



WiLink™ WLAN gLogger Tool

This user's guide describes how to use the Microsoft[®] Windows[®]-based WiLink 6/7/8 WLAN gLogger tool, a software application that records messages from the WiLink WLAN firmware and develops, debugs, and monitors the WLAN IP.

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TEXAS INSTRUMENTS

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Requirements

1 Requirements

1.1 System Requirements

The WLAN gLogger tool requires the following hardware and software:

- PC running Pentium[®] II (minimum requirements)
- Operating system: Windows 2000, Windows XP, Windows 7
- Access to WL_UART_DBG pin

Debug and calibration tools for WLAN and *Bluetooth*[®] require four UART ports. The most efficient way to drive these ports to the PC is to use a UART-to-USB converter (not included in the wireless tools package). TI recommends using the <u>WL18XXCOM82SDMMC</u> adapter with the TI <u>WL1837MODCOM8I</u> module or the WL1835MODCOM8B module on the COM8 board.

NOTE: Multiple UART-to-USB adapters are available on the market, such as the <u>FTDI Chip™</u> development modules.

1.2 Configuration Requirements

The WLAN gLogger tool for the <u>WiLink 8 WLAN NLCP package release</u> requires the latest versions of the following configuration files:

- <u>WiLink 8 WLAN firmware</u>
- WL128x firmware:
 - wl128x-fw-4-mr.bin
 - wl128x-fw-4-sr.bin
 - wl128x-fw-4-plt.bin
- WL127x firmware:
 - wl127x-fw-4-mr.bin
 - wl127x-fw-4-sr.bin
 - wl127x-fw-4-plt.bin

The installation files are located in the directory named *Wireless Tools* at the installation path configured during installation. By default, the files are located at the following path:

C:\Program Files (x86)\Texas Instruments\Wireless Tools

NOTE: Throughout this document, the directory in which the installation files reside is referred to as the *Installation directory*.

2 Installation

The WLAN gLogger tool is part of the TI wireless tools package release. When the wireless tools package is installed, the gLogger icon is created in the Texas Instrument\Wireless Tools folder at Start \rightarrow Programs and on the desktop (see Figure 1).



elloger

Figure 1. gLogger Icon

To start the WLAN gLogger tool, double-click the gLogger icon. The software initializes and displays the gLogger user interface window (see Figure 2).



