

BCM1000-BTW Spy Lite User Manual

REVISION HISTORY

Revision	Date	Change Description
1000-BTW-UM500-R	01/27/05	Initial release.

Broadcom Corporation P.O. Box 57013 16215 Alton Parkway Irvine, CA 92619-7013

© 2005 by Broadcom Corporation All rights reserved Printed in the U.S.A.

Broadcom[®], the pulse logo, and WIDCOMM[®] are trademarks of Broadcom Corporation and/or its subsidiaries in the United States and certain other countries. Bluetooth[®] is a trademark of the Bluetooth SIG. All other trademarks mentioned are the property of their respective owners.

Confidential and Proprietary Information: This document and the software are proprietary properties of Broadcom Corporation. This software package may only be used in accordance with the Broadcom Corporation license agreement.

TABLE OF CONTENTS

Section 1: Introduction		
Section 2: Running BCM1000-BTW Spy Lite	2	
Copy The Program	2	
Activate BCM1000-BTW Spy Lite	2	
BCM1000-BTW Spy Lite User Interface	3	
File > Exit	3	
Edit > Find in Trace	3	
Tools Menu	4	
Tools > Format	4	
Tools > File Logging Options	6	
Tools > Set Protocol Trace		
Help > About	<u>C</u>	
What Do the Trace Messages Mean?	ç	

01/27/05

Section 1: Introduction

BCM1000-BTW Spy Lite is an addition to Broadcom Corporation's WIDCOMM[®] BCM1000-BTW software that technical support may direct you to use. The application traces BCM1000-BTW protocol layer and profile messages when connected to a Bluetooth[®]-enabled device using Bluetooth Specification 1.2 series commands.

Some knowledge of the sequence of Bluetooth events is necessary to understand the information that is displayed. Data throughput analysis and data integrity check-functions are incorporated into the displayed results .

Section 2: Running BCM1000-BTW Spy

COPY THE PROGRAM

The BCM1000-BTW Spy Lite utility is included on your Bluetooth for Windows installation media. Locate the file named Spylite.exe on your installation media and copy it to your hard disk.

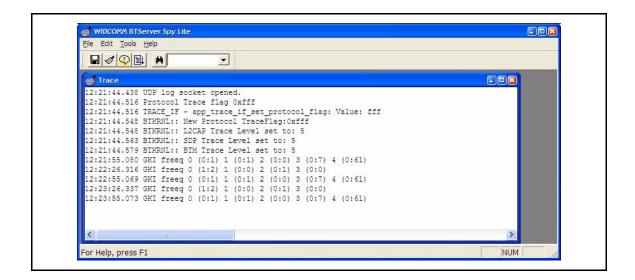
The first screen that displays is shown below:



Once you've completed the logoff and logon procedure you can proceed to the next step.

ACTIVATE BCM1000-BTW SPY LITE

To run BCM1000-BTW Spy Lite, double-click the Spylite.exe icon on your desktop or laptop computer. You will see a window similar to the following:

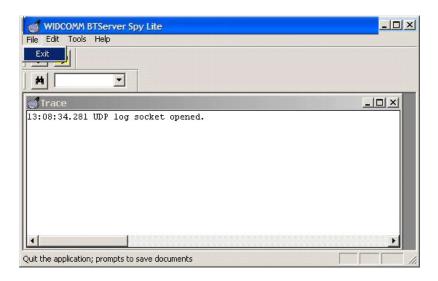


BCM1000-BTW Spy Lite User Interface

The options that are available to the BCM1000-BTW Spy Lite user are documented below.

FILE > EXIT

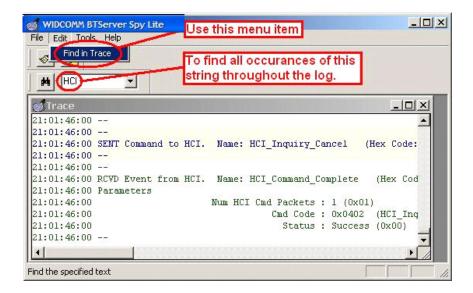
To exit the program, select **File** in the main menu, and then select **Exit**.



