



# **RTL81xx WFA Sigma User Guide**

## **v1.8**

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This document is intended for the software engineer’s reference and provides detailed programming information.

Though every effort has been made to ensure that this document is current and accurate, more information may have become available subsequent to the production of this guide. In that event, please contact your Realtek representative for additional information that may help in the development process.

This document is an unapproved draft of a proposed application and subject to change.  
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## Revision History

Rev	Date	Editor	Note
0.1	2010/4/8	Haich, Bruce	1. First create
1.0	2010/12/17	Bruce	1. Support Sigma installation and usage docuemt.
1.1	2010/12/29	Bruce	1. Revise the WFA endpoint installation procedure.
1.2	2011/4/22	Bruce	1. New CAPI commands and support WiFi Sigma 4.1.0
1.3	2011/5/30	Bruce	1. Revise setting up the sigma environment by the services.
1.4	2011/6/2	Bruce	1. Add uninstallation document for driver package and sigma utility.
1.5	2011/9/21	Bruce	1. Add TDLS document.
1.6	2011/9/26	HPFan	1. Revise for support both p2p and TDLS.
1.7	2011/10/17	Bruce	1. Revise the installation description of WFA endpoint and CLIs.
1.8	2011/12/21	HPFan	1. Revise document for sigma endpoint installation

## 1. Environment Requirements

### Realtek Sigma Installation

Since the WFA Sigma test needs the automation service and command in the platform, the test engineer should follow these instructions to install the Sigma required components.

#### 1.1. OS Support

The supported OS version is Windows 7 x86 (32-bit).

#### 1.2. Setup the Environment

Before installing the Realtek test bed package, please make sure that the windows user in the tested platform has the administrator privilege. In the path “ControlPanel->User Accounts” and click the button “Change Your Account Type”, in this window please make sure your account is **Administrator**.

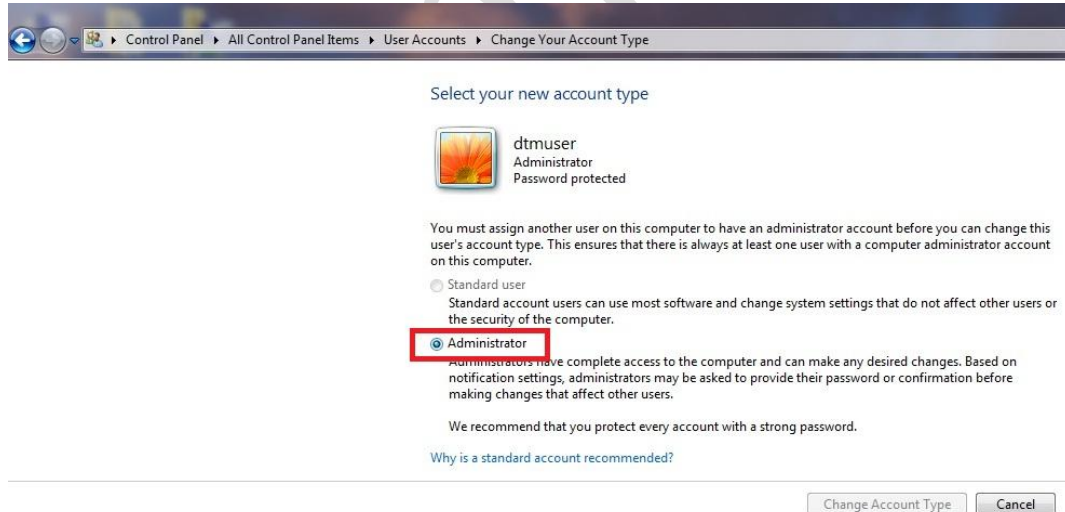


Figure 1

To prevent the link block from the windows firewall, you should turn off the windows firewall. Open the window in “ControlPanel->Windows Firewall” and click the button “Turn Windows Firewall on or off” and then turn off the firewall of the private and public network locations.