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| stre | am.csv | | | | | | | | | |
|---------|--------|-------|------------------------|--------------|-----------------|------------------------------|-------|--------------------------|--|---------|
| Line | Type | Level | Time | Firmware TSI | TSF Delta [uS] | File Name | Bin | Function Name | Message | |
| 4 | 0 | 0 | 2015-07-01 20:26:30.6 | 13 | | | | | Syncing: 2 of 8 valid packets received | |
| 5 | 0 | 0 | 2015-07-01 20:26:30.6 | 14 | | | | | Syncing: 3 of 8 valid packets received | |
| 5 | 0 | 0 | 2015-07-01 20:26:30.6 | 14 | | | | | Syncing: 4 of 8 valid packets received | |
| | 0 | 0 | 2015-07-01 20:26:30.6 | 16 | | | | | Syncing: 5 of 8 valid packets received | |
| | 0 | 0 | 2015-07-01 20:26:30.6 | 16 | | | | | Syncing: 6 of 8 valid packets received | |
| | 0 | 0 | 2015-07-01 20:26:30.6 | 16 | | | | | Syncing: 7 of 8 valid packets received | |
| .0 | 0 | 0 | 2015-07-01 20:26:30.6 | 17 | | | | | Syncing: 8 of 8 valid packets received | |
| 1 | 0 | 0 | 2015-07-01 20:26:30.6 | 17 | | | | | Synced. | |
| .2 | 1 | 0 | 2015-07-01 20:26:30.6 | 13 0 | 0 | 0:0 | 1 | 0 | FU keep alive | |
| | | | 2015-07-01 20:26:30.6 | 14 0 | | thermal_sensor.c:895 | | ThermalSensor_FsmInit | Thermal Sensor is Enabled, isMinoDevice=1 | |
| 4 | 1 | 0 | 2015-07-01 20:26:30.6 | 14 0 | 0 | thermal sensor.c:958 | 1 | Thermal Sensor_FsmInit | fs_val=2 | |
| .5 | 1 | 0 | 2015-07-01 20:26:30.6 | 14 0 | 0 | thermal_sensor.c:971 | 1 | Thermal Sensor FsmInit | thrLowDefault=80, thrHighDefault=121, thr_high_max=140 | |
| .6 | 1 | 0 | 2015-07-01 20:26:30.6 | 16 0 | 0 | thermal_sensor.c:200 | 1 | Thermal Sensor_SetThresh | Setting threshold LOW to 80 | |
| .7 | 1 | 0 | 2015-07-01 20:26:30.6 | 16 0 | 0 | thermal_sensor.c:221 | 1 | Thermal Sensor_SetThresh | Setting threshold HIGH to 121 | |
| 18 | 1 | 0 | 2015-07-01 20:26:30.6 | | 0 | thermal sensor.c:981 | 1 | Thermal Sensor FsmInit | Alpha factor=80/100 , fsm_enabled_delay =320 | |
| - | | | 10015 08 01 00 05 00 s | 10.0 | 10 11 | | | - · · · · · · | | |
| | | | | | | | | | | |
| filter: | therma | el 🛛 | | Search 📃 C | ase sensitive 📃 | Regex 📝 Filter tail 📝 Sync 🏾 | Show | advanced | | |
| Line | Type | Level | Time | Firmware TSP | TSF Delta [uS] | File Name Bin | Funct | on Name | Message | Packet |
| | | | | | | thernal_sensor.c:895 1 | Therm | Sensor_FsmInit | Thernal Sensor is Enabled, isMimoDevice-1 | |
| 4 | 1 | 0 | 2015-07-01 20:26:30.6 | 14 0 | 0 | thernal_sensor.c:958 1 | Therm | lSensor_FsmInit | fs_val=2 | 800013 |
| 5 | 1 | 0 | 2015-07-01 20:26:30.6 | 14 0 | 0 | thernal_sensor.c:971 1 | Therm | Sensor_FsmInit | thrLowDefault=80, thrHighDefault=121, thr_high_max=140 | 800064 |
| .6 | 1 | 0 | 2015-07-01 20:26:30.6 | 16 0 | 0 | thernal_sensor.c:200 1 | Therm | lSensor_SetThresholdLow | Setting threshold LOW to 80 | 800061 |
| 7 | 1 | 0 | 2015-07-01 20:26:30.6 | 16 0 | 0 | thernal_sensor.c:221 1 | Therm | Sensor_SetThresholdHig | h Setting threshold HIGH to 121 | 80007£ |
| 8 | 1 | 0 | 2015-07-01 20:26:30.6 | 17 0 | 0 | thernal_sensor.c:981 1 | Therm | Sensor_FsmInit | Alpha factor=80/100 , fsm_enabled_delay =320 | 80048f |
| 9 | 1 | 0 | 2015-07-01 20:26:30.6 | 17 0 | 0 | thernal sensor.c:995 1 | Therm | Sensor FsmInit | Band=0, thr low=80, thr high=121 | 8000bf2 |

Figure 2. WLAN gLogger User Interface Window

3 Configuring WLAN gLogger for UART Mode

To configure the gLogger tool for UART mode, perform the following steps:

1. From the toolbar, open the Options menu and select Settings. The Settings window displays (see Figure 3).

| erver | View setting | s Highlight | Persistence | Memory/C | PU Create | ILI N | lemory Ov | erview | | | |
|-------|---------------|--------------|--------------------------|-----------|------------|---------|-----------|-----------|------------|--------|--|
| | | | | Legacy | | gLog | ger | | | | |
| Serve | Configuration | n Params - W | LAN | | | | | | | | |
| 0 | Use Serial | | | | | | | | | | |
| | COM Port | COM9 | - | 2 | Baudrate (| 300000 | 0 | - | | | |
| | Data file(HE | X) | | | | | | | | | |
| | | | | | | | | | | | |
| s | tream Path | .Vogs | | | | | | | | | |
| - | | - | Users\GuyM\ | FW\w18xx+ | fw-4.bin | | | | | | |
| В | in File | Z:\Firmware\ | Users\GuyM\ AN\WLAN\W | | | Version | Tree\8.9 | .0.0.55 b | ug fixes\n | elease | |

Figure 3. Configuring the gLogger for UART Mode

- 2. Click to highlight the gLogger button.
- 3. In the Server Configuration Params WLAN area, click the Use Serial button and select the correct value from the COM Port menu.

