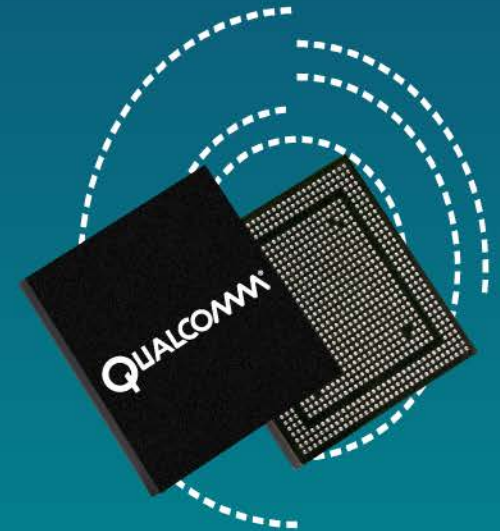


QUALCOMM®
zhangnan@hipad.com



LogKit II Usage

80-NN645-1 A

Confidential and Proprietary – Qualcomm Technologies, Inc.

Confidential and Proprietary – Qualcomm Technologies, Inc.

NO PUBLIC DISCLOSURE PERMITTED: Please report postings of this document on public servers or websites to: DocCtrlAgent@qualcomm.com.

Restricted Distribution: Not to be distributed to anyone who is not an employee of either Qualcomm or its subsidiaries without the express approval of Qualcomm's Configuration Management.

Not to be used, copied, reproduced, or modified in whole or in part, nor its contents revealed in any manner to others without the express written permission of Qualcomm Technologies, Inc.

Qualcomm reserves the right to make changes to the product(s) or information contained herein without notice. No liability is assumed for any damages arising directly or indirectly by their use or application. The information provided in this document is provided on an "as is" basis.

This document contains confidential and proprietary information and must be shredded when discarded.

Qualcomm is a trademark of QUALCOMM Incorporated, registered in the United States and other countries. All QUALCOMM Incorporated trademarks are used with permission. Other product and brand names may be trademarks or registered trademarks of their respective owners.

This technical data may be subject to U.S. and international export, re-export, or transfer ("export") laws. Diversion contrary to U.S. and international law is strictly prohibited.

Qualcomm Technologies, Inc.
5775 Morehouse Drive
San Diego, CA 92121
U.S.A.

© 2014 Qualcomm Technologies, Inc.
All rights reserved.

Revision History

Revision	Date	Description
A	Jun 2014	Initial release

QUALCOMM
zhangnan@hipad.com

Contents

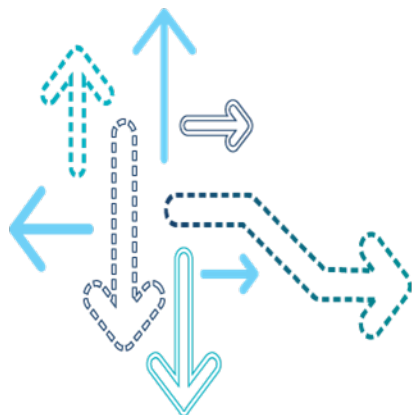
- Objectives
- Usage
- References
- Questions?

QUALCOMM®
zhangnan@hipad.com

Objectives

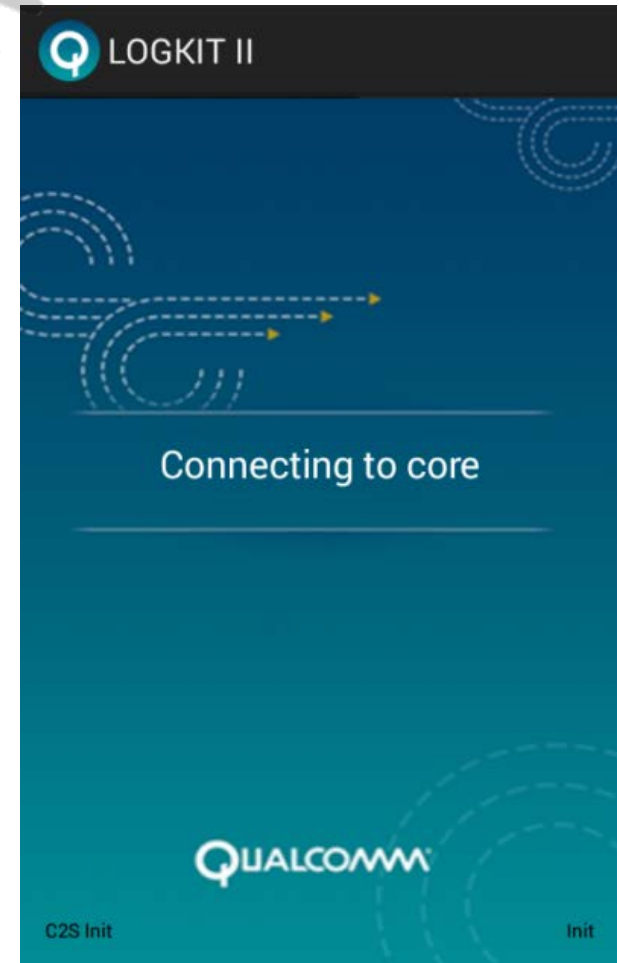
- At the end of this presentation, you will understand basic LogKit II usage, including:
 - Session states
 - Log and event view – How to get log and/or crash files from the device
 - Log profile settings

Usage



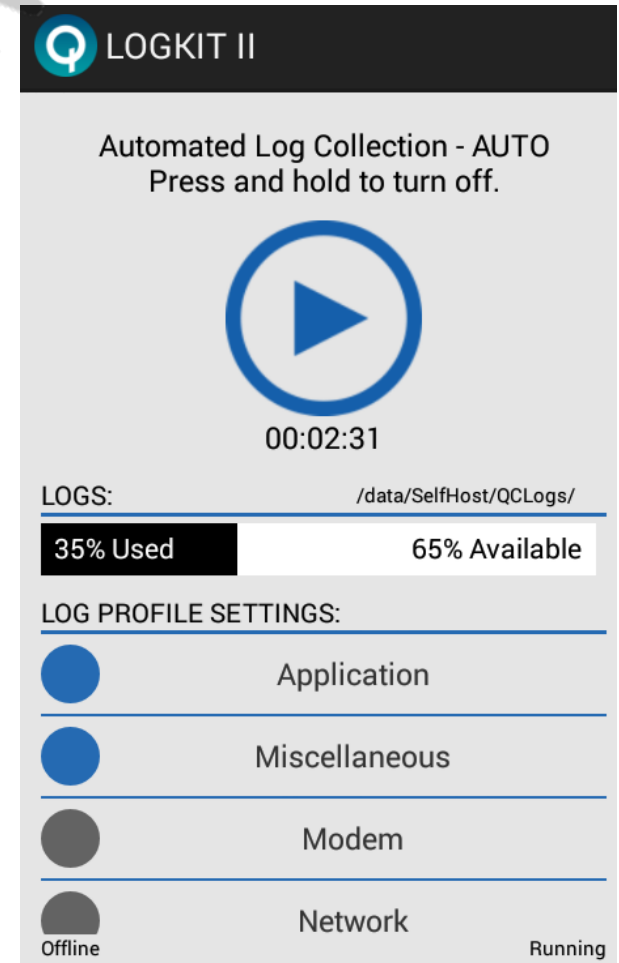
Startup and Basic Display

- Startup progress
 - Shown only during introduction – Main text
- Server status
 - Always visible – Lower left
- Application status
 - Always visible – Lower right



Main Interface

- The LogKit II UI varies depending on the rules provided by QTI.
- Logging Session state
 - Displays the current state.
 - Allows the user to switch to On, Off, or Auto state by pressing the button.
- Logs
 - Displays basic log information.
 - Click this section for more information.
- Log profile settings
 - Displays the main categories and the status of each category.
 - Click each category for more options.



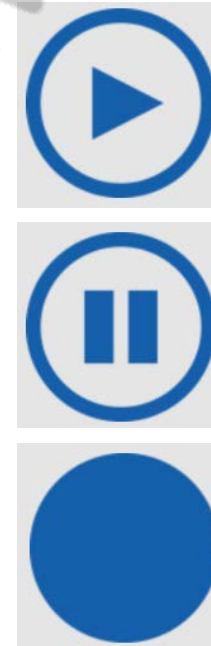
Available Log Session States

- Auto
 - Default state on bootup
 - Monitors crashes
 - Minimal logging so it does not interfere with device performance
- On
 - Monitors crashes
 - Logging all items specified in the Log Profile Settings
- Off
 - Everything is disabled, including crash detection and logging

Note: While a logging session is On, any changes made to the log profile settings will not take effect until the logging session is restarted.

Switching Log Session States

- In Auto state
 - Press button to turn on logging
 - Hold button to turn off logging
- In On state
 - Press button to switch to Auto state
 - Hold button to turn off logging
 - Session duration displayed in the clock
- In Off state
 - Press button to switch to Auto state








Note: All changes made to log profile settings while logging session is On will not take effect until after the session is restarted.

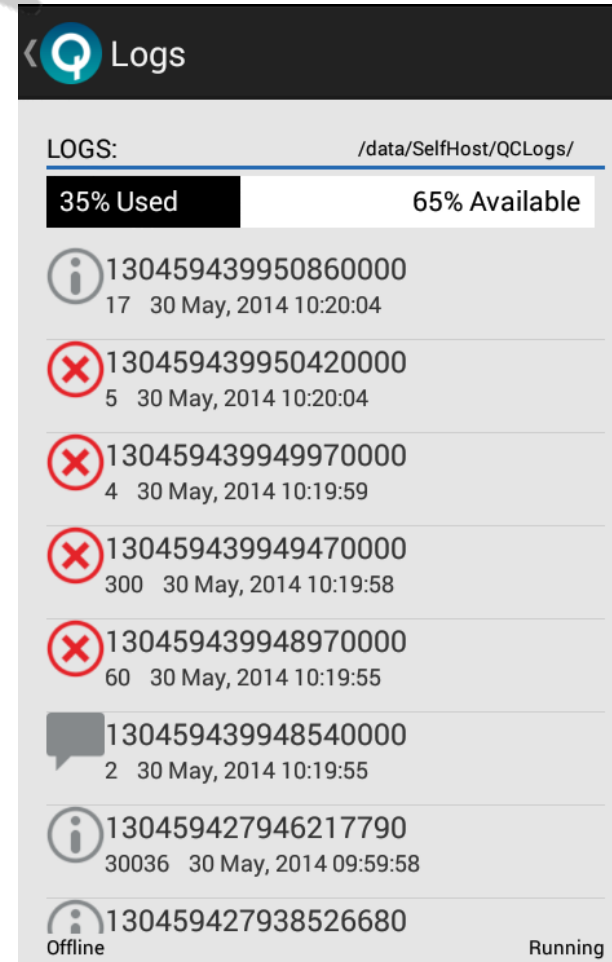
Log View

- Clicking in the Log section on the main UI screen will open a screen with more information about the logs that have been generated.
- Individual events are listed in the following format:

Category Icon	Event ID	
	Rule ID	Timestamp

-  Feedback
-  Problem/Failure
-  Crash
-  Information/Metrics


- Click each event for more information.
- Click  at the top to return to the main screen.




The screenshot shows the 'Logs' screen with a dark header bar containing a back arrow and a 'Q' logo. Below the header, the text 'LOGS:' is followed by the path '/data/SelfHost/QCLogs/'. A progress bar indicates '35% Used' and '65% Available'. The log entries are listed with icons representing their category: a grey speech bubble for 'Feedback', a yellow exclamation mark for 'Problem/Failure', a red 'X' for 'Crash', and a grey 'i' for 'Information/Metrics'. Each entry shows the Event ID, Rule ID, and Timestamp. The status 'Offline' is shown at the bottom left and 'Running' at the bottom right.

Category Icon	Event ID	Rule ID	Timestamp
Information/Metrics	130459439950860000	17	30 May, 2014 10:20:04
Crash	130459439950420000	5	30 May, 2014 10:20:04
Crash	130459439949970000	4	30 May, 2014 10:19:59
Crash	130459439949470000	300	30 May, 2014 10:19:58
Crash	130459439948970000	60	30 May, 2014 10:19:55
Feedback	130459439948540000	2	30 May, 2014 10:19:55
Information/Metrics	130459427946217790	30036	30 May, 2014 09:59:58
Information/Metrics	130459427938526680		

Event Detail View

- Each event lists:
 - Rule name
 - Rule category
 - Event ID
 - Rule ID
 - Timestamp
 - Log files – Lists full file path and name for each log collected for this event.
- Click  at the top to return to log view.

  Event detail

Monitor Sub-System Resets
CRASH
Event ID: 130459346725020000
Rule ID: 300
30 May, 2014 07:44:41

Log files:

/data/SelfHost/130459346725020000-300-SendRule-01cf7c15ab2ca160-300.zip
/data/SelfHost/130459346725020000-300-SendRule-01cf7c15ab2ca160-300.zip
/data/SelfHost/130459346725020000-300-SendRule-01cf7c15ab2ca160-300.zip
/data/SelfHost/130459346725020000-300-SendRule-01cf7c15ab2ca160-300.zip
/data/SelfHost/130459346725020000-300-SendRule-01cf7c15ab2ca160-300.zip

Offline Running

Retrieving Logs Collected by LogKit II

- Logs collected by running LogKit II are stored at /data/SelfHost/QCLogs.
- To retrieve them from the device, connect the phone to a host computer and run:

```
adb pull <file_name>
```

- Example 1 – Get a specific log file

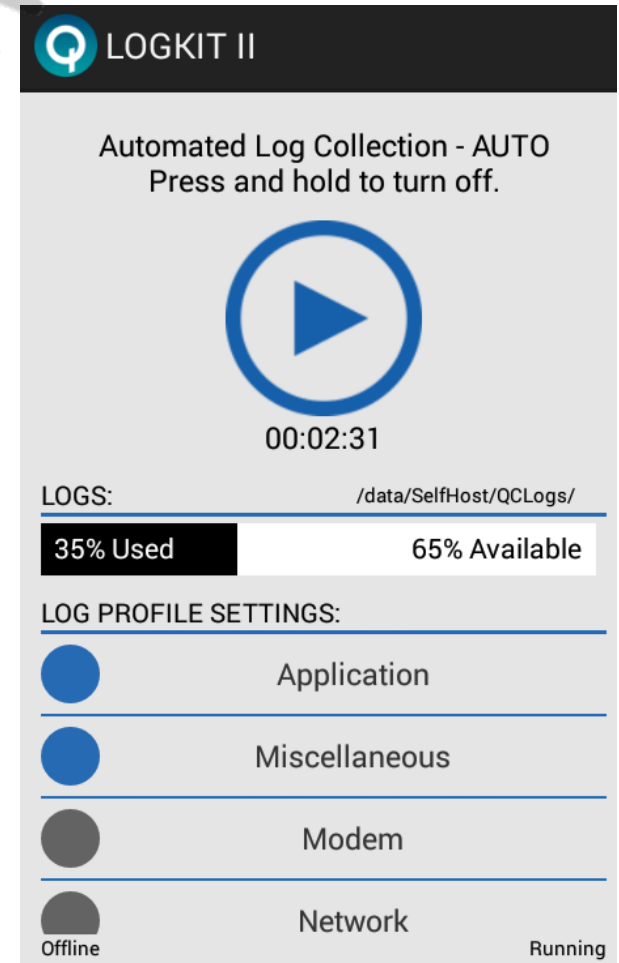
```
adb pull /data/SelfHost/QCLogs/130452637964480000-6-SendRule-01cf75fba9e2ae00-6.zip
```

- Example 2 – Get all logs matching a specific event ID


```
adb pull /data/SelfHost/QCLogs/130452637964480000*.zip
```

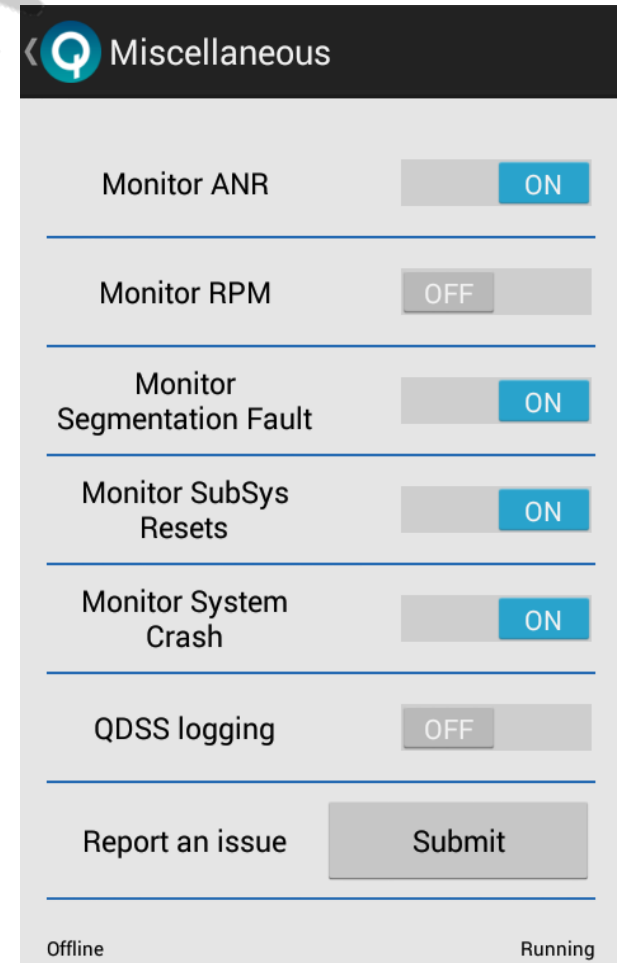
Log Profile Settings


- The Log Profile Settings options depend on the rules that were provided by QTI.
- Log profiles are divided into categories with the status of each indicated by a circle:
 - When LogKit II is in the Off state, all circles will appear gray.
 - When LogKit II is in the Auto or On state:
 - If any logging is enabled within a category, the status circle will be blue.
 - If all logging is disabled within a category, the status circle will be gray.



Log Profile Settings – Per Category

- Each option is listed with a switch to turn On or Off.
- Buttons can also be displayed that allow the user to