

SVCI 6154A

Operation manual

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1. Product Overview

SVCI 6154A is a VAG automobile diagnosis interface independently developed by Shenzhen STIC Technology Co., LTD. It is compatible with ODIS and ODIS Engineer software, and covers all models of VAG, Such as faW-Volkswagen, SAIC-Volkswagen, Audi, Skoda, Bentley, Seat, Bugatti, Lamborghini and Porsche etc... it also compatible with Pathfinder software for new Land Rover models. SVCI 6154A is fully compatible with **ODIS original driver** . The ODIS software supports 4.X.x or higher, and the ODIS engineer software supports V7.x or higher, and software updates are synchronized with the VAG server. SVCI 6154A is also support **CAN FD and DoIP** protocol, so it can do all VAG older and newest(from 1995MY up to now) models. In addition, SVCI 6154A can do all function that ODIS contains, for example online programming, doing immobilizer, set coding and so on.

SVCI 6154A has three connection modes, one is USB cable connection, second is AP(Built-in WIFI) mode connection and third is station(WLAN) mode connection. Please refer to part 4 of this manual for how to use the three connection modes.

2. SVCI 6154A appearance and details



Fig 2-1 SVCI 6154A Appearance

2.1 Description of SVCI 6154A LED light

LED light	LED Status	Shows	explain
POWER	Green/jobs	Open	Normal operation without failure
		Flash 1Hz	Error signal
		Close	No power supply
CONN	Blue/communication	Open	Connection established
		Flash 1Hz	Establish a connection
		Free flash	Data transmission
		Close	No power supply
MODE	Orange/WLAN running mode	Open	WLAN infrastructure mode
		Close	WLAN connection mode
INFO	Red DoIP active	Open	DoIP is activated and SVCI 6154 is connected with the vehicle
		Flash 1Hz	DoIP is activated and the SVCI 6154 connects to the vehicle with USB cable
		Close	DoIP inactive

2.2 SVCI 6154A PIN layout



Fig2-2 SVCI 6154A Interface PIN Layout

3. Product specifications

3.1 SVCI 6154A Hardware

Length * width * height	110mm*48mm*28mm
Weight	85.5g
Environment	-20° ~ 40°
Power supply mode	OBD16 PIN Power Supply
Voltage requirements	8VDC ~ 24VDC
Rated power	1Watts @ 12VDC
Wireless WiFi transmission distance	<20 meter

3.2 Packing Instructions

Name	Describe
SVCI 6154A Interface	One set
USB cable	One
Operation manual	one
Package length * width * height	154mm*154mm*51mm
Packing weight	314g

3.3 Computer configuration and system requirements

CFG requirements Hardware	Minimum configuration	Recommended configuration
CPU	Intel I3 2.4GHz	Intel i5 2.4GHz
Memory (RAM)	2GB	4GB
Hard disk	240GB	500GB
OS	Win7(64Bit)	Win10 pro(64Bit)
USB port	one	Two or above
Web browser	IE8 or above	IE11
VAS6154-Driver	v1.0.9.54	The latest
ODIS version	v4. x. x	The latest
ODIS Engineer version	v7.1.x	The latest

4. Connection configuration

When using SVCI 6154A for the first time, connection configuration is required. SVCI 6154A has three connection modes. The first is to connect directly to the computer through USB cable. The second connection mode is AP connection mode (SVCI 6154A is connected with built-in wireless WiFi module, similar to Bluetooth connection). The third connection mode is the station mode connection (WLAN connection), The computer and SVCI 6154A need to be in the same WLAN network environment. For connection in AP mode or Station mode, you need to configure the SSID and password on the configuration page, The following is a detailed description of how to configure AP/Station connection. The working diagrams of the three connection modes are shown in the figure below.