NOTE: The UART logger COM port is usually the last COM port created.

- 4. Select the correct baud rate from the Baudrate menu:
 - WL127x and WL128x: Baud rate is 921600
 - WL18xx: Baud rate is 3,000,000 (default)
- 5. In the Bin File field, browse to the location of the firmware bin file that is running the target device and select the path. The bin file contains all debug, strings, asserts, and other information that the gLogger requires to parse the logs correctly.



NOTE: The selected bin file must be identical to the bin file running on the target device.

6. The Max File Size (MB) field is set to 25MB by default. This parameter limits the maximum size of a log file. When the maximum limit is reached, a new log file is created.

4 Configuring WLAN gLogger for SDIO Mode

To configure the gLogger tool for SDIO mode, perform the following steps:

- 1. Configure your platform to run with gLogger over SDIO as follows:
 - (a) Update the wlconf file on your platform to enable FW logger over SDIO.
 - Static: In the wlconf file, change the Logger output to SDIO as follows:
 - ./wlconf -i wlconf.bin file -o wlconf.bin file -s core.fwlog.output = 2
 - Dynamic: use the debugfs to switch from UART to SDIO (and SDIO to UART).

NOTE: To enable dynamic operation, the gLogger must be enabled with UART/SDIO (core.fwlog.output = 1 or core.fwlog.output = 2).

UART configuration:

echo 1 > /sys/kernel/debug/ieee80211/phy0/wlcore/fw_logger

SDIO configuration:

echo 2 > /sys/kernel/debug/ieee80211/phy0/wlcore/fw_logger

(b) Run the wl_logproxy application as follows:

```
./wl_logproxy 1555
```

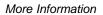
/sys/devices/ocp.3/47810000.mmc/mmc_host/mmc0/mmc0:0001/mmc0:0001:2/wl18xx.0.auto/fwlog /usr/share/wl18xx/fwlogs/ 10000000 &

where:

- Blue text is the location of the system file (the example shows the file for the AM35x device).
- Green text is the location of the saved logs (the folder is not created by default).
- Orange text is the maximum size of the logger file in (TI recommends a file size of less than 1,000,000 bytes).

NOTE:

- Each log is marked with a timestamp denoting when the log is last saved.
- The only log without a timestamp is the current log to which the application writes.
- 2. From the toolbar, open the Options menu and select Settings. The Settings window displays (see Figure 4).





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| erver | View setting | ıs Highlight | Persistence | Memory | /CPU Cr | eate ILI | Memory C | Iverview | | | |
|-------------------|-------------------------------------|-----------------------|-------------|----------|------------|-----------|-----------------------|-------------|----------------------|-------|--|
| Senver | Configuratio | n Params - WL | AN | Legacy | | gL | ogger | | | | |
| | Use Serial | | | | | | | | | | |
| - | | СОМЭ | | 2 | Baudrate | 3000 | 100 | - | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 0 | | Abl 1-1-70 0) | | | | | | | | | |
| | Use SDIO (| | | | | | | | | | |
| | Use SDIO (Data file(HI | | | | | | | | | | |
| | | | | | | | | | | | |
| | Data file(HI | | | | | | | | | | |
| Str | Data file(HI | .Nogs | | | | | | | | | |
| Str | Data file(HI | >>) | sers\GuyM\ | FW\wl18c | x-fw-4.bin | | | | | | |
| Str | Data file(HI | .Nogs | | | | A9_Versio | n_Tree\8 | 9.0.0.55_bi | ig_fixes∖re | lease | |
| Sti Bir Bir | Data file(HI ream Path n File | Nogs Z:\Firmware\L | N\WLAN\V | | Firmware \ | A9_Versio | n_Tree\8 File Form | | n <u>g f</u> ixes\re | lease | |

Figure 4. Configuring the Logger for SDIO Mode

- 3. Click to highlight the gLogger button.
- 4. In the Server Configuration Params WLAN area, click the Use SDIO (WiLink[™] 8) button and select the log file generated on the platform.
- 5. Load the log file and click OK.

