----- begin of VAS6154-Static-Devices.ini ---- section, below the example text, confirm that the network hostname created above appears in brackets.
- Type in IpAddress= followed by the dealership-specific network static IP address <u>below the</u> <u>hostname</u> as illustrated below:

(cont.)

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Page 18 of 19

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7. Save and close the .ini Notepad document.

Notes:

- A semicolon (;) must NOT precede the typed-in static IP address.
- The static IP address illustrated above **is an example only!** All dealership-specific static IP details are different!

When configured as described above, the interface software will automatically locate and connect to the VAS 6154 whose hostname (serial number) was entered in the .ini. This essentially "pairs" the VAS 6154 with the diagnostic device, and the two should be used together at all times.

Notes:

 Before using the VAS 6154 for vehicle diagnostics, a number of startup steps must be performed in conjunction with the ODIS Service application. For startup and use details, refer to Service Information – Diagnostic Device Hardware and Windows document title:

VAS 6154 Diagnostic Interface – Startup Guide

• For tips on proper handling of the VAS 6154 and its add-on modules, refer to **Service** Information – Diagnostic Device Hardware and Windows document title:

VAS 6154 Diagnostic Interface – In-Use Best Practices

 For tips on WLAN optimization, refer to Service Information – Diagnostic Device Hardware and Windows document title:

VAS 6154 Diagnostic Interface - WLAN Performance Optimizations

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