Service Information

Volkswagen

Diagnostic Device Hardware & Windows® **Number: VHW-17-04**

Subject: VAS 6150D Diagnostic Laptop - Windows 10 System Recovery Instructions **Date: Feb. 08, 2017**

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Notes:

- *Please **read these instructions carefully and in their entirety** before performing any procedures. **If you do not understand these instructions, arrange to have a qualified person perform these procedures.***
- *Heed all prerequisite requirements and notes, and **follow all instruction steps in the Section order given**.*
- ***Discard all printed copies of this document after use**. Revisions may be issued at any time. Always check ServiceNet for the latest version.*

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1.0 – Introduction

1.1 – General Information

This document contains instructions to recover **Windows 10** on **VAS 6150D** diagnostic laptops.

Due to their function as diagnostic tools, **VAS diagnostic laptops** are equipped with a proprietary Windows operating system that utilizes a partitioned hard drive.

ATTENTION!

The Windows 10 system recovery instructions provided here supersede the system recovery information in the Panasonic booklet included with the laptop shipment when new, as well as the recovery information found in Windows 10 *Control Panel* and *Settings.*

1.2 – Process Overview

Recovery

Windows 10 recovery files are located on the device's hard drive partition**.** A recovery procedure overwrites the corrupt or malfunctioning Windows 10 boot files with a copy from the hard drive partition.

All data on hard drive C:\ is erased and replaced. The Windows 10 recovery data resident on the hard drive partition is retained if recovery is required in future.

Post-Recovery Setup

The post-recovery setup instructions included here **restore the device to its operational state as initially unpacked and set up when new (using VWGoA Service Information instructions).**

Included are references to additional documentation for various additional settings, the reinstallation of ODIS Service diagnostic software and VAS 6154 Diagnostic Interface setup. Details in Section 2.0.

Diagnostic Software License and Security Certificate Reinstallation

The Windows 10 recovery process deletes the previously-installed ODIS Service license and certificate files. As a result, **the license and security certificate files** that were originally obtained and saved on a USB flash drive as instructed in the **Installation Phase 1** instructions document **must be available for reinstallation.** A backup text document containing the device's **hardware key** must also be available.

Note:

- *If a backup copy of the **security certificate** was not saved, a replacement must be requested from **eCRMs** and imported to Windows, and ODIS Service after reinstallation.*
- *If a backup copy of the **license file** was not saved, a replacement license must be requested from **eShop** prior to reinstalling ODIS Service.*

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2.0 – Additional Documentation

Access or print the following **Service Information (SI)** documents with additional instructions.

SI Document Category	Document Titles
ODIS Service	***Installation Phase 1 – Preparation, License & Security Certificate Process Instructions***
	Installation Phase 2 - Software Installation & Configuration Instructions
Diagnostic Device Hardware & Windows	***VAS Diagnostic Device Computer Name Builder***
	VAS 6154 Diagnostic Interface – Initial Setup Guide
	VAS 6154 Diagnostic Interface – Startup Guide
☐	**Additional Documentation steps completed. Proceed to Section 3.0 – below.**

3.0 – Preparation Checklist

Complete the **Preparation Checklist** below. Additional checkboxes are provided throughout this document to note the fulfillment of prerequisites, completion of sections etc.

✓	Preparation Checklist
☐	Additional documentation available from ServiceNet as specified in **Section 2.0.**
☐	**USB flash drive** with **backup copies of the license, security certificate and hardware key doc.** are available.
☐	**Connect** the power adapter directly to the laptop.
☐	**If the device is capable of booting to Windows and starting ODIS Service:** Finalize all saved diagnostic sessions and transmit logs where applicable.
☐	**Disconnect** the Ethernet (network) cable where applicable.
☐	**Switch** the **Wireless Operation Switch** to the **OFF position** as illustrated **-arrow-:** **VAS 6150D** Middle right side behind **WIRELESS** door
☐	**All Preparation steps completed. Proceed to** **Section 4.0 – Page 4.**

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4.0 – Recovery

Prerequisites:

- ☐ ***Confirm:*** *Device* ***removed*** *from base station (port replicator).*
- ☐ ***Confirm: Ethernet cable DISCONNECTED & wireless operation switch in the OFF POSITION!***

ATTENTION!

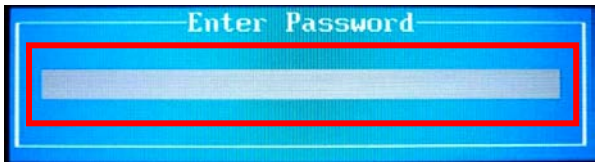
The power adapter must be connected directly to the device during recovery. DO NOT recover on battery power alone!

1. **Turn on** the device.
2. When the **Workshop Equipment** logo is displayed, quickly press the **F2** key on the keyboard to enter the setup.