5 More Information

5.1 General

- To start the gLogger, press the Play icon.
- To stop the gLogger, press the Stop icon.
- To view old logs, click the Open Logs Directory icon.
- To load and parse a binary log file, click the Open Raw Log, select the binary log file path, and then select the bin file path.
- To clear the window while the gLogger is connected to the device, press Ctrl+n.

5.2 Searching and Filtering

- Press F4 to display the search tab.
- Search for strings or regular expressions on the open log file (see Figure 5).



More Information

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| stre | am.csv | | | | | | | | | |
|------------|--------|-------|-------------------------|--------------|----------------|--------------------------|-----------|---------------------------------------|--|--------|
| Line | Type | Level | Time | Firmware TSF | TSF Delta (uS) | File Name | Bin | Function Name | Message | |
| 4 | 0 | 0 | 2015-07-01 20:26:30.613 | | | | | | Syncing: 2 of 8 valid packets received | |
| 5 | 0 | 0 | 2015-07-01 20:26:30.614 | | | | | | Syncing: 3 of 8 valid packets received | |
| 6 | 0 | 0 | 2015-07-01 20:26:30.614 | | | | | | Syncing: 4 of 8 valid packets received | |
| 7 | 0 | 0 | 2015-07-01 20:26:30.616 | | | | | | Syncing: 5 of 8 valid packets received | |
| 8 | 0 | 0 | 2015-07-01 20:26:30.616 | | | | | | Syncing: 6 of 8 valid packets received | |
| 9 | 0 | 0 | 2015-07-01 20:26:30.616 | | | | | | Syncing: 7 of 8 valid packets received | |
| 10 | 0 | 0 | 2015-07-01 20:26:30.617 | | | | | | Syncing: 8 of 8 valid packets received | |
| 11 | 0 | 0 | 2015-07-01 20:26:30.617 | | | | | | Synced. | |
| 12 | 1 | 0 | 2015-07-01 20:26:30.613 | 0 | 0 | 0:0 | 1 | 0 | FW keep alive | |
| | | | 2015-07-01 20:26:30.614 | | | thermal_sensor.c:895 | | ThermalSensor_FsmInit | Thermal Sensor is Enabled, isMimoDevice=1 | |
| 14 | 1 | 0 | 2015-07-01 20:26:30.614 | 0 | 0 | thermal_sensor.c:958 | 1 | Thermal Sensor_FsmInit | fs_val=2 | |
| 15 | 1 | 0 | 2015-07-01 20:26:30.614 | 0 | 0 | thermal_sensor.c:971 | 1 | Thermal Sensor_FsmInit | thrLowDefault=80, thrHighDefault=121, thr_high_max=140 | |
| 16 | 1 | 0 | 2015-07-01 20:26:30.616 | 0 | 0 | thermal_sensor.c:200 | 1 | Thermal Sensor_SetThres | h Setting threshold LOW to 80 | |
| 17 | 1 | 0 | 2015-07-01 20:26:30.616 | 0 | 0 | thernal_sensor.c:221 | 1 | Thermal Sensor_SetThres | Setting threshold HIGH to 121 | |
| 18 | 1 | 0 | 2015-07-01 20:26:30.617 | 0 | 0 | thernal sensor.c:981 | 1 | Thermal Sensor_FsmInit | Alpha factor-80/100 , fsm_enabled_delay -320 | |
| 10 | | 1.0 | loore of or or or or or | 1. | | | | | | |
| st filter: | therma | el | ▼ Se | arch 📃 Ca | se sensitive 📃 | Regex 👽 Filtertail 👽 Syn | c Show | advanced | | |
| Line | Туре | Level | Time | Firmware TSF | TSF Delta [uS] | File Name | Bin Funct | ion Name | Message | Packet |
| | | | | | | thermal_sensor.c:895 | Therm | alSensor_FsmInit | Thernal Sensor is Enabled, isHimoDevice-1 | |
| 14 | 1 | 0 | 2015-07-01 20:26:30.614 | 0 | 0 | thermal_sensor.c:958 | Therm | alSensor_FsmInit | fs_val=2 | 800013 |
| 15 | 1 | 0 | 2015-07-01 20:26:30.614 | 0 | 0 | thermal sensor.c:971 | l Therm | alSensor_FsmInit | thrLowDefault=80, thrHighDefault=121, thr high max=140 | 80006d |
| 16 | 1 | 0 | 2015-07-01 20:26:30.616 | 0 | 0 | thermal_sensor.c:200 1 | Therm | <mark>al</mark> Sensor_SetThresholdLo | Ø Setting threshold LOW to 80 | 800061 |
| 17 | 1 | 0 | 2015-07-01 20:26:30.616 | 0 | 0 | thermal_sensor.c:221 1 | Therm | alSensor_SetThresholdHi | gh Setting threshold HIGH to 121 | 80007£ |
| 18 | 1 | 0 | 2015-07-01 20:26:30.617 | 0 | 0 | thermal_sensor.c:981 1 | I Therm | alSensor_FsmInit | Alpha factor=80/100 , fsm_enabled_delay =320 | 80048£ |
| 19 | 1 | 0 | 2015-07-01 20:26:30.617 | | 0 | thermal sensor.c:995 | - | alSensor FsmInit | Band-0, thr low-80, thr high-121 | 8000bf |