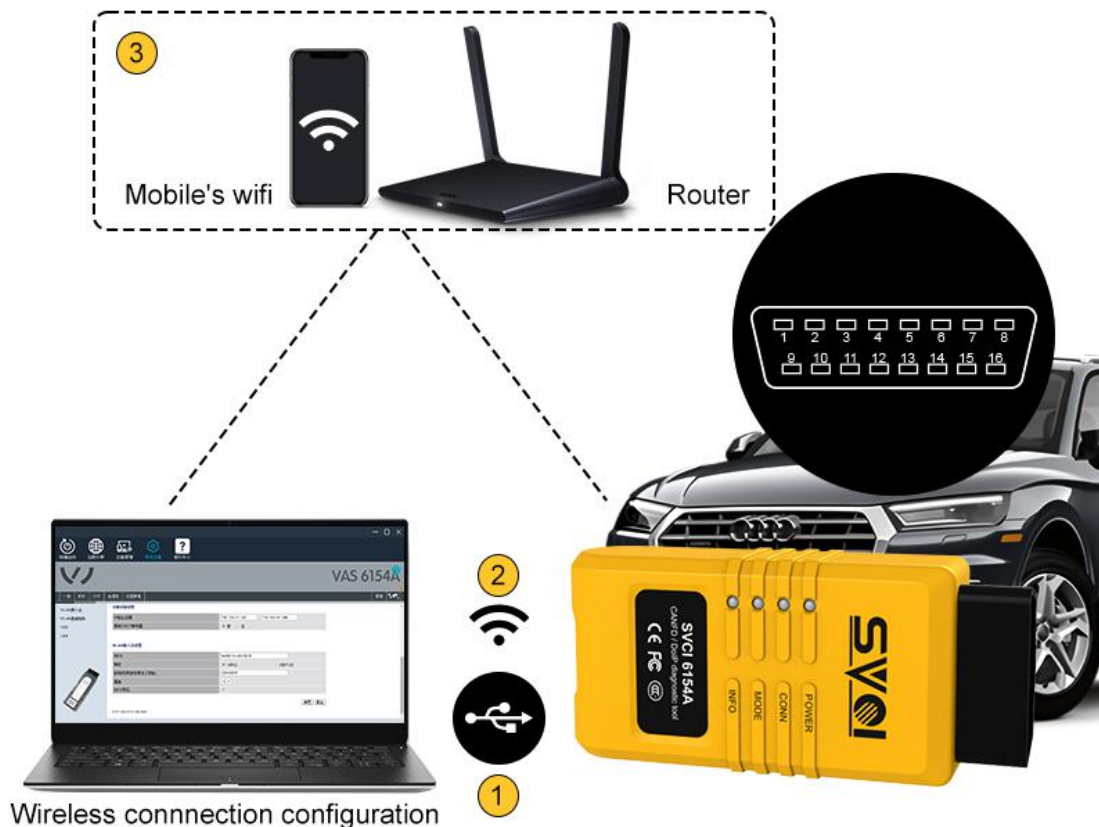


Fig4-1 Three connection modes working shows

- ①Connect to computer and vehicle with USB cable
- ②Connect to computer and vehicle with built-in WIFI of SVCI 6154A
- ③Connect to computer and vehicle with WLAN network(Station mode)

Note: USB cable connection, AP mode connection and station mode connection can only select one of the three connection modes when establishing communication with ODIS software or ODIS engineer software.

4.1 Connection with USB cable

First, install ODIS software and SVCI 6154A device manager software in the computer, and SVCI 6154A connect to computer and vehicle with USB cable ,Running SVCI 6154A device manager software and select the “device management” menu to read the device information to complete the synchronization operation between the SVCI 6154A interface and ODIS original driver. As shown in Figure 4-1 below.

