

Windows Internet Connection Sharing (ICS) Packet Captures of iPhone Traffic

Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Background Information](#)

[How to packet capture iPhone's traffic with Windows ICS](#)

[Related Information](#)

Introduction

This document describes how to conduct a packet capture of iPhone traffic with Windows Internet Connection Sharing (ICS).

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on these software and hardware versions:

- iPhone 4/4S/5
- Windows 7

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

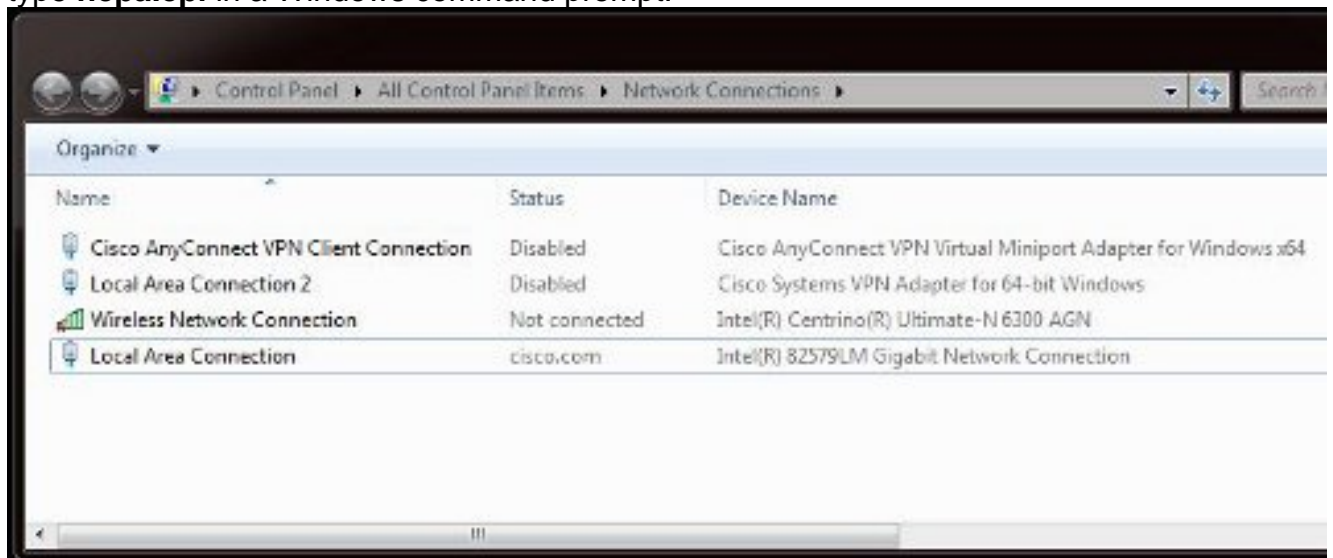
Background Information

This process requires that you share a Wired network connection with an iPhone or any other Wi-Fi phone (called iPhone in this document for simplicity). All the iPhone's traffic is diverted through a PC. This process is extremely useful when you need to troubleshoot the iPhone's traffic (Cisco Jabber for iPhone, Android).

