RTL81xx WiFi-Direct User Guide

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USING THIS DOCUMENT

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. USE AT YOUR OWN RISK!

Content

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.　Environment Requirements

WiFi-Direct Sigma Installation

Since the WiFi-Direct 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

Windows 7 x86 (32-bit) only.

1.2.　Setup the Environment

Before installing the Realtek WiFi-Direct 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**.
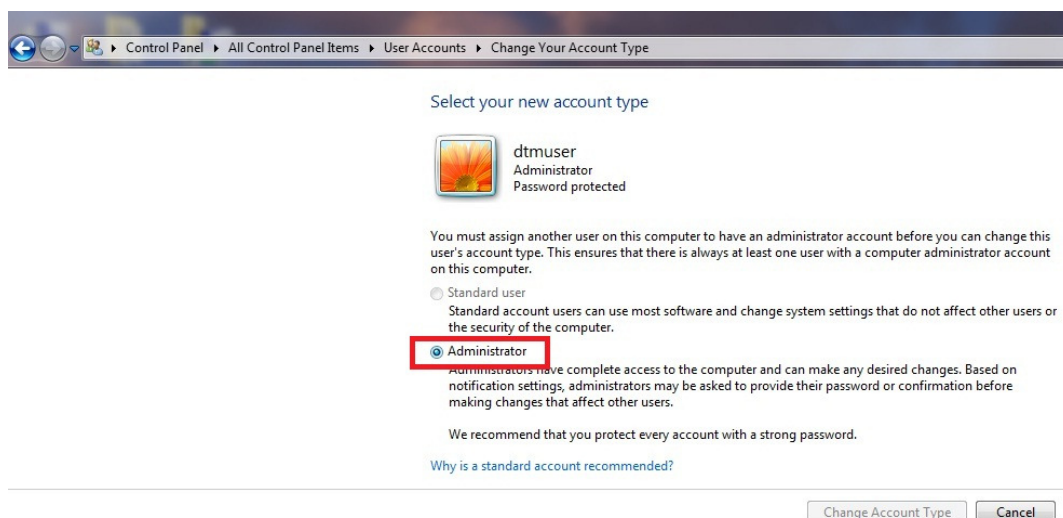

Figure 1

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.
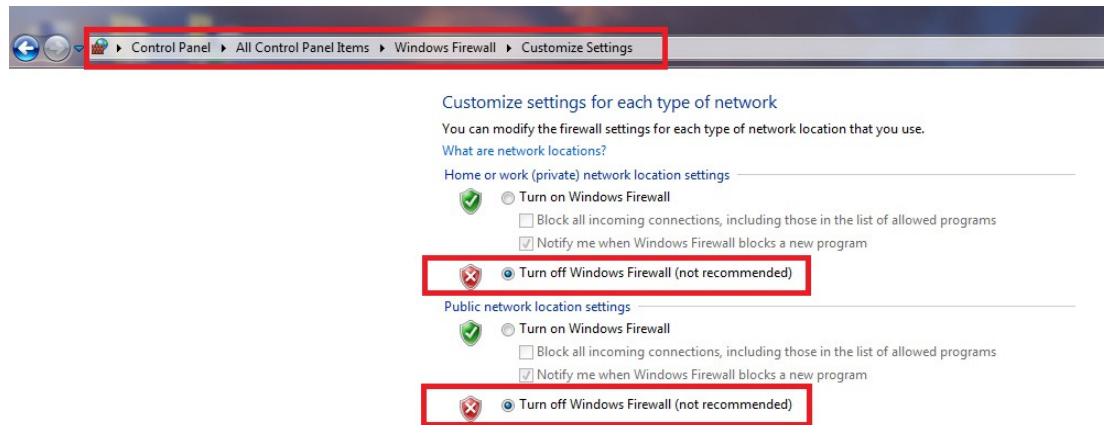
Figure 2

If your PC comes with a pre-installed Realtek driver, please uninstall the driver before installing the Realtek WiFi-Direct test bed package. This can be done from the control panel or device manager.

The installation of Realtek WiFi-Direct test bed package includes two parts. The first is to install the driver utility and the second is to setup the Realtek sigma CLIs. The guide assumes that Sigma agents released by the WFA have already been installed.