Figure 5. Searching and Filtering

• To search multiple strings, check the Regex box and type the requested strings with an OR operator in between as follows: *string1*|*string2*.

5.3 Coloring and Highlighting

To color and highlight strings and expressions, perform the following steps:

- 1. From the toolbar, open the Options menu and select Highlights and Triggers. The Hilighting and action triggers dialog box displays (see Figure 6).
- 2. Add strings or regular expressions that, if matched, will be highlighted or colored.
- 3. Move the selected field up to increase priority. New items are always added to the end of the list and have the lowest priority.

| Groups | |
|--|--|
| [Default] | New Del Copy |
| You can assign groups to file name: | s in the settings. |
| [*] thermal [*] HIGH | Up Down |
| | Add |
| | Delete |
| | Apply |
| | |
| | |
| Line match criteria Search string: HIGH | |
| Search string: | |
| Search string: HIGH | Actions |
| Search string: HIGH Case sensitive RegEx Coloring Foreground color | Don't lit dirty LED |
| Search string: HIGH Case sensitive RegEx Coloring | Don't lit dirty LED |
| Search string: HIGH Case sensitive RegEx Coloring Foreground color Custom Custom Background color | Don't lit dirty LED Set bookmark Text Stop Follow Tail |
| Search string: HIGH Case sensitive RegEx Coloring Foreground color Custom Custom | Don't lit dirty LED Set bookmark Text Stop Follow Tail |
| Search string: HIGH Case sensitive RegEx Coloring Foreground color Custom Custom Background color | Don't lit dirty LED Set bookmark Text Stop Follow Tail |
| Search string: HIGH Case sensitive RegEx Coloring Foreground color Custom Custom Background color Custom Custom | Don't lit dirty LED Set bookmark Stop Follow Tail |

Figure 6. Hilighting and Action Triggers Dialog Box



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More Information

5.4 Bookmarking

Create bookmarks manually by pressing Ctrl+F2, or automatically by setting a rule in the Hilighting and action triggers dialog box.

Figure 7 shows an example of bookmarking on the gLogger user interface window.