A password prompt appears.

3. **Enter** password: **vas6150**

   (lower case, no spaces):



4. **Press** the keyboard **Enter** key:

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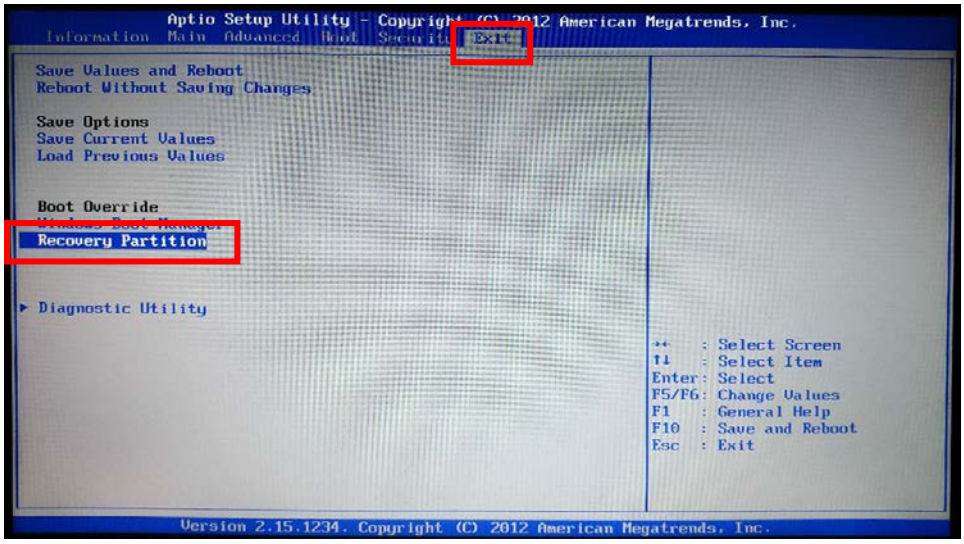
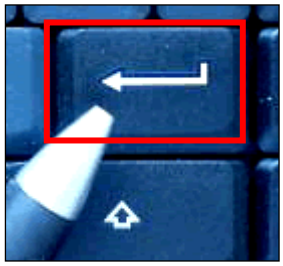
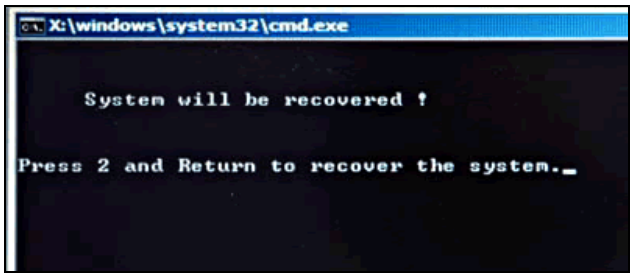
5. Use the **right arrow key** to select the **Exit** tab:
6. Use the **down arrow key** to select**:** **Recovery Partition** **,** and then press the **Enter** key to continue:

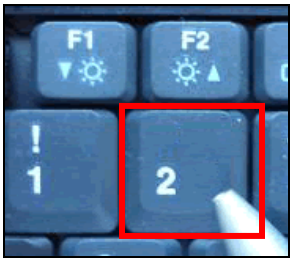




After the **Enter** key is pressed, the system recovery starts. After approximately 2 minutes, the message "**System will be recovered**" is displayed.

7. **Press** the **2** and **Enter** keys to continue:





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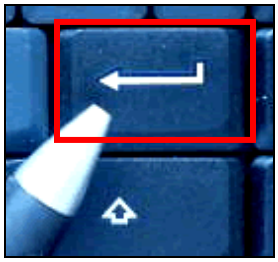

- Allow 30 – 90 minutes for device recovery (device-dependent).
- The progress window may appear to stall at 99% - 100%. Please be patient!
- When complete, the system will automatically reboot and display a series of automatic setup, registry and service screens followed by the initial Windows setup screen.

☐ **Recovery steps completed. Proceed to** **Section 5.0 - Page 6.**

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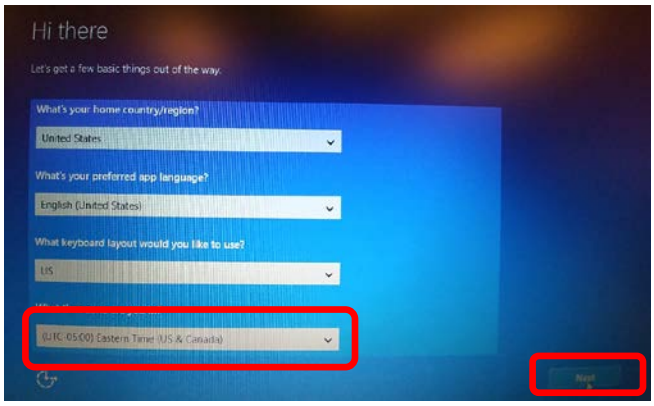
5.0 – Post-Recovery Setup