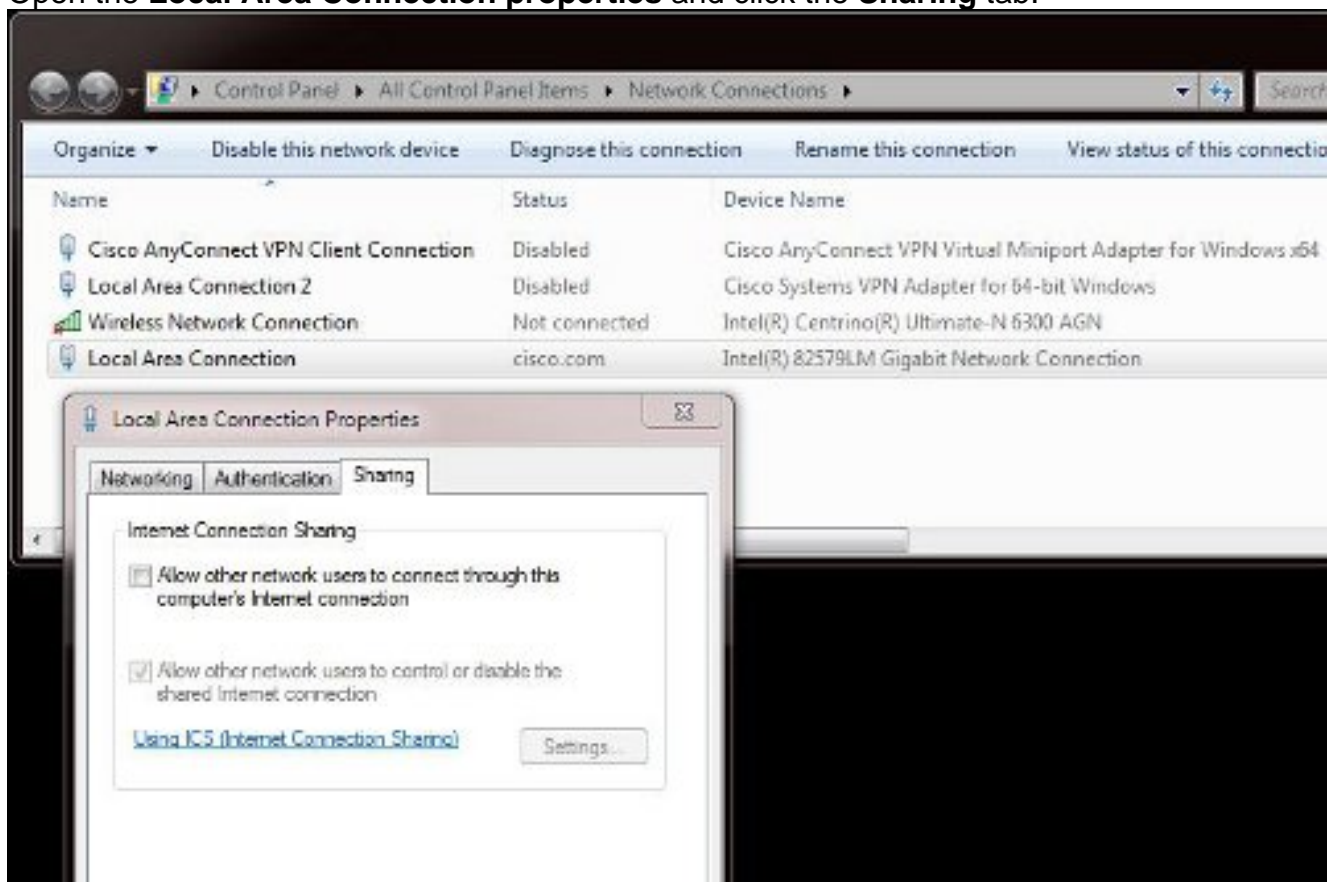
How to packet capture iPhone's traffic with Windows ICS