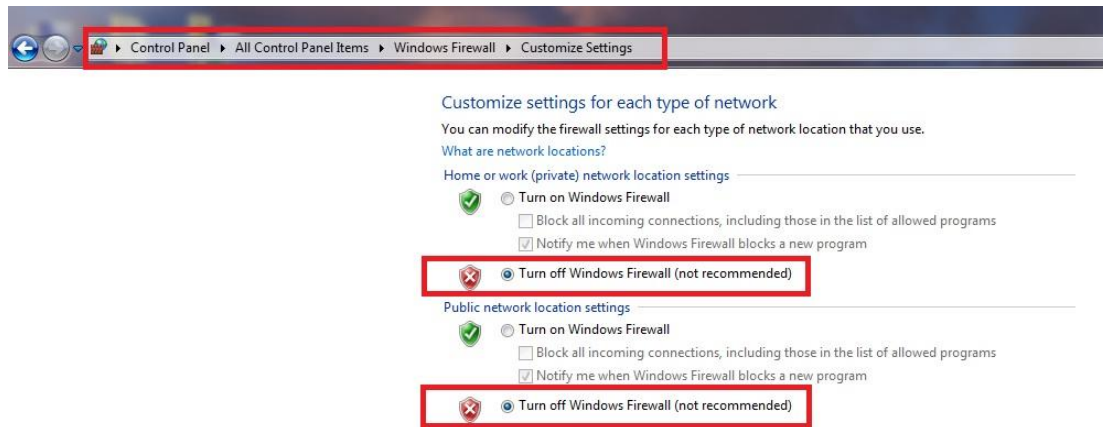


Figure 2

If your PC comes with a pre-installed Realtek driver, please uninstall the driver before installing the Realtek test bed package. This can be done from the control panel or device manager. To uninstall an older Realtek test bed driver, please reference section 4.

The installation of Realtek test bed package includes two parts. The first is to install the driver utility and the second is to setup the Realtek sigma CLIs.

## 2. Install RTL Wlan Utility and Nic Driver

Execute "Setup.exe" in the "(yyyyyy)WiFi-RTLWlanE\_Windows\_Driver\_Installation\_v[version]" folder of this package to install Realtek Wireless Lan driver where the (yyyyyy) is the date and [version] is the version number of release.

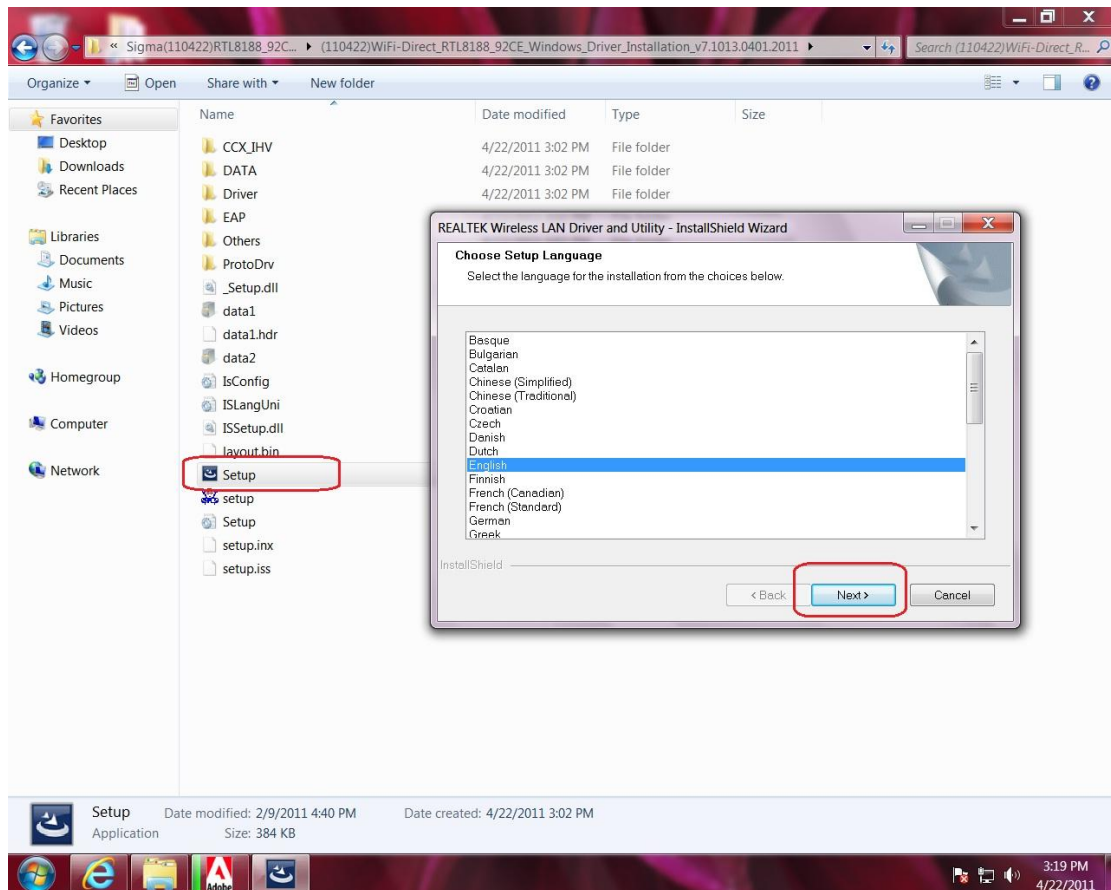


Figure 3

In installing process, the windows may prompt the notification as the following Figure 4, please choose “Install this driver software anyway”.