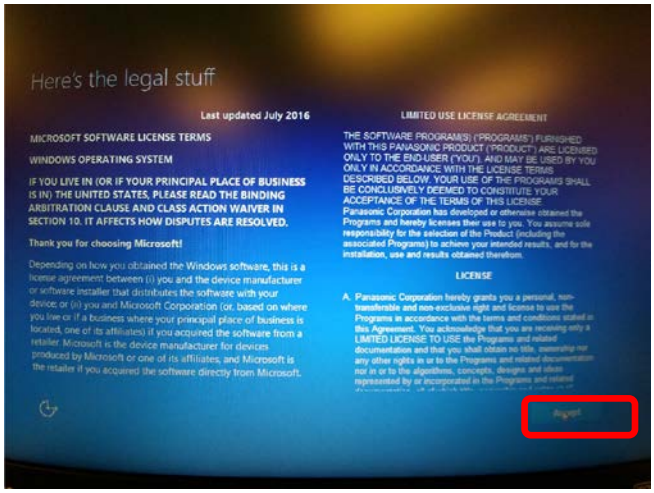
5.1 – Windows 10 Startup & Initial Setup

5.1.1 – Startup Settings

1. **Confirm** the **regional settings**. Then **scroll down** and select the **applicable time zone**. Select **Next:**



3. **Accept** the license terms:



A series of automatic welcome and setup screens appears (no user intervention required). This is followed by a "…signed out" display and automatic restart after a one minute delay.

4. **Wait** until the device restarts. Click **Close** if desired.

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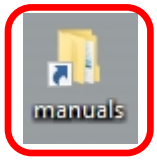
After the device restarts, it can be mounted to its base station (port replicator) **if desired.** However, t**he power adapter must remain connected** to the laptop or base station for the remaining setup steps.

5.1.2 – Delete Non-Applicable Information

1. **Right-click > Delete** the **manuals** folder from the Windows desktop:



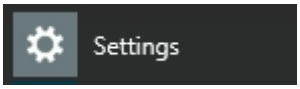
2. **Empty** the **Recycle Bin.**

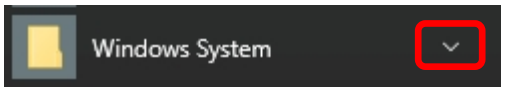
5.1.3 – Prepare Windows Desktop

The desktop layout and icons on VAS 6150D should remain limited to those essential for its initial setup, and subsequent use as a **vehicle diagnostics device only.**

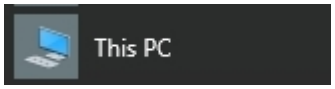
The installation of personal software and desktop personalization other than that specified below is not recommended or supported.

The following shortcut "drag-and-drop" link creation steps enable quick, familiar access to key Windows functions directly from the desktop. Shortcut locations will be referenced during the remaining setup steps and in other Service Information documents.

1. From the taskbar, click the icon to reveal the **Windows Start menu**.
2. **Scroll down** and locate the **Settings** category from the Windows Start menu.
3. **Select and drag** the 

icon from the Windows Start menu to the desktop.
4. **Reopen** the **Windows Start** menu.
5. **Scroll down** the Windows Start menu and **expand** ( ) 

6. **Select and drag** the

icon from the Windows System menu to the desktop.
7. **Select and drag** the 

icon from the Windows System menu to the desktop.

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5.1.4 – Set Date & Time

> ***Note:***
>
> *The correct date and local time must be set on the device to ensure accurate ODIS Service diagnostic protocol submissions.*

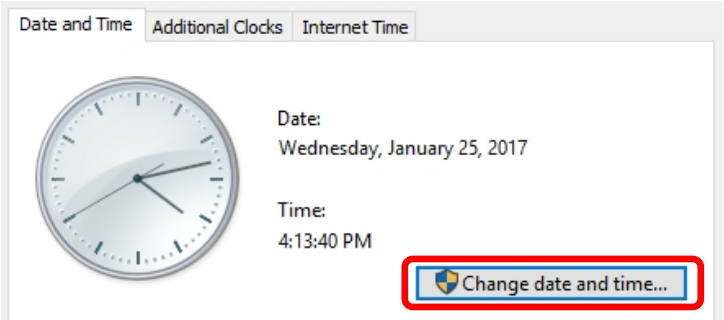
1. From the Windows desktop, click the

icon.