1. Open a network connections window. You can open it from the Control Panel, or you can

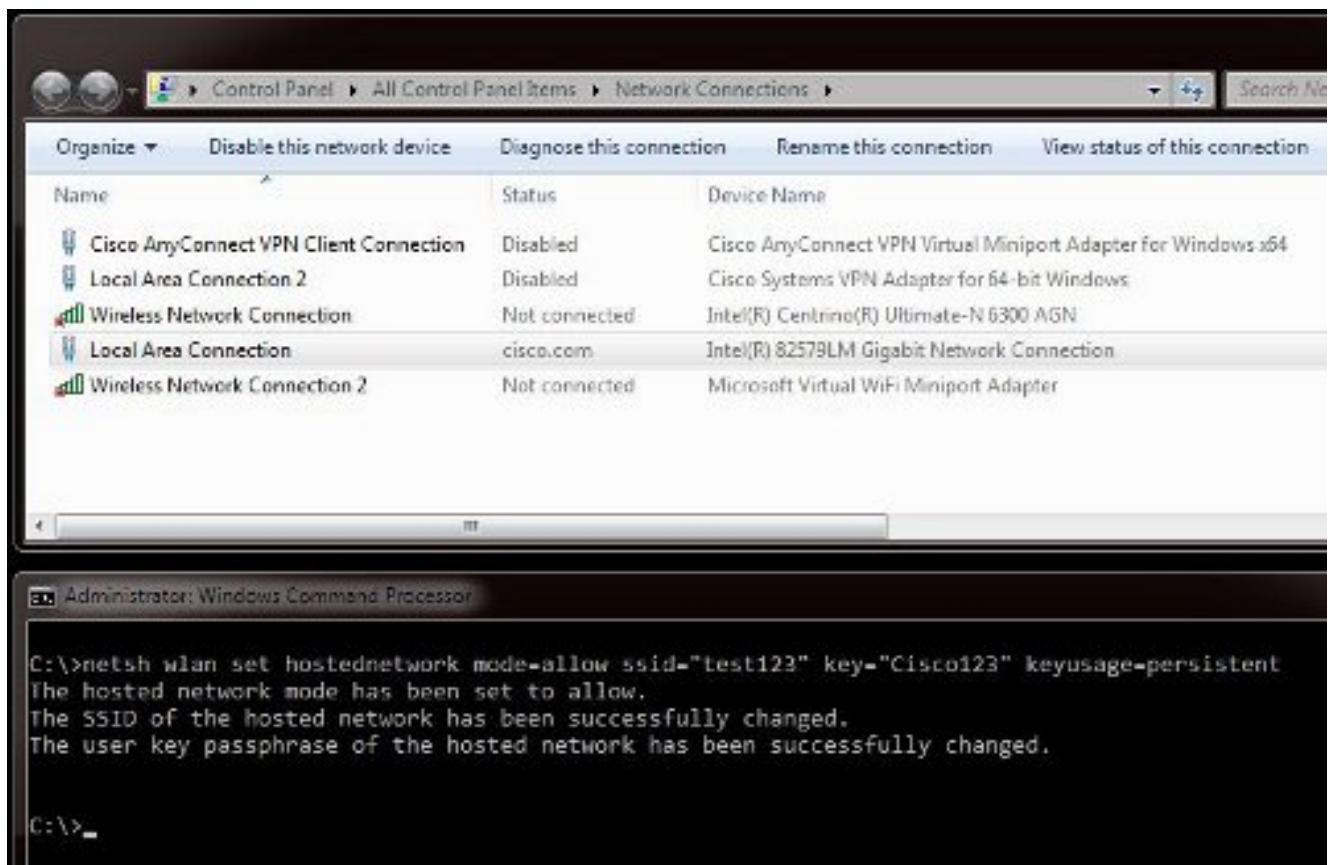
type **ncpa.cpl** in a Windows command prompt.