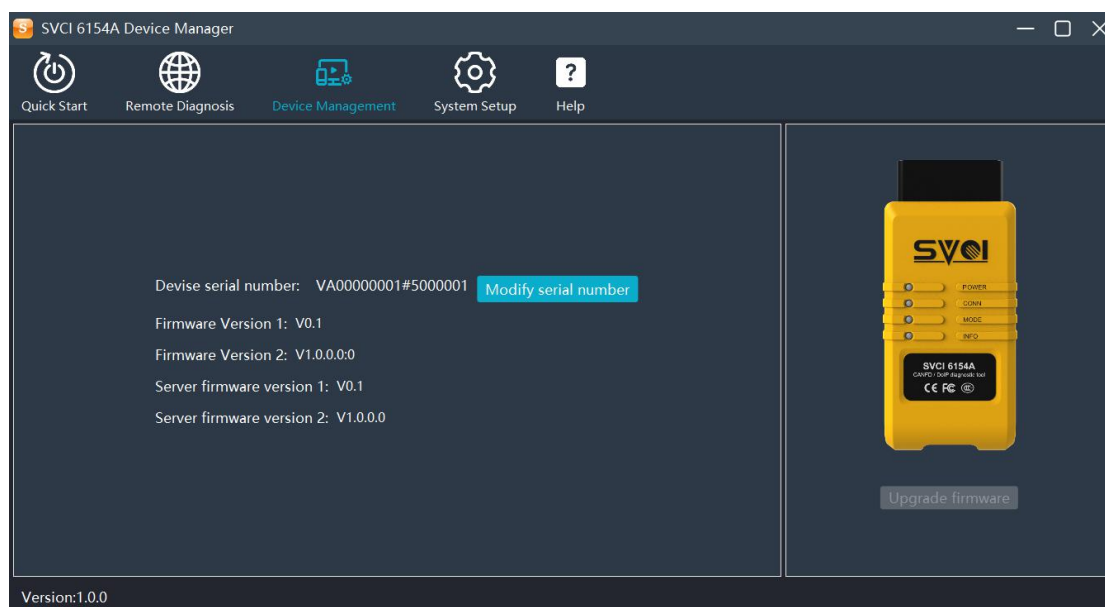


Fig4-1

4.2 AP mode connection - built-in WiFi direct connection

The built-in WiFi of SVCI 6154A is directly connected to the computer, similar to Bluetooth connection. The default SSID and password of the built-in WiFi of SVCI 6154A are as follows.

Default built-in WiFi name (SSID): SVCI6154-device SN number

Default WiFi password: 12345678

If you need to change the SVCI 6154A built-in WiFi configuration, please refer to the operation in 4.1, then select “system settings” in the main menu of SVCI 6154A device manager software, and then click “wireless connection configuration”, as shown in the following figure4-2.

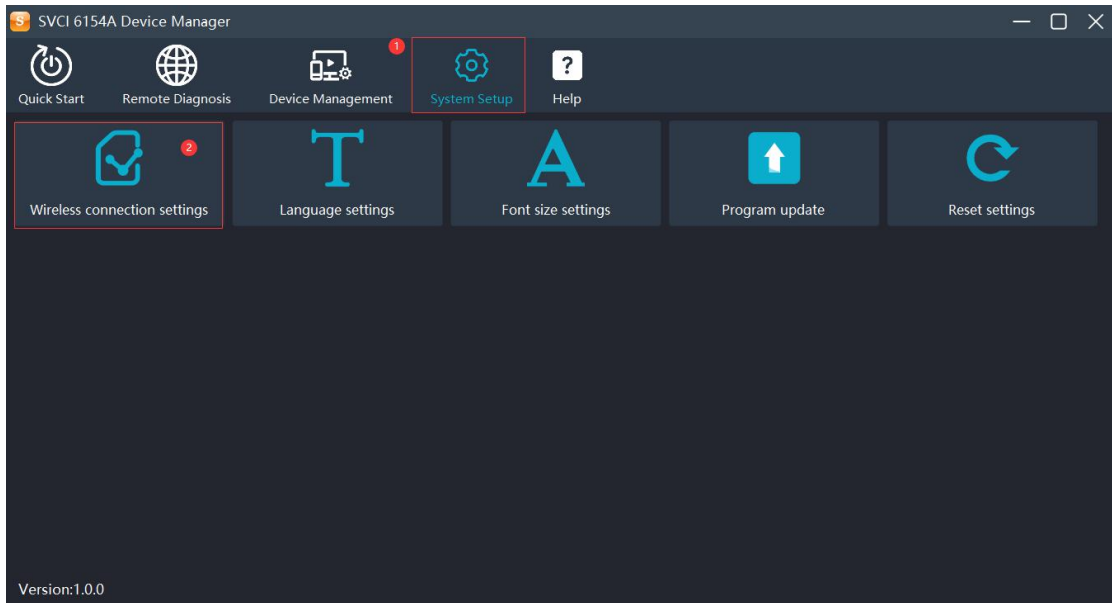


Fig4-2 Wireless configuration menu entry

4.2.1 After entering the wireless connection configuration page for the first time, you will be prompted to select the language you need. After entering the second time, the language you selected for the first time will be defaulted, as shown in the following figure:

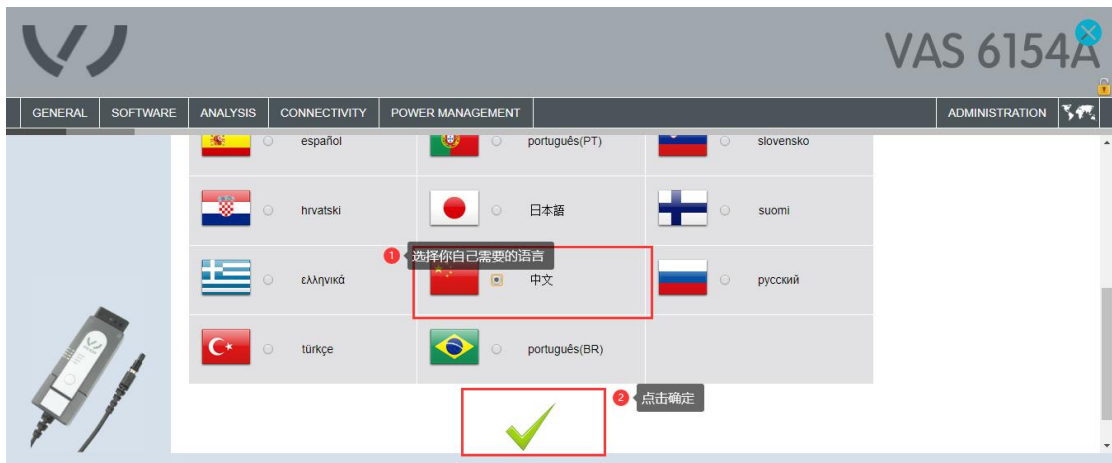


Fig4-5 Wireless configuration page initialization language selection

4.2.2 After selecting the language or entering the wireless configuration page again, we will directly jump to the home page of the configuration page. At this time, we need to select the "CONNECTIVITY" menu in the menu bar of the configuration page, and then select the "WLAN Access Point" menu in the menu bar on the left, and check the "WLAN operating mode after startup", as shown in the following figure:

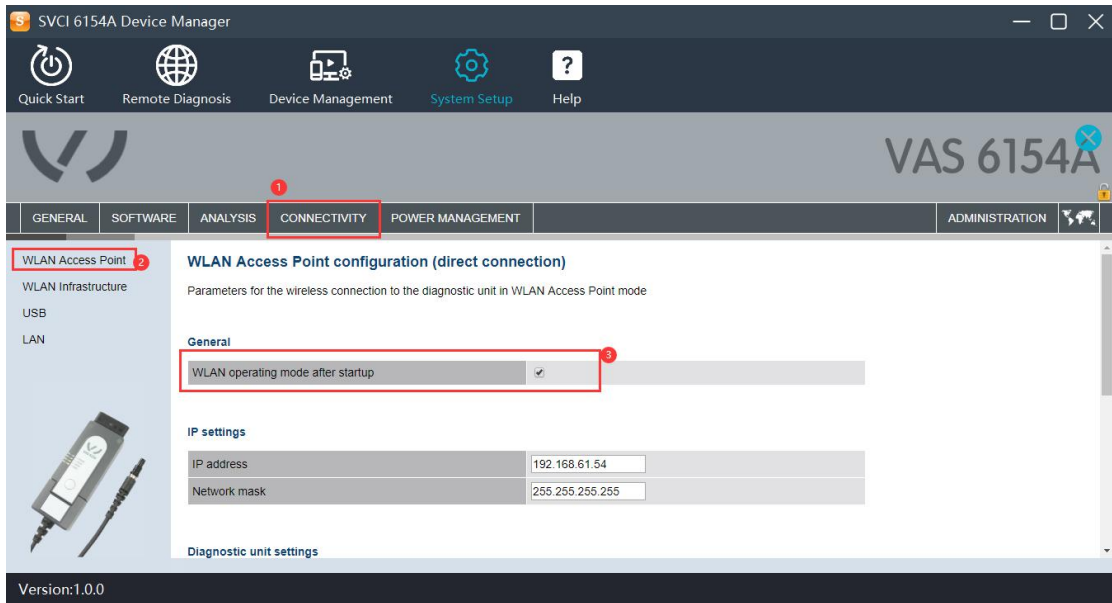


Fig4-6 startup built-in WiFi wireless connection

4.2.3 Pull the scroll bar to the bottom, configure SVCI 6154A wireless WiFi name (SSID) and WiFi password, and click "accept" after configuration, as shown in the figure below

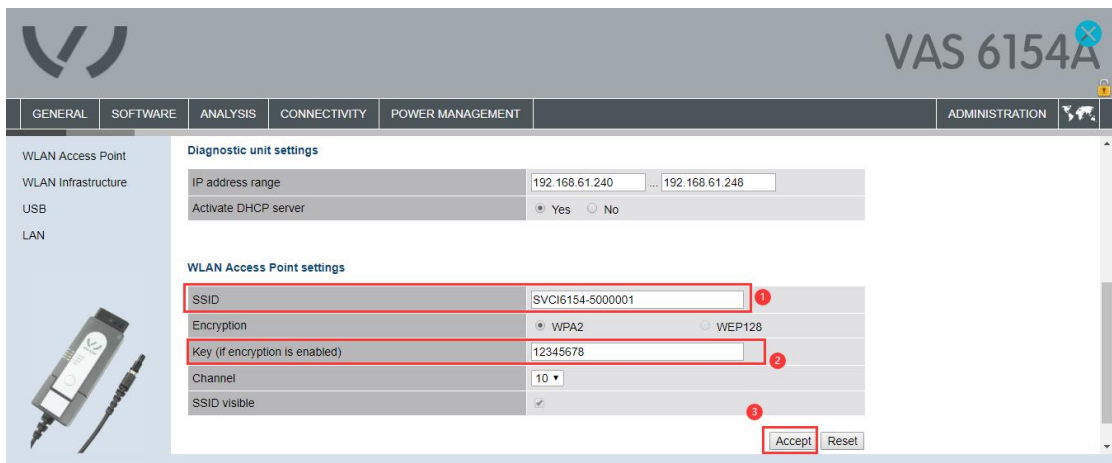


Fig4-7 Configure built-in WiFi name (SSID) and password(Key)