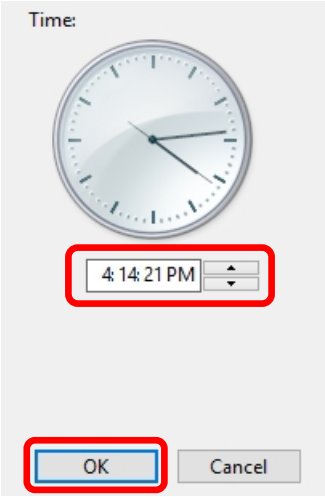
2. From the Control Panel menu, select the

category.

3. Confirm that the correct **Date:** appears, and then select **Change date and time…:**



4. Set the correct time and time of day as applicable, and then select **OK:**



5. **Close** the Date & Time window.

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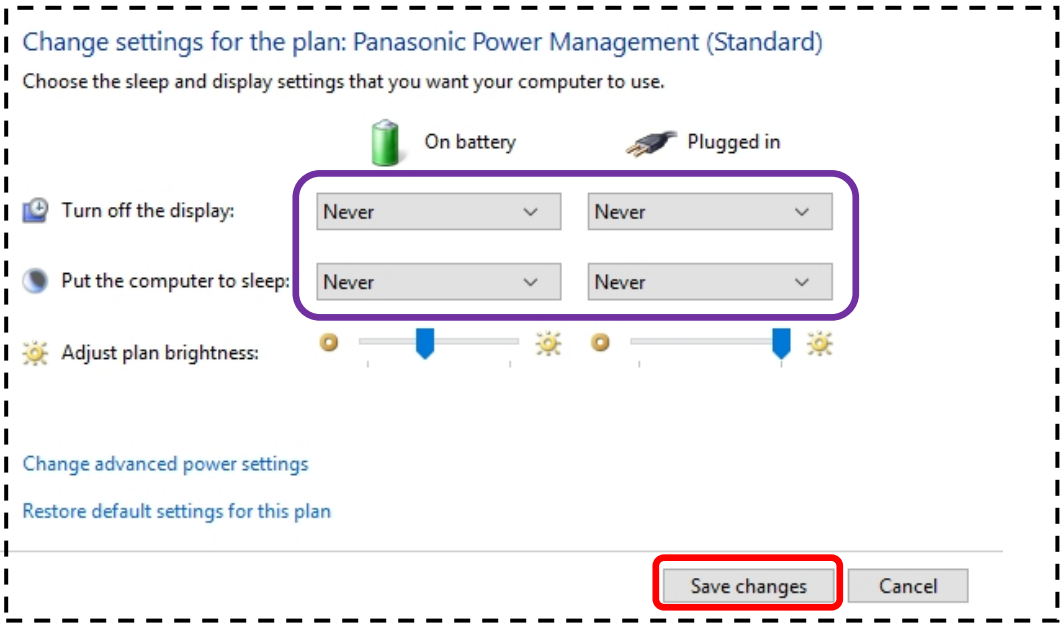
5.1.5 – Device Power Management

To ensure uninterrupted data transfer when performing lengthy Software Version Management (SVM) procedures, configure the device to **remain on** as follows:

1. From the **Control Panel** main menu, select the

category.
2. From the Control Panel Home menu (on the left), select: **Change when the computer sleeps**
3. Select **Never** from all category dropdowns, and then select **Save changes**:



4. **Close** all remaining Windows.

> ***Note:***
> *Retrieve the* **additional documentation** *specified in Section 2.0 before continuing.*

5.2 – Network Setup

5.2.1 – Set Computer Name

If more than one diagnostic laptop or tablet is connected to the dealership network, each device must be assigned a different computer name.

For detailed instructions refer to ***Service Information – Diagnostic Device Hardware & Windows*** document title: ***VAS Diagnostic Device Computer Name Builder***

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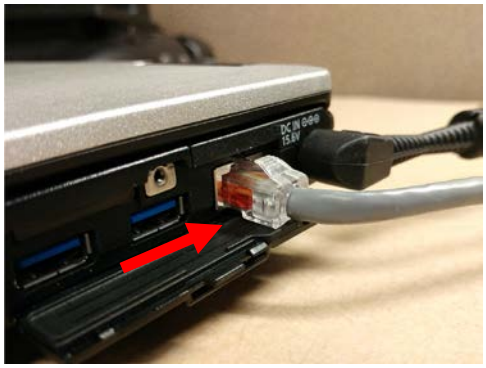
5.2.2 – Enable Network Connections

Prerequisites:

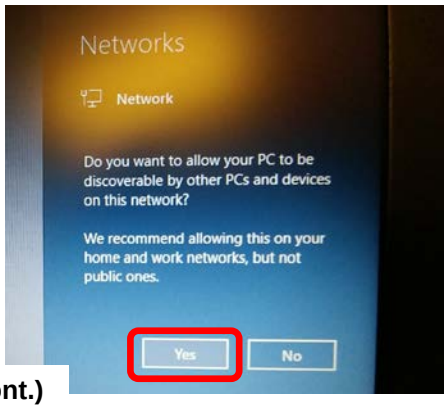
- ☐ *Network cable (Ethernet) and Wireless Local Access Network (WLAN) connections available.*
- ☐ *Person performing network setup is familiar with all dealership network particulars, and I.T. Policy where applicable. E.g.: Network set for **DHCP,** **OR** **Static IP** setup (all IP addresses known), WLAN SSID (name) & security key, additional antivirus and security firewall settings if applicable etc.*

1. Open the **WIRELESS / Headphones / SD slot** access cover (right side – middle) and switch the wireless operation switch to the **ON** position**:**

2. Connect the Ethernet cable to the network port (right side – rear)



3. **If** the following prompt appears, select **Yes:**



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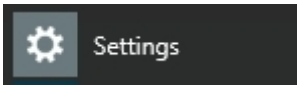
4. From the Windows desktop, click the 

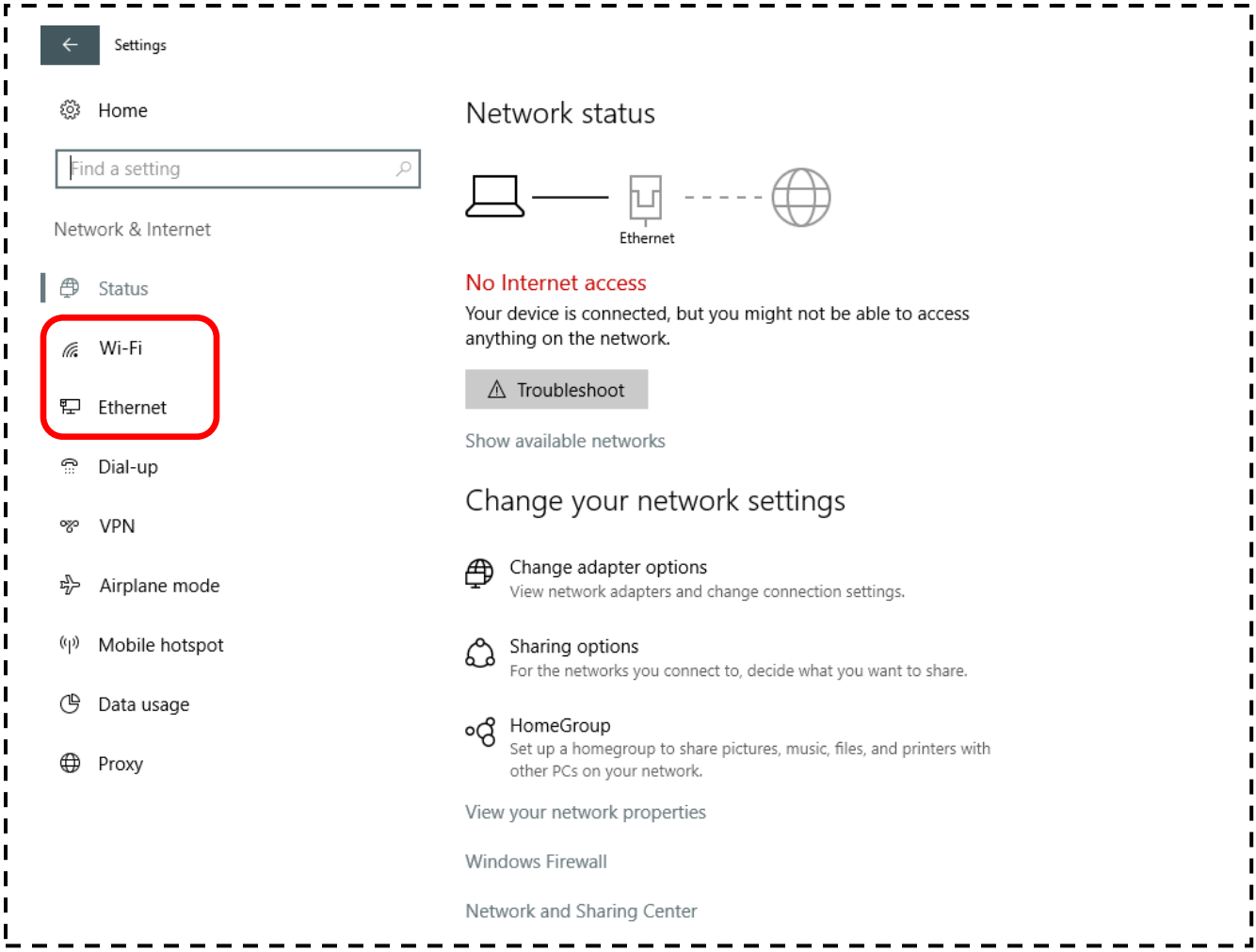
icon.