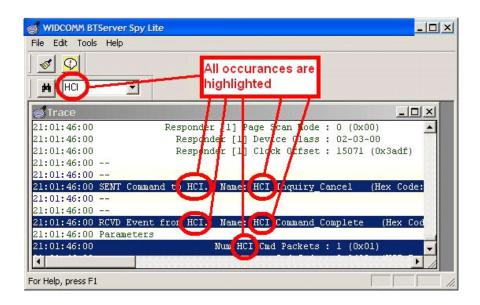
EDIT > FIND IN TRACE

To find and highlight all occurrences of a given text string throughout the log file, do the following:

1 Type the text string in the location shown below. Then select **Edit** in the main menu and select **Find in Trace**.



View all highlighted text.

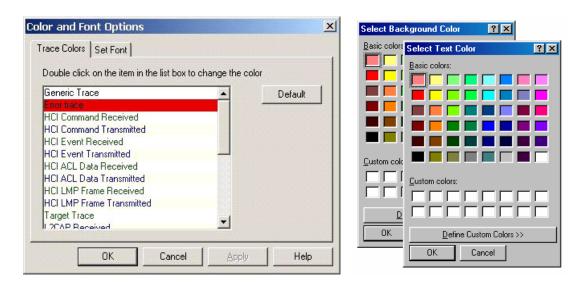


TOOLS MENU

Tools > Format

To control the way that the log data is displayed, do the following:

- Select Tools in the main menu, and then select Format. The Color and Font Options window appears. It has two tabs: Trace Colors and Set Font.
- Click the Trace Colors tab to change the text and background colors of the various log messages.



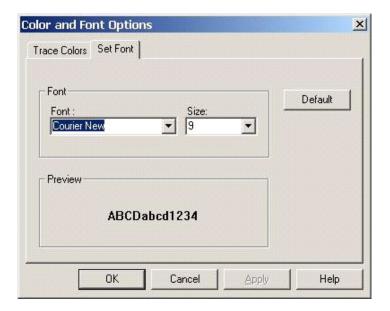
Double-click an item in the Trace Colors list to change its color properties. The Select Background Color window will appear. Select a background color from it and click OK. A second window, the Select Text Color window will then appear. Select a text color from it and click **OK**.

The **Default** button on the **Trace Colors** tab will reset the values to their original settings.



Note: The **Select Text Color** window appears in exactly the same location as the **Select Background Color** window. The only way to tell them apart is to read the title bar of the window.

4 Click the Set Font tab In the Color and Font Options window to change the font type and font size of the log data. Select the font and size and size, and then click OK.



The **Default** button on the **Set Font** tab will reset the values to their original settings.

BCM1000-BTW User Manual

01/27/05

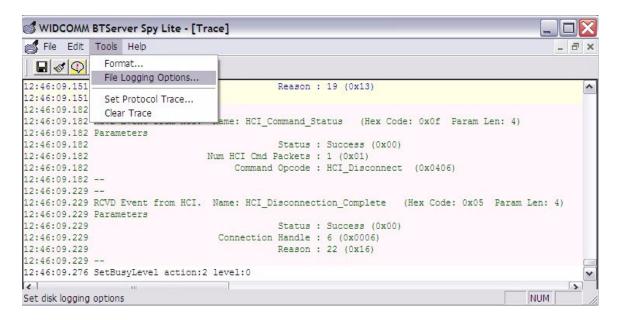
Tools > File Logging Options



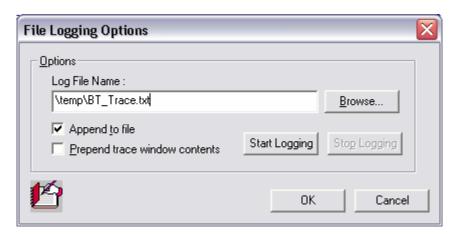
Note: To capture the displayed log traces, select the Prepend Trace Window Content checkbox in the File Logging Options window.