2. Install RTL Wlan Utility and Nic Driver

Execute "Setup.exe" in the main folder of this package to install Realtek Wireless Lan driver in the "(yyyyyyyy)WiFi-Direct_RTL81xx_Windows_Driver_Installation_v[version]" where the (yyyyyy) is the date and [version] is the version number of release.
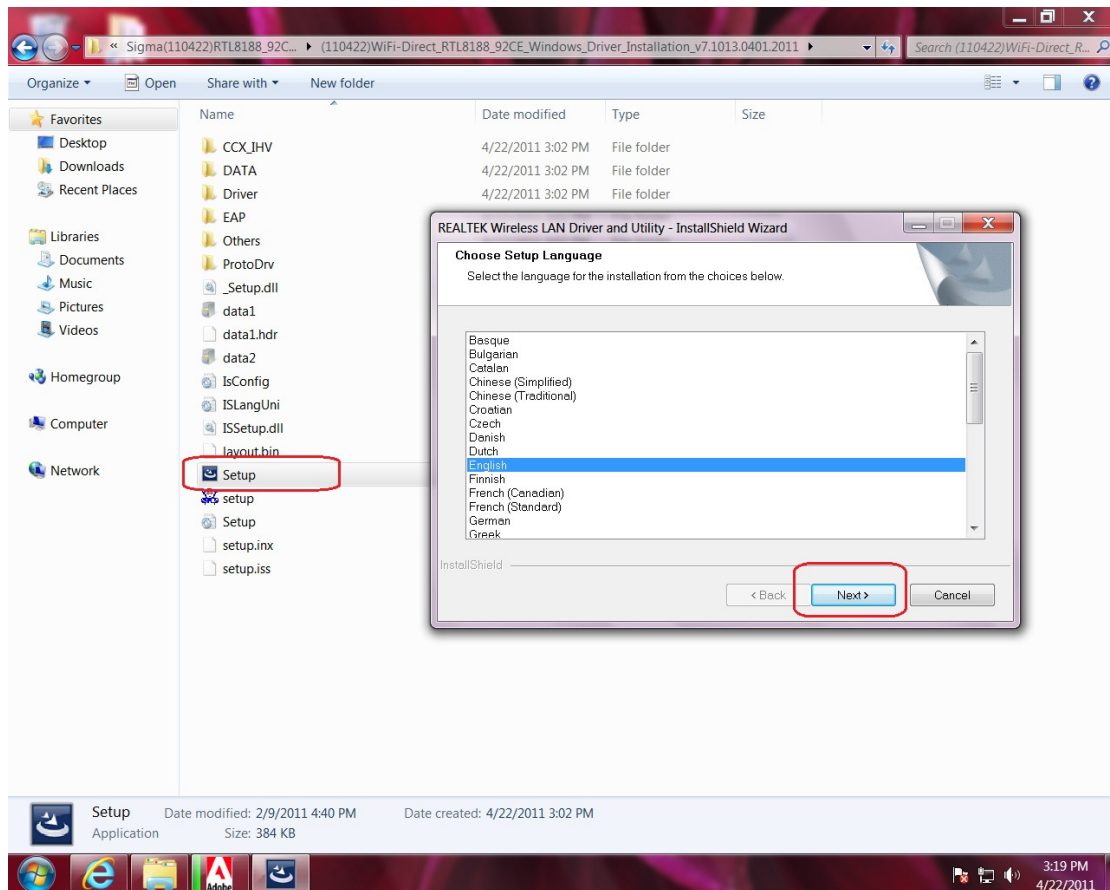
Figure 3