5. From the **Settings** menu, select the

category.

6. Select the **Wi-Fi** and/or **Ethernet** subcategory as applicable:

   Review the setup instructions for both and enable their connections in accordance with the dealership network setup, and I.T. policies where applicable:



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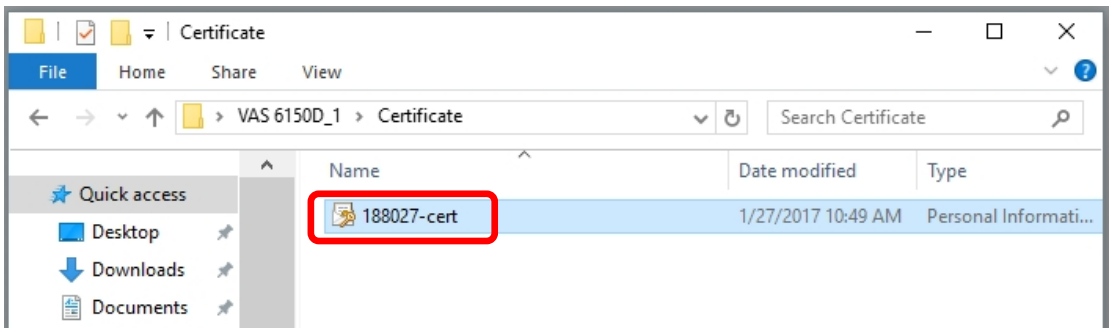
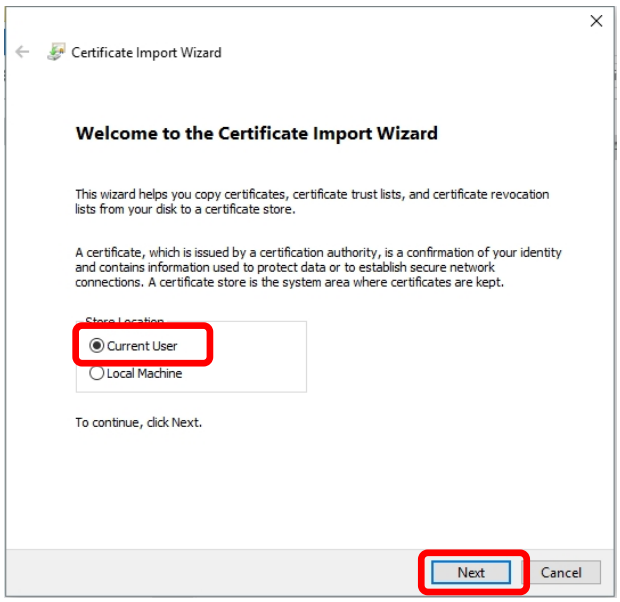
5.3 – Re-Import Security Certificate to Windows

> ***Note:***
>
> *The folder containing the **backup license and security certificate files,** and **hardware key document** must be copied from the USB flash drive to the Windows desktop before proceeding.*

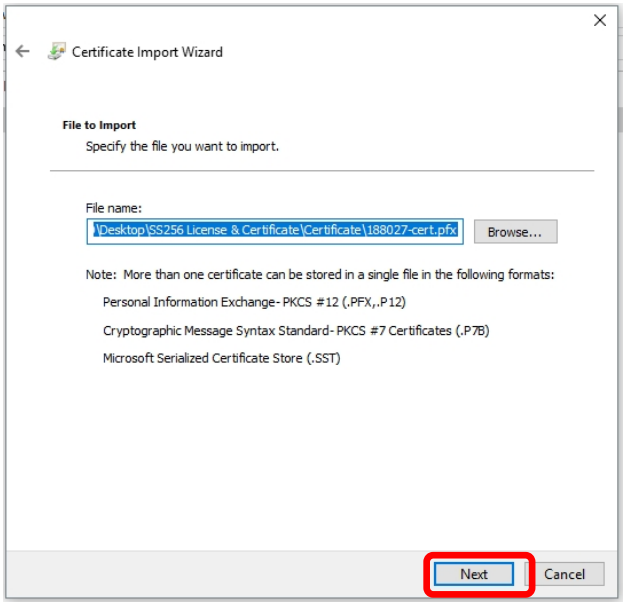
1. Navigate to the **folder** containing the license and certificate files.
2. **Open** the **Certificate** subfolder:
3. **<u>Double-click the certificate file:</u>**



4. Select **Current User**, and then select **Next: . . . Next:**



. . .