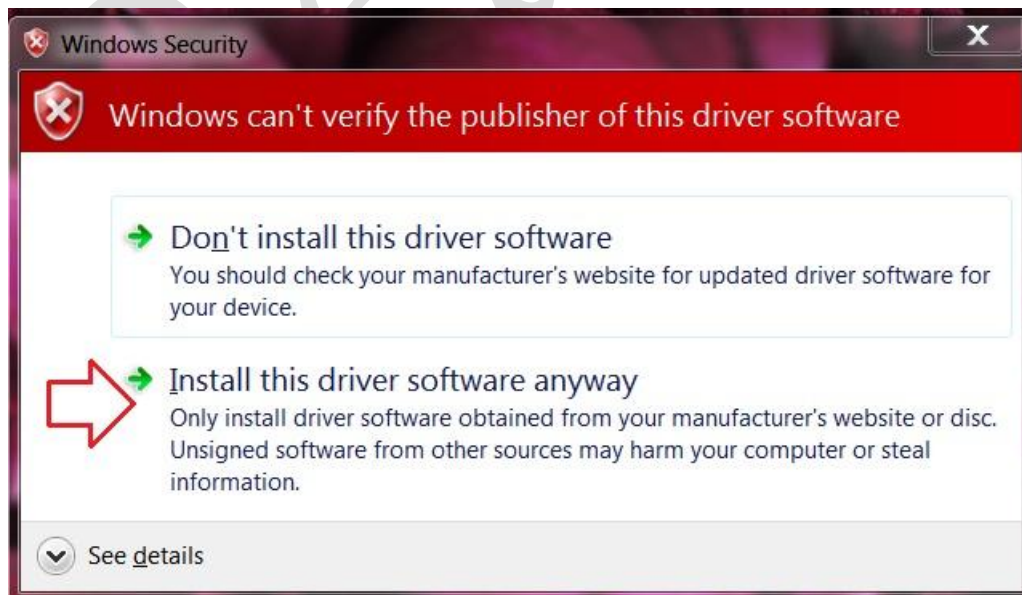


Figure 4

After installation, you may be asked to reboot your system.

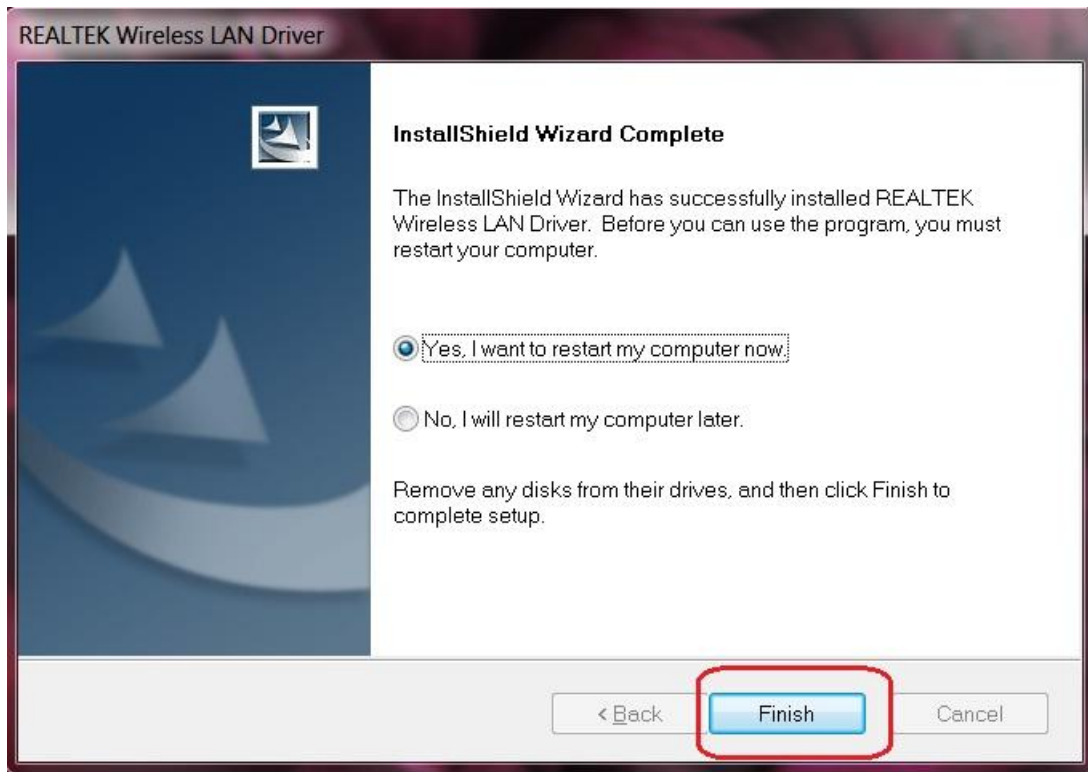


Figure 5

### 3. Install Realtek Sigma CLIs

Run “install.bat” in the “(yyyyyy)Realtek\_RTLWlanE\_WiFi\_Sigma\_v[version]” folder of this package to install Sigma endpoint where the (yyyyyy) is the date and [version] is the version number of release. After successful installation and rebooting the system, you should get the command line console as Figure 6. It is ready for WiFi Sigma testing.