| stre | m.csv | | | | | | | | |
|------|--------|-------|--|--------------|----------------|------------------------------|-----|------------------------|--|
| Line | Туре | Level | Time | Firmware TSF | TSF Delta [uS] | File Name | Bin | Function Name | Message |
| 1 | 0 | 0 | 2015-07-01 20:26:14.380 | | | | | | Connected to COM28 successfully |
| 2 | 0 | 0 | 2015-07-01 20:26:30.612 | | | | | | Logger Started. |
| 3 | 0 | 0 | 2015-07-01 20:26:30.613 | | | | | | Syncing: 1 of 8 valid packets received |
| 4 | My cos | nment | 2015-07-01 20:26:30.613 | | | | | | Syncing: 2 of 8 valid packets received |
| 5 | 0 | 0 | 2015-07-01 20:26:30.614 | | | | | | Syncing: 3 of 8 valid packets received |
| 5 | | | 2015-07-01 20:26:30.614 | | | | | | Syncing: 4 of 8 valid packets received |
| 7 | | 0 | 2015-07-01 20:26:30.616 | | | | | | Syncing: 5 of 8 valid packets received |
| 3 | | 0 | 2015-07-01 20:26:30.616 | | | | | | Syncing: 6 of 8 valid packets received |
| 9 | 0 | 0 | 2015-07-01 20:26:30.616 | | | | | | Syncing: 7 of 8 valid packets received |
| .0 | | 0 | 2015-07-01 20:26:30.617 | | | | | | Syncing: 8 of 8 valid packets received |
| .1 | | 0 | 2015-07-01 20:26:30.617 | | | | | | Synced. |
| 12 | 1 | 0 | 2015-07-01 20:26:30.613 | | | 0:0 | 1 | 0 | FW keep alive |
| 13 | Here a | | 2015-07-01 20:26:30.614 | | 0 | thermal_sensor.c:895 | 1 | ThernalSensor_FsmInit | |
| 14 | | | 2015-07-01 20:26:30.614 | | 0 | thermal_sensor.c:958 | 1 | Thermal Sensor_FsmInit | |
| 15 | | | 2015-07-01 20:26:30.614 | | 0 | thermal_sensor.c:971 | 1 | | thrLowDefault=80, thrHighDefault=121, thr_high_max=140 |
| .6 | | | 2015-07-01 20:26:30.616 | | | thermal_sensor.c:200 | 1 | | sh Setting threshold LOW to 80 |
| 17 | | 0 | 2015-07-01 20:26:30.616 | | 0 | thermal_sensor.c:221 | 1 | | sh Setting threshold HIGH to 121 |
| .8 | | | 2015-07-01 20:26:30.617 | | 0 | thermal_sensor.c:981 | 1 | | Alpha factor=80/100 , fsm_enabled_delay =320 |
| .9 | - | 0 | 2015-07-01 20:26:30.617 | | 0 | thermal_sensor.c:995 | 1 | | Band=0, thr_low=80, thr_high=121 |
| :0 | | 0 | 2015-07-01 20:26:30.636 | | | calib_agent.c:145 | 1 | calibAgentInit | Calibration Agent Init Complete PHY calib results pointer 80920d |
| 1 | 1 | 0 | 2015-07-01 20:26:30.636 | v | 0 | links.c:361 | 1 | | s Init the links database |
| 2 | 1 | 0 | 2015-07-01 20:26:30.637 | • | 0 | links.c:1462 | 1 | | t Removing link context, flid 0, frid 0 |
| 23 | 1 | 0 | 2015-07-01 20:26:30.637 | | 0 | links.c:1462 | 1 | | t Removing link context, flid 1, frid 0 |
| 4 | 1 | 0 | 2015-07-01 20:26:30.638 | | 0 | links.c:1462 | 1 | | t Removing link context, flid 2, frid 0 |
| 5 | 1 | 0 | 2015-07-01 20:26:30.638 | • | 0 | links.c:1462 | 1 | | t Removing link context, flid 3, frid 0 |
| 6 | | 0 | 2015-07-01 20:26:30.639 | | 0 | links.c:1462 | 1 | | t Removing link context, flid 4, frid 0 |
| 7 | | 0 | 2015-07-01 20:26:30.639 | | 0 | links.c:1462 | 1 | | t Removing link context, flid 5, frid 0 |
| 28 | - | 0 | 2015-07-01 20:26:30.641 | | 0 | links.c:1462 | 1 | | Removing link context, flid 6, frid 0 |
| 29 | 1 | 0 | 2015-07-01 20:26:30.641 2015-07-01 20:26:30.642 | | | links.c:1462 links.c:1462 | 1 | | t Removing link context, flid 7, frid 0 t Removing link context, flid 8, frid 0 |

Figure 7. Bookmarking on gLogger User Interface Window



Appendix A SWRU435A–September 2015–Revised January 2016

Terms and Abbreviations

Table 1 lists terms and abbreviations.

Table 1. Terms and Abbreviations

| Term | Description |
|--------------|--|
| BD_ADDR | Bluetooth device address |
| BER | Bit error rate |
| BT | Bluetooth |
| HCI | Host controller interface |
| Host/host PC | A PC connected to the device through the serial port |
| LMP | Link manager protocol |
| LQM | Link quality monitor |
| PER | Packet error rate |
| RF | Radio frequency |
| RSSI | Received signal strength indication |
| SW | Software |
| VS | Vendor-specific |

Revision History

| Cł | nanges from Original (September 2015) to A Revision | Pag | е |
|----|---|-----|---|
| • | Added Section 4, Configuring gLogger for SDIO Mode | | 4 |

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