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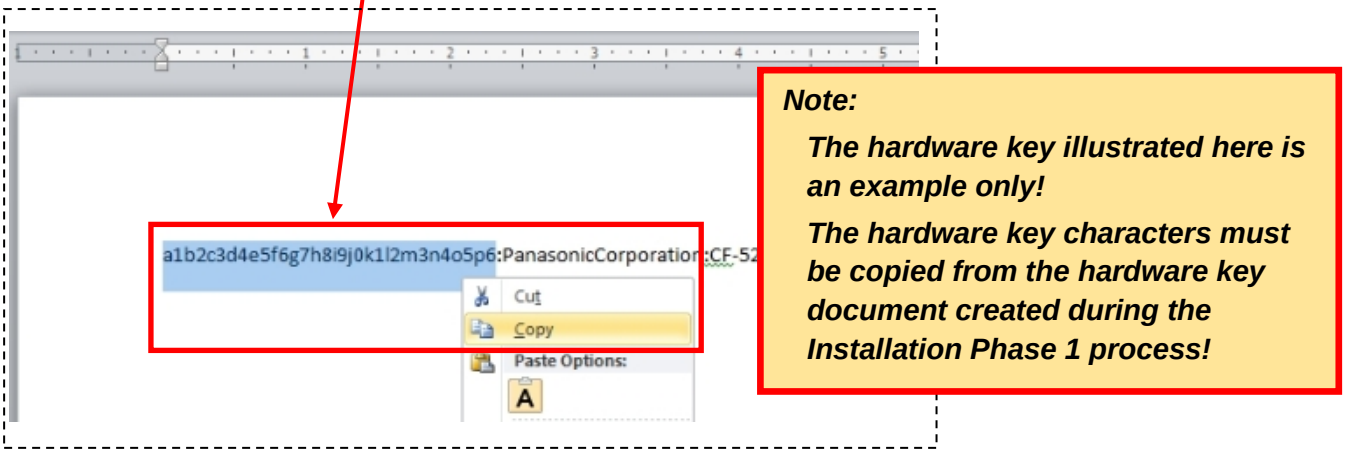
5. **Open** the **Hardware Key** document:

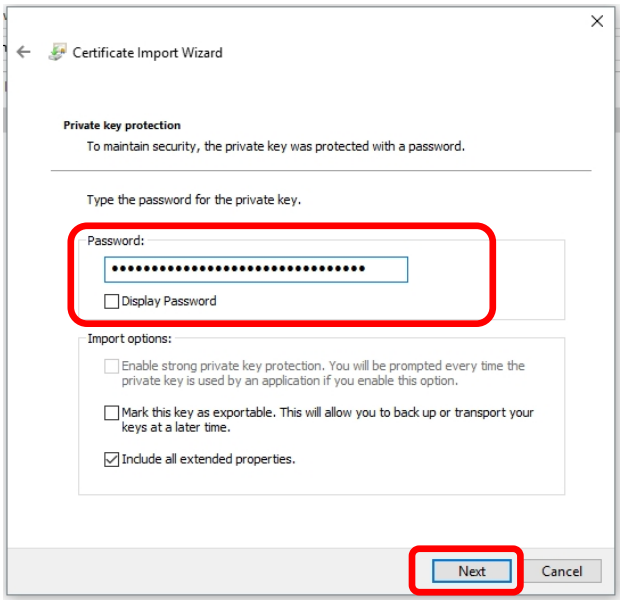
6. **Select** and **Copy** **the first 32 characters (only)** of the device's **hardware key.**

Example:

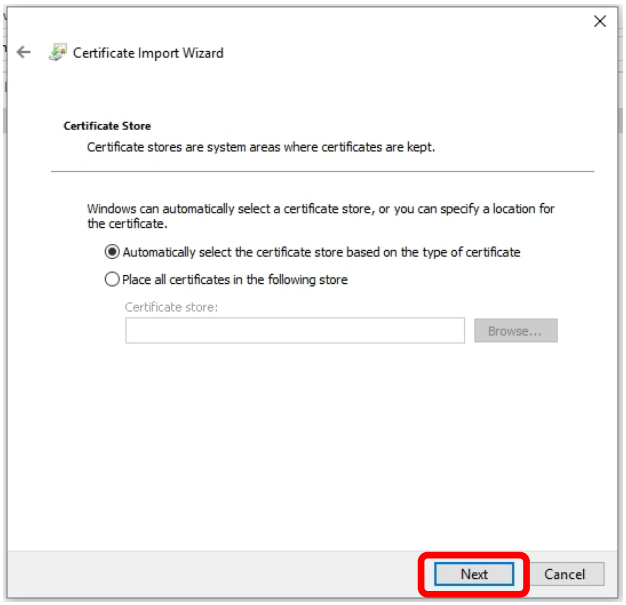


The characters are saved in Windows "clipboard" memory.