2. Open the **Local Area Connection properties** and click the **Sharing** tab.

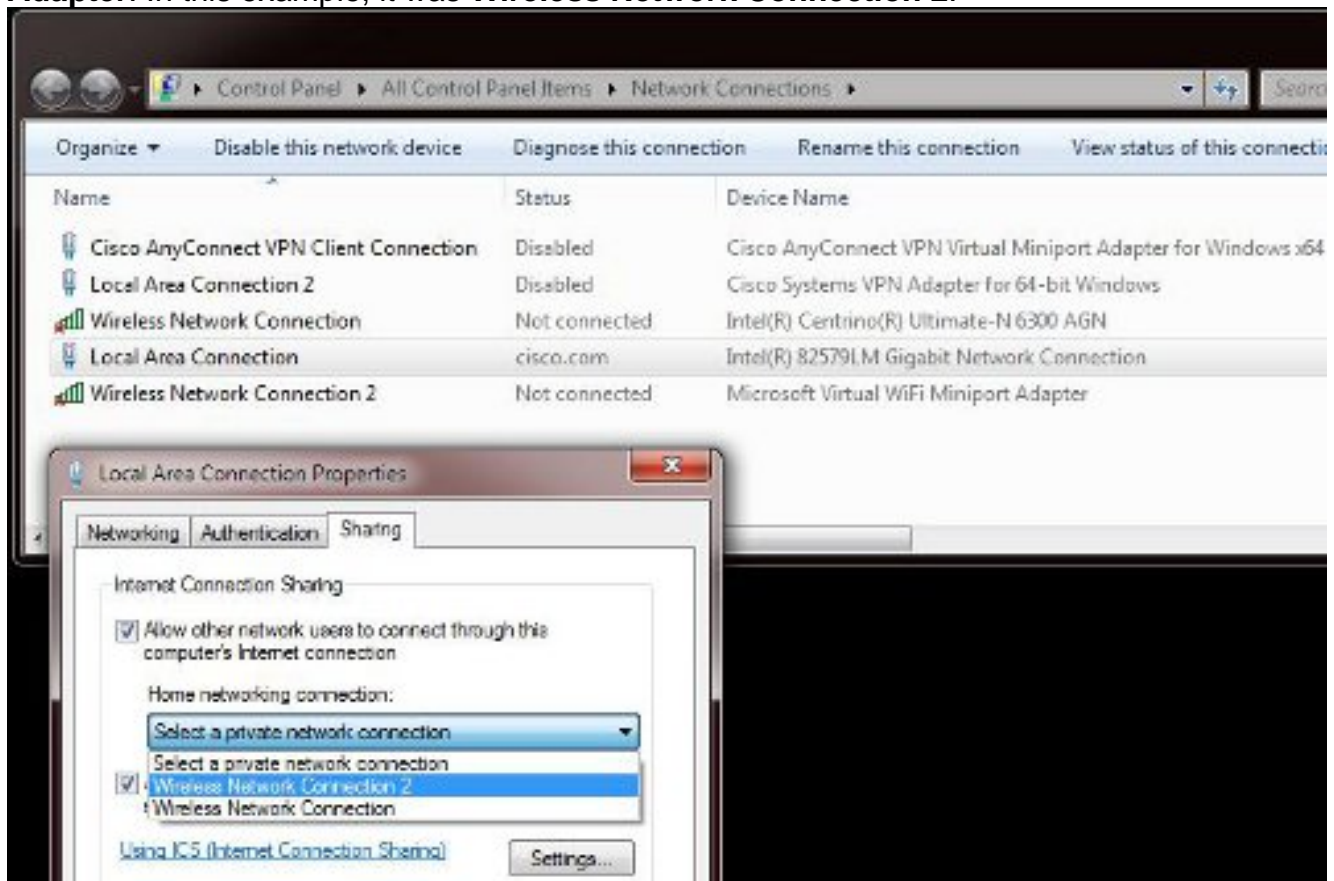


3. Open a Windows Command prompt (you may need to run the command prompt with Administrative privileges). Then, enter this command:



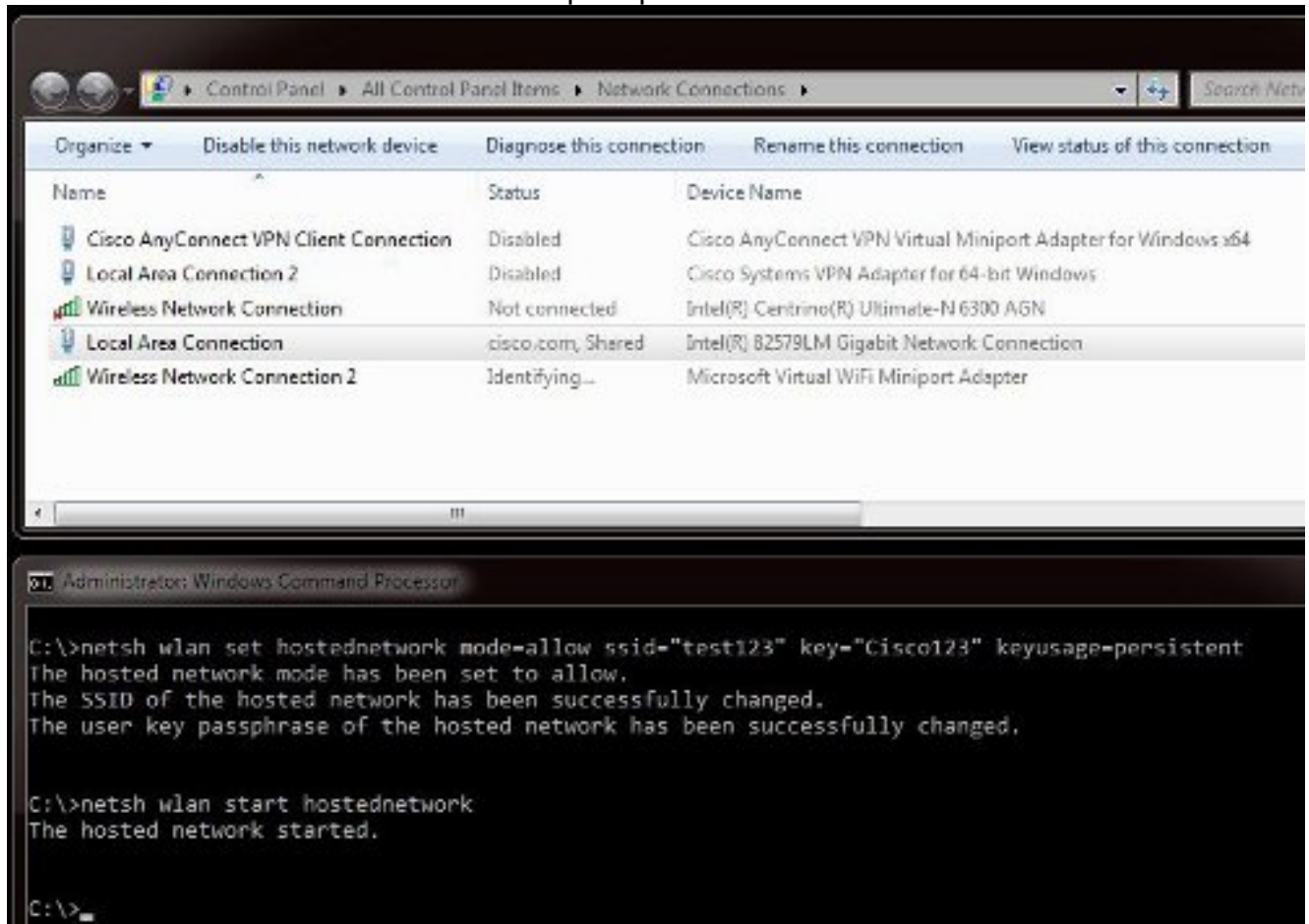
Note: You choose the Service Set Identifier (SSID) and key. Once you enter the command, you will see a new network adapter popup called the Microsoft Virtual Wi-Fi Miniport Adapter. This network adapter acts as the Wi-Fi access point for the iPhone's Wi-Fi.

4. Open the **Local Area Connection properties** and click the **Sharing** tab. Check the **Allow other network to connect through this computer's internet connection** check box and then choose the appropriate wireless network connection for the **Microsoft Virtual Miniport Adapter**. In this example, it was **Wireless Network Connection 2**.