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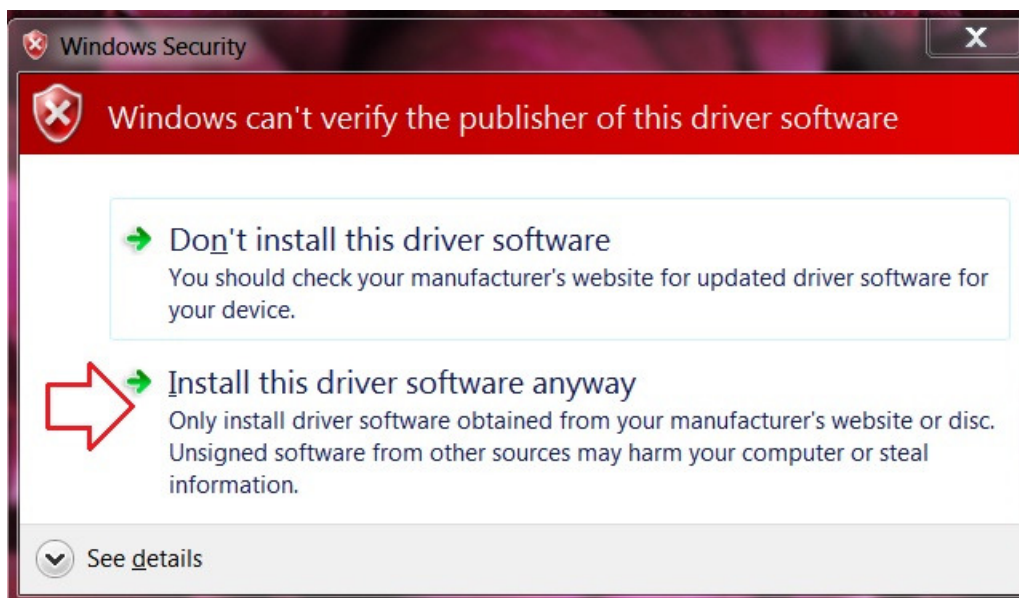

Figure 4

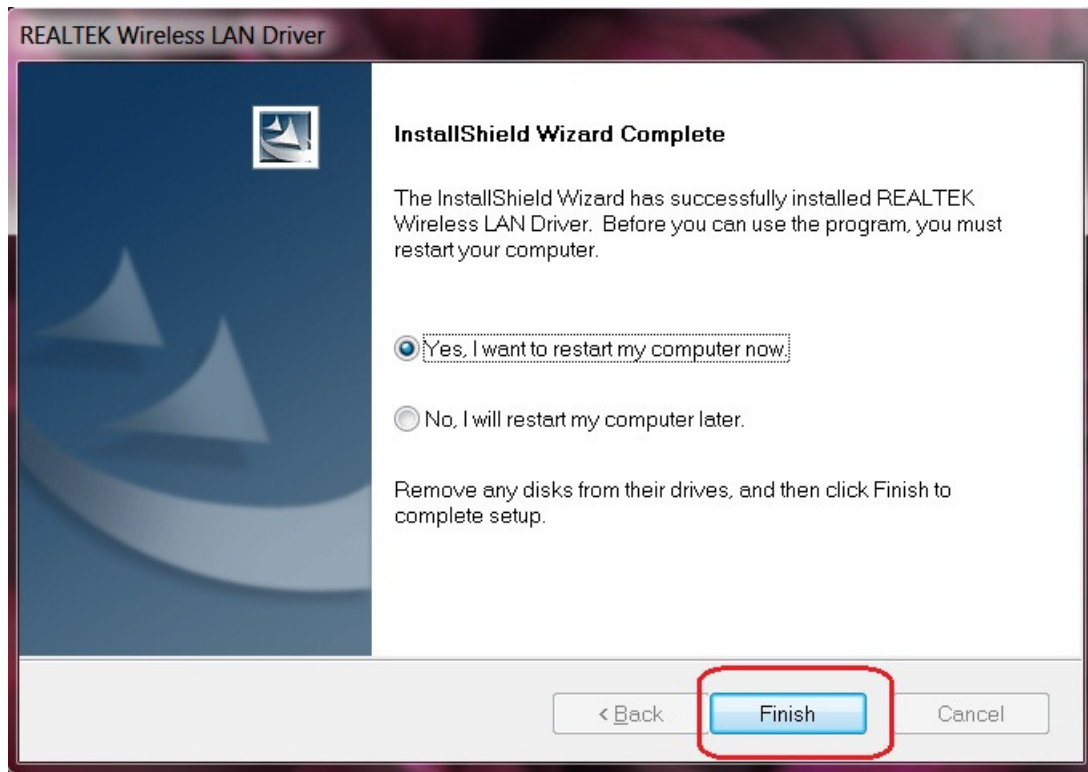After installation, you may be asked to reboot your system.