7. **Paste** the 32-characters into the **Password:** entry field, and then select **Next: . . . Next:**



. . .



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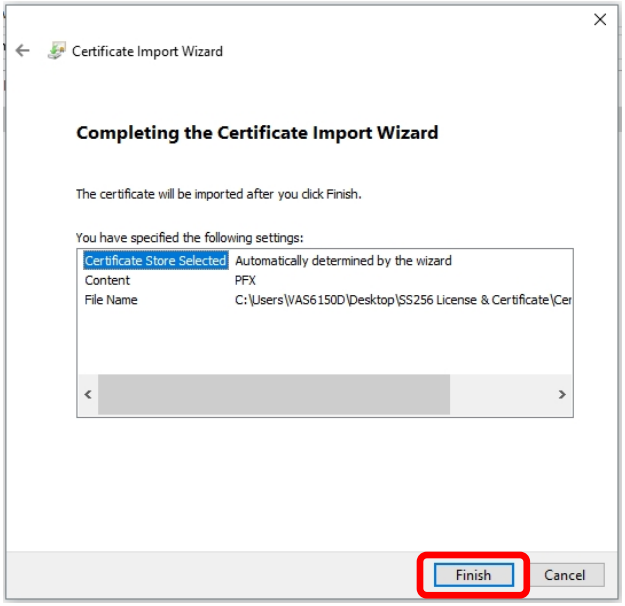
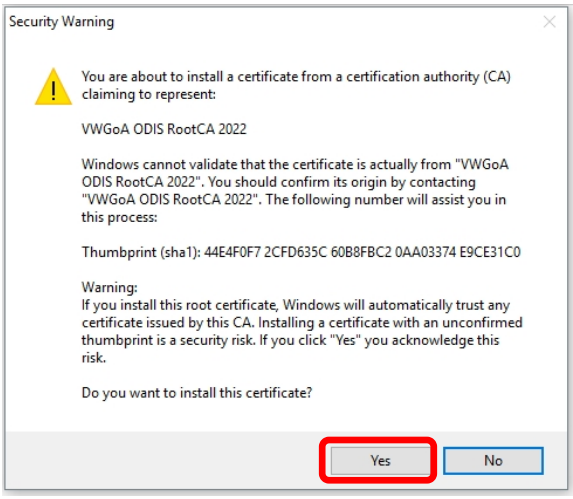
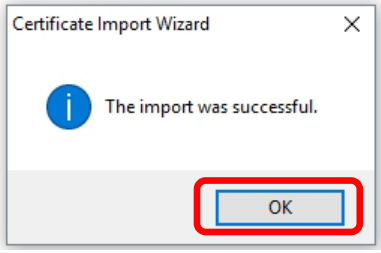
8. Select **Finish . . . Yes:**





9. Click **OK:**



5.4 – Reinstall & Configure Offboard Diagnostic Information System Service (ODIS Service)

Follow the detailed instructions in **Service Information – ODIS Service** document:

Installation Phase 2 – Software Installation & Configuration Instructions

5.5 – Setup VAS 6154 Diagnostic Interface

☐ Perform initial setup procedures. Follow the detailed instructions in **Service Information - Diagnostic Device Hardware & Windows** document:

VAS 6154 Diagnostic Interface – Initial Setup Guide

☐ Perform startup procedures. Follow the detailed instructions in **Service Information - Diagnostic Device Hardware & Windows** document:

VAS 6154 Diagnostic Interface – Startup Guide

☐ **Recovery and Post-Recovery Setup steps completed.** **Refer to Section 5.6 – Page 15**

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5.6 – Supplementary Setup & Function

Depending on the recovered diagnostic device's previous preparation level and/or dealership requirements, the following supplementary setup procedures **may or may not** be required. Review and confirm as applicable.

5.6.1 – VAS 6356 Test Instruments Box - Configuration

If a VAS 6356 Test Instruments Box was previously configured for use with the recovered device, it must be connected and the initial configuration repeated.

For detailed instructions refer to **Service Information – Diagnostic Device Hardware & Windows** document title**: *VAS 6356 Test Instruments Box – Software Configuration – ODIS Service Only***

☐	Completed	☐	Not applicable

5.6.2 – Printer Driver Reinstallation

If a USB (cabled) or wireless (WLAN) printer was previously configured for use with the updated device, the necessary driver installation and/or configuration must be repeated.

Obtain the print driver as applicable and refer to the installation documentation supplied with the printer. Ask your dealership systems administrator or IT professional for assistance if necessary.

☐	Completed	☐	Not applicable

5.6.3 – Reinstall Antivirus Software

Reinstall the antivirus software as may be required by the dealership IT policy. Ask your dealership systems administrator or IT professional for assistance if necessary.

☐	Completed	☐	Not applicable

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