4.2.4 At this time, the built-in WiFi connection configuration of SVCI 6154A (AP mode connection) has been completed. Unplug the USB cable and disconnect the current SVCI 6154A device from the computer. Connect the SVCI 6154A device to the vehicle through the OBD interface, then search the default or configured SSID (WiFi name) of SVCI 6154A in the wireless network in the lower right corner of the current computer and enter the password (WiFi password). After the connection is successful, the device will emit a long "Di...Di..." sound and the CONN light will change from flashing blue light to long bright blue light.



Fig4-8 connection with the vehicle

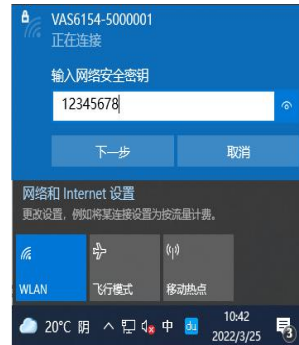


Fig4-9 WiFi of computer connection equipment

4.3 Station mode connection - WLAN connection

The station connection mode is WLAN connection, which connects the SVCI 6154A equipment in the one WLAN with the computer system. The intermediate connection medium is the router or mobile' wifi in the current WLAN. First, configure the SVCI 6154A device to the current WLAN on the wireless configuration page, and then connect the current computer to the current LAN (via WiFi or LAN port).

4.3.1 To configure WLAN connection, you need to perform the operation in 4.1, and then enter the wireless connection configuration page. Please refer to 4.2.1 operation. Select "connectivity" in the menu bar of the wireless connection configuration page, then select "WLAN infrastructure" in the menu bar on the left, and check "WLAN operation mode after startup" on the current page, as shown in the following figure.

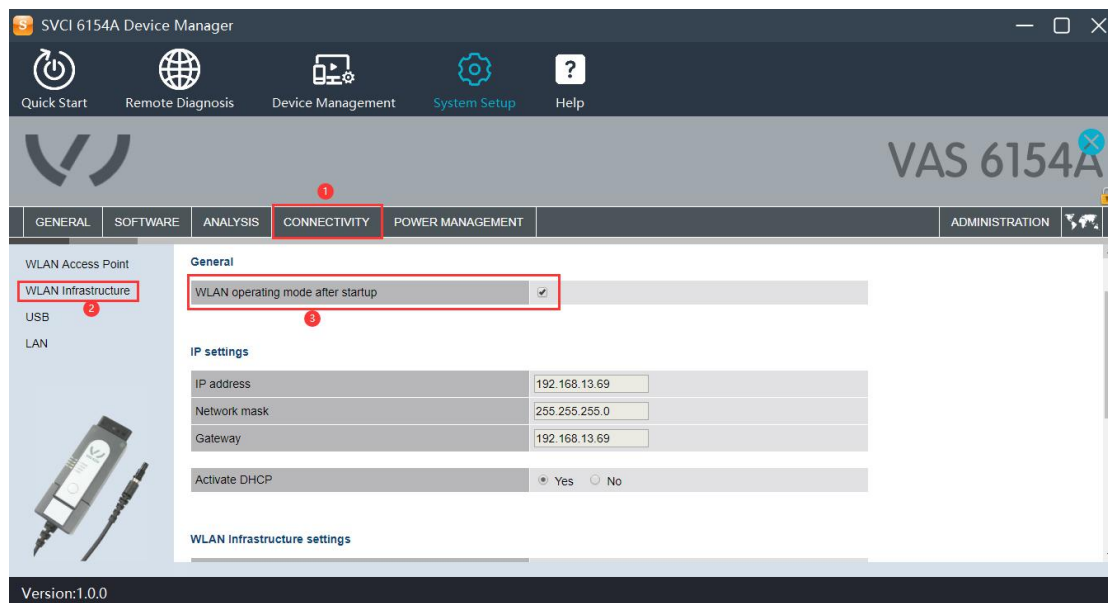


Fig4-10 Enable WLAN

4.3.2 After 4.3.1, Pull down the scroll bar on the right to find the column of SSID and key, enter the WiFi name of the current LAN (router or mobile' WIF) in the column of SSID, and enter the password of the current LAN (router or mobile' WIF) in the column of key, as shown in the figure below:

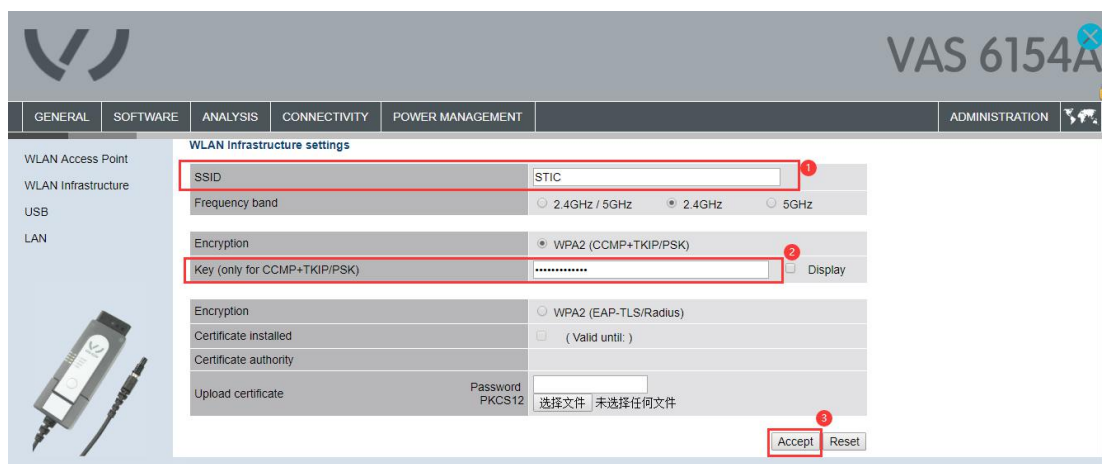


Fig4-11 Configure LAN SSID (WiFi name) and password

4.3.3 So far, the configuration of SVCI 6154A WLAN has been completed. Unplug the USB cable and disconnect SVCI 6154A from the computer. Then connect the SVCI 6154A device to the car through the OBD interface. Wait for 10 seconds. The SVCI 6154A device will make a long "drop..." sound and the mode light will change to orange light, indicating that the current SVCI 6154A device is successfully connected to the current LAN. Then connect the current computer to the current LAN through network cable or WiFi, restart SVCI 6154A device manager, click to enter "device management" to read the current SVCI 6154A hardware information (select your device in the pop-up box of the device list). Successful reading indicates that the connection is successful. If you cannot successfully read the hardware information, please check the configuration information and network restrictions.

4.4 SVCI 6154A restore factory settings

First perform the operation in 4.1, then select wireless configuration in SVCI 6154A device manager system settings, enter the wireless configuration page, select "management" on the right side of the current page, pull down the scroll bar to the bottom, check "restore to factory settings", and then click "accept" to complete the SVCI 6154A reset operation, as shown in the following figure

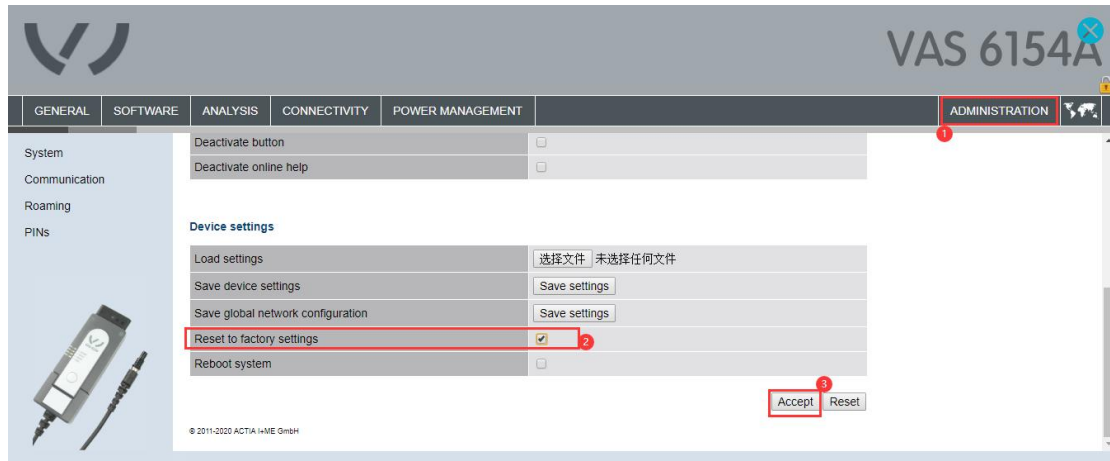


Fig4-12 Restore the equipment to factory settings

Note: whether it is USB connection, AP mode connection (device WiFi direct connection), or base station mode connection (LAN connection). When the SVCI 6154A device is connected for more than 10 minutes without any operation, the SVCI 6154A device will sound "Di... Di...", which is a normal phenomenon.