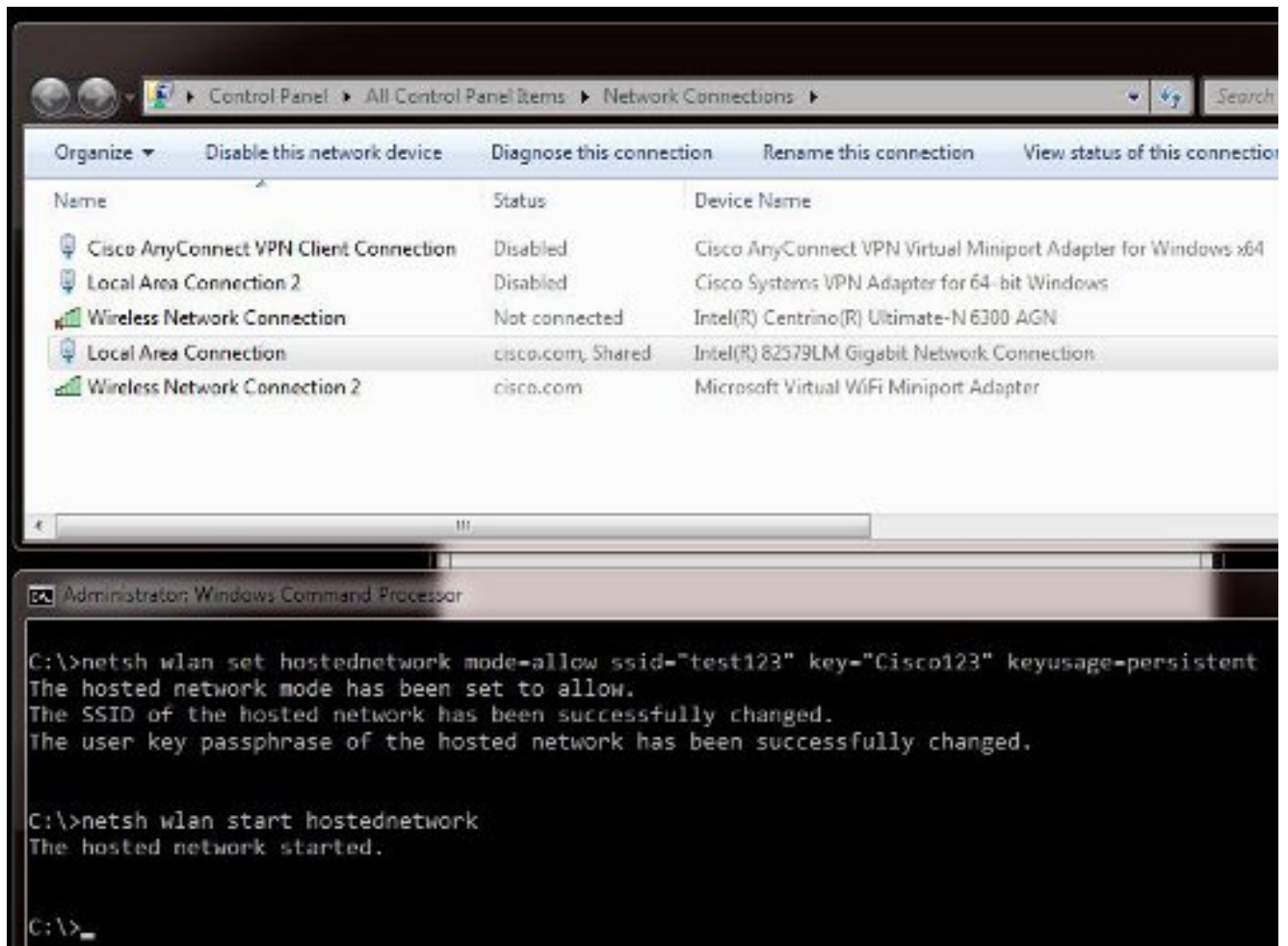


Tip: It may help to ensure that your main **Wireless Network Connection** is in a **Not connected** state before you create the Microsoft Virtual Wi-Fi Miniport adapter. If it is in a connected state, right-click the connection and choose **Connect/Disconnect** to move it to the **Not connected** state.