To capture the trace in the BCM1000-BTW Spy Lite window to a file, follow the steps below:

1 Select Tools in the main menu, and then select File Logging Options.

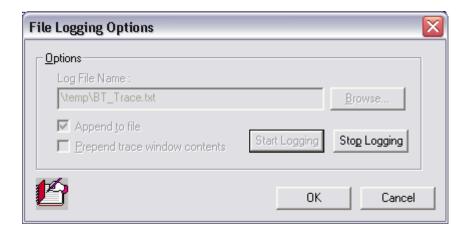


2 In the Log File Name field, enter the path and name of the trace file.



3 Click the **Start Logging** button to begin capturing the log to a file.

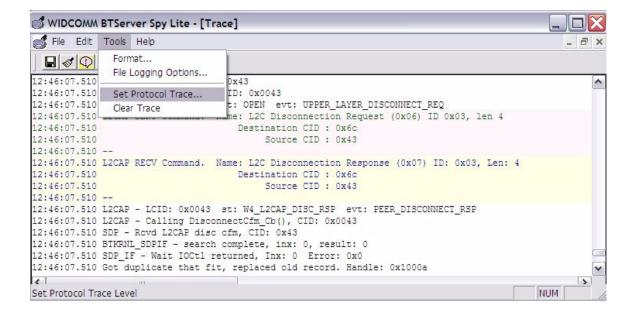
4 Click the Stop Logging button when you are finished capturing the log.



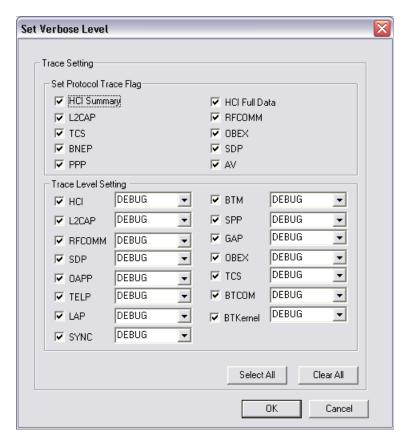
Tools > Set Protocol Trace

To specify the protocols to be traced, follow the steps below:

1 Select **Tools** in the main menu, and then select **Set Protocol Trace**.



Select one or more of the Set Protocol Trace Flag options to specify the protocols to be traced.



The Set Protocol Trace Flag settings control the type of trace messages to display. If a protocol is selected, the information for that protocol will be traced.

Use the Trace Level Setting options to select a level of information for each of the available debug items, as listed below. Click **OK** when the settings are correct.

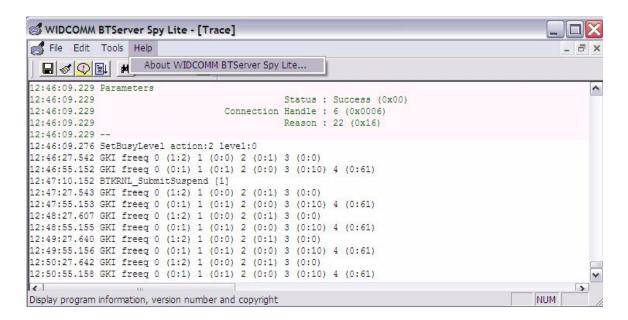
Each type of message has an associated menu that allows you to select from five options. These options, from least to most verbose, are:

- ERROR—displays only error messages.
- **WARNING**—displays warnings and error messages.
- API—displays API-related information, warnings, and error messages.
- **EVENT**—displays event and API-related information, warnings, and error messages.
- **DEBUG**—displays all messages (this is the default option).

01/27/05

HELP > ABOUT

To view the version number of the BCM1000-BTW Spy Lite software, select **Help** in the main menu, and then select **About Widcomm BTServerSpy Spy Lite**.



WHAT DO THE TRACE MESSAGES MEAN?

Interpreting the contents of the BCM1000-BTW Spy Lite log requires an in-depth knowledge of the Bluetooth protocol and is beyond the scope of this document. The Bluetooth specification is publicly available and can be obtained at www.bluetooth.com.

01/27/05

Broadcom Corporation

16215 Alton Parkway P.O. Box 57013 Irvine, CA 92619-7013 Phone: 949-450-8700 Fax: 949-450-8710

Broadcom Corporation reserves the right to make changes without further notice to any products or data herein to improve reliability, function, or design.

Information furnished by Broadcom Corporation is believed to be accurate and reliable. However, Broadcom Corporation
does not assume any liability arising out of the application or use of this information, nor the application or use of any product or
circuit described herein, neither does it convey any license under its patent rights nor the rights of others.