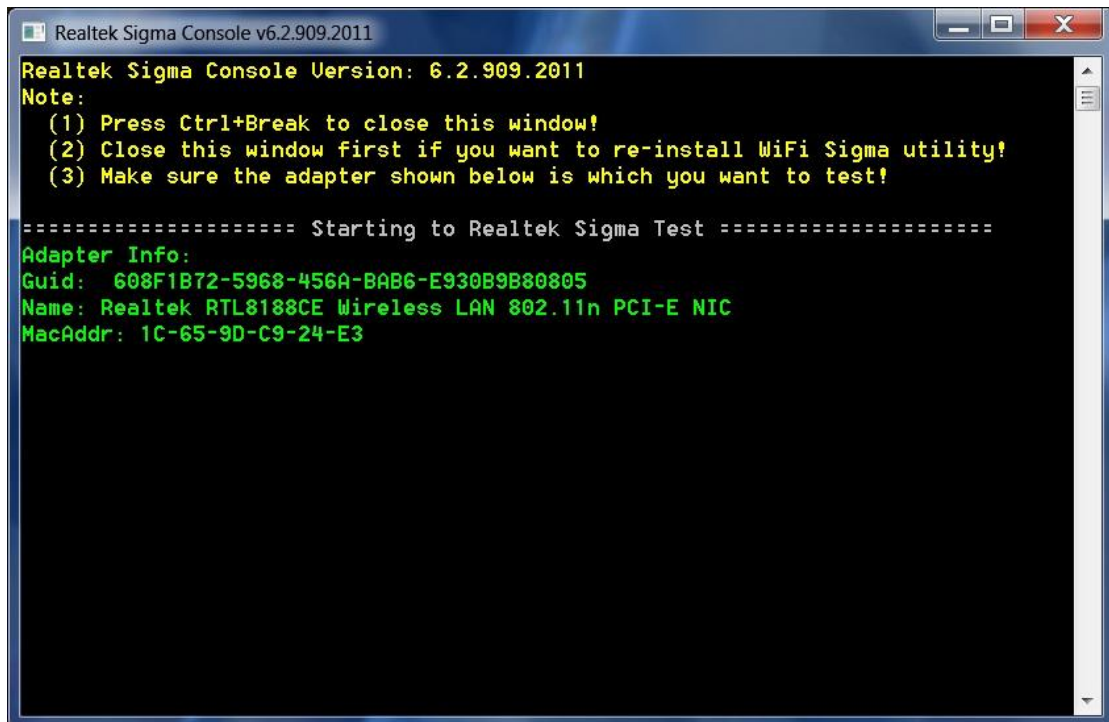


Figure 6

At this point, you have completed enabling Realtek's test bed sigma environment.

#### 4. Uninstall WLAN Driver

If you no longer require this environment, you can uninstall the package. To uninstall the Realtek Wireless LAN driver, run Start->REALTEK Wireless LAN Diagnostic->Uninstall.

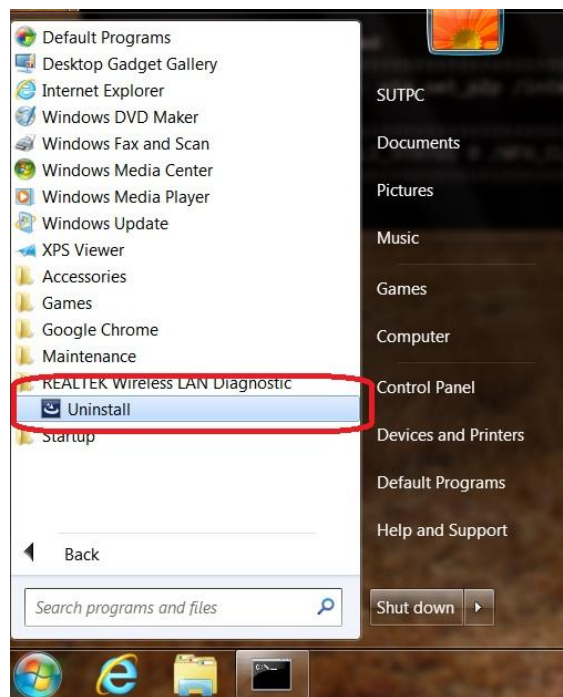


Figure 7