5. Enter this command from the command prompt.



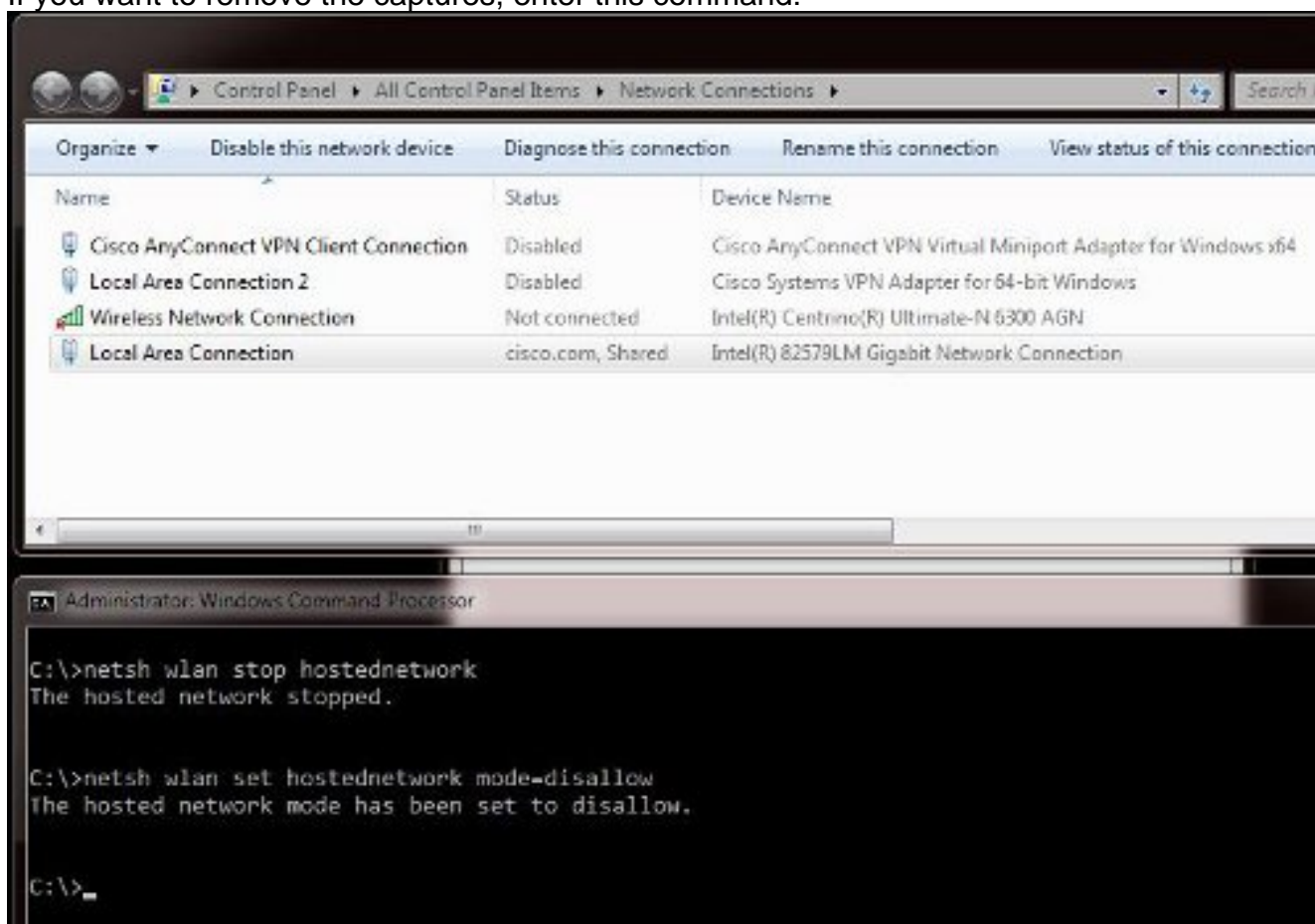
6. After you enter the command, the **Wireless Network Connection 2** status displays as **cisco.com**



7. Now, open your iPhone and connect to the SSID. In this example, the SSID is **test123**. If the SSID does not appear, type it.



8. Now, open Wireshark on your PC in order to see your iPhone traffic.
9. If you want to remove the captures, enter this command:



10. Then, open **Local Area Connection properties** and click the **Sharing** tab. Uncheck the **Allow other network to connect through this computer's internet connection** box.

Tip: If this process does not work, enter **netsh wlan stop hostednetwork** followed by **netsh wlan start hostednetwork**.

Related Information

- [MSDN Article: About the Wireless Hosted Network](#)
- [Technical Support & Documentation - Cisco Systems](#)