Figure 5

3. Install Realtek Sigma CLIs

Go to the folder "**P2pCLIs**" and execute "install.bat." After script finishes reboot the system.

After rebooting the system, one command line similar to what is shown in Figure xx should appear indicating installation is successful.
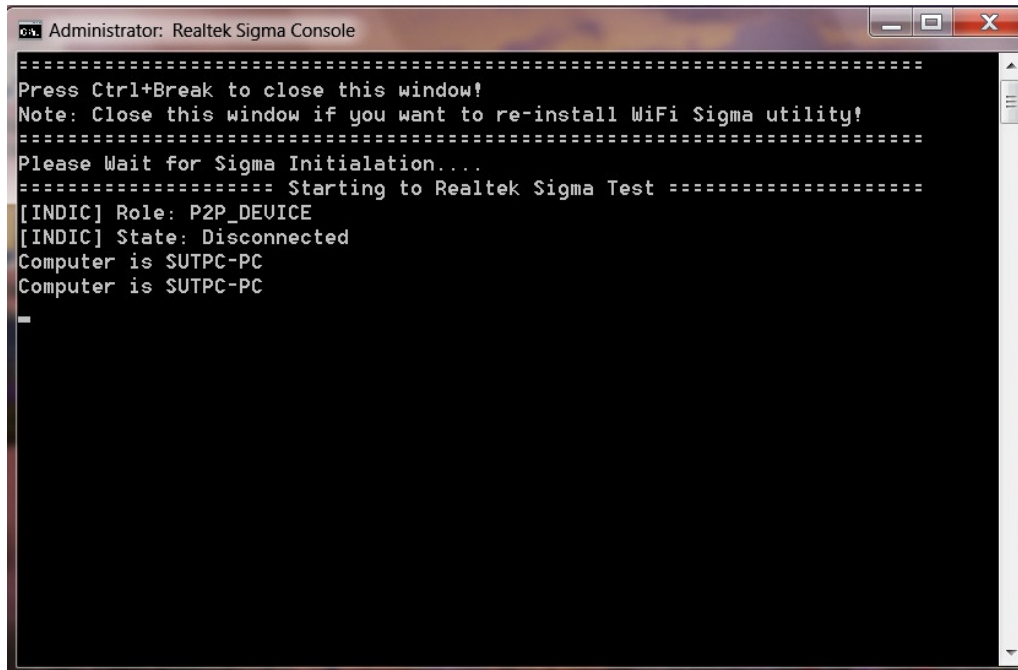
Figure 6

At this point, you have completed enabling Realtek's WiFi-Direct 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.
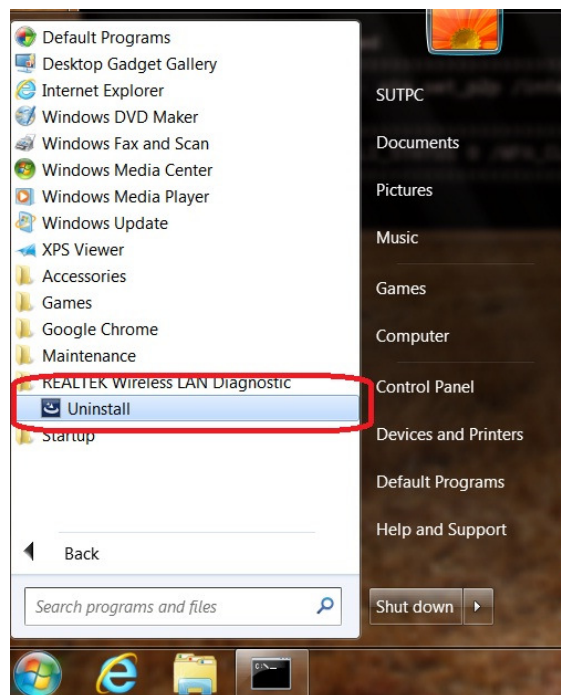
Figure 7