5. Communication with ODIS software

First: you need to complete section 4, and then select one of the three connection modes (USB connection, AP mode connection and station mode connection).

Second: Running the SVCI 6154A device manager software to read the hardware information of the device to complete synchronize the device with the ODIS software.

Third: Running ODIS software or ODIS engineer software directly or start them from SVCI 6154A device manager Quickloader.

Fourth: Select diagnostic interface from the Configuration menu on the right of the ODIS software. As shown in the figure below

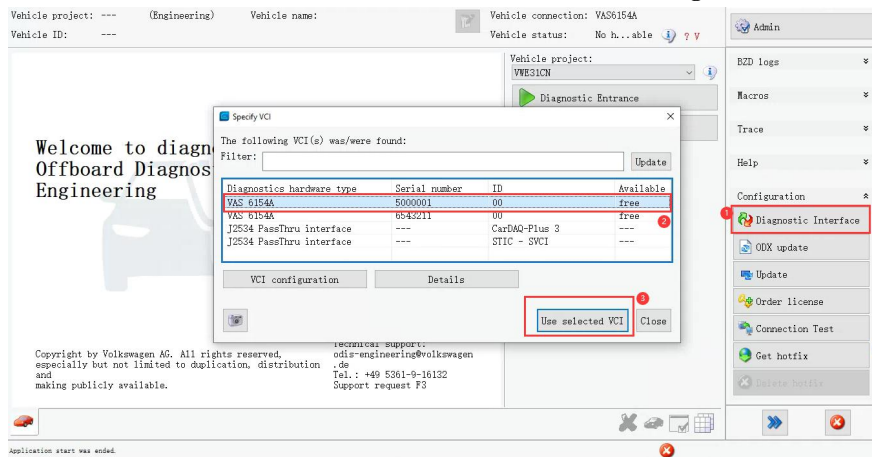


Fig5-1 select VCI

6. SVCI 6154A remote diagnosis instruction

SVCI 6154A remote diagnosis function is mainly used to assist in remote vehicle detection and diagnosis, online programming, immobilizer matching, code setting and other original functions. Using the remote diagnosis function, SVCI 6154A must use the station connection mode (WLAN connection). Due to the high requirements of remote diagnosis on the network, it is necessary to ensure that the client and server networks are smooth and unblocked when performing the remote diagnosis function. Remote diagnosis is divided into client and server. The work flow chart is as follows:

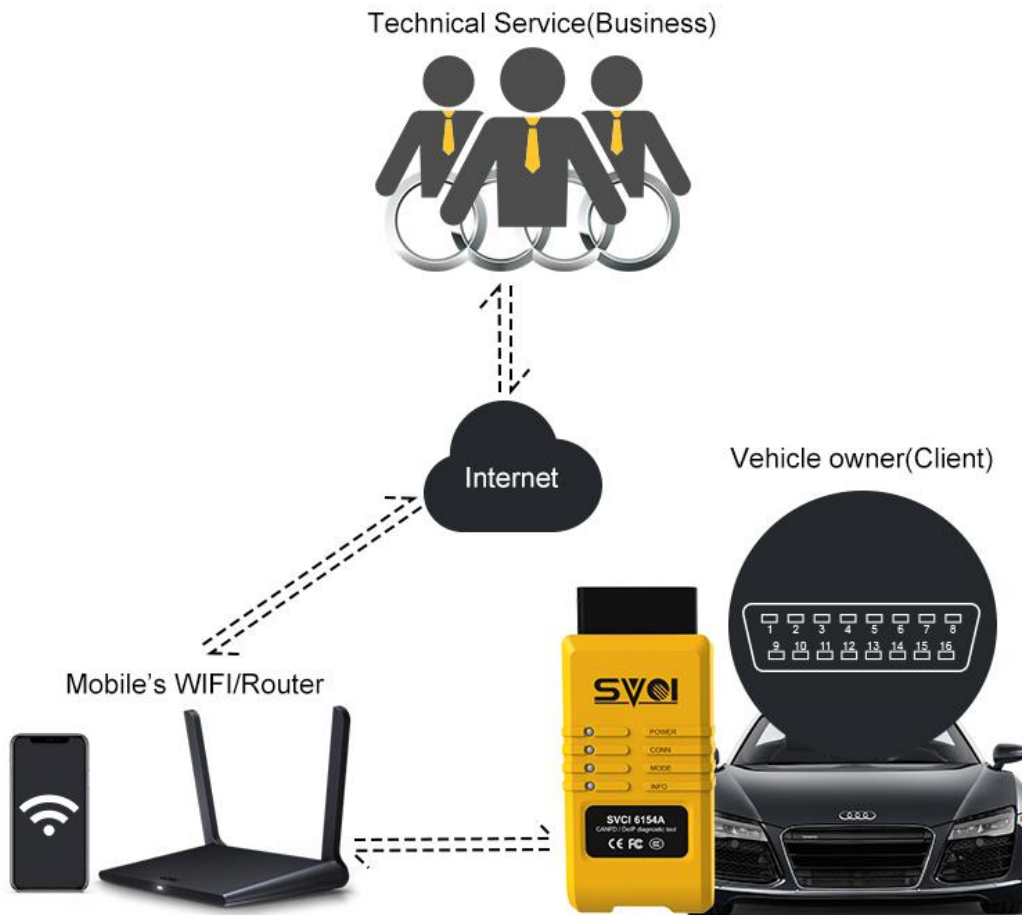


Fig6 Show sample of remote diagnosis connection

6.1 Remote diagnosis - client

The client needs to prepare a vehicle of any Volkswagen Group, a set of SVCI 6154A equipment and WLAN (mobile' wifi or workshop network) environment, and install SVCI 6154A device manager software on the laptop.

Actions to be performed by the client:

Step 1: please refer to the operation in 4.3 to configure the SVCI 6154A device into the current WLAN. After the configuration is successful, insert the SVCI 6154A device into the OBD interface of the vehicle to be tested.

Step 2: turn on the computer, connect the computer to the current LAN, open the SVCI 6154A device manager software, click the "device management" menu to view the hardware information of SVCI 6154A. After confirming that the device connection is normal, select "remote diagnosis" in the menu bar to obtain the device serial number and password and send it to the service provider.



fig6-1 remote diagnosis Client application

6.2 Remote diagnosis – Business

The server needs to prepare a computer that can access the Internet and has installed ODIS related software. At the same time, it needs to install SVCI 6154A device manager software, and then enter the device serial number and password provided by the customer into remote diagnosis for remote connection operation, as shown in Figure 7-1. After the remote diagnosis connection is successful, click the "device management" menu. After successfully reading the relevant information of the client hardware, start the ODIS software of the local computer, and select the corresponding VCI according to the customer's device serial number in the VCI selection list, as shown in Figure 6-2 below. If you need to modify the equipment serial number identified by ODIS software (50000001 below), you can modify it in the equipment management menu in SVCI 6154A equipment manager software, as shown in Figure 4-3.

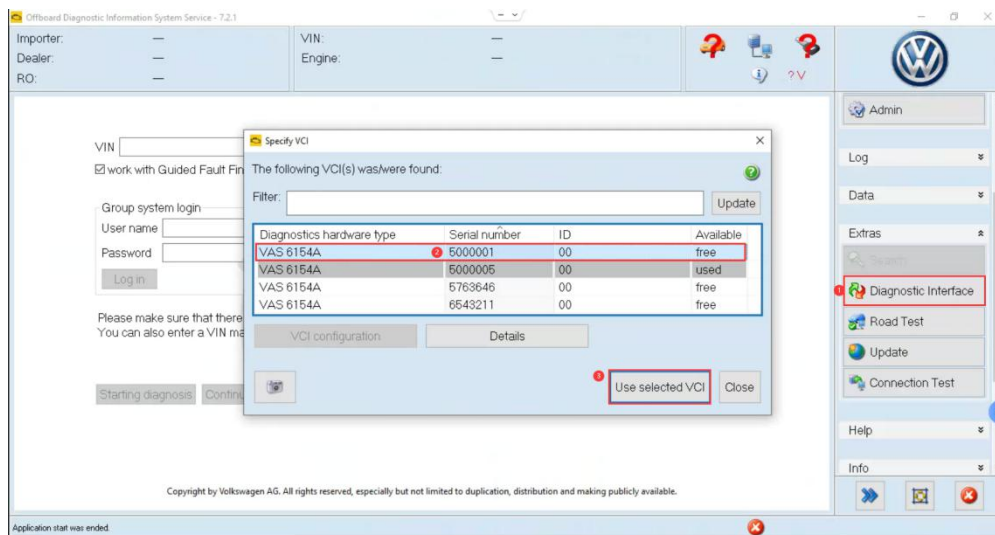


Fig6-2 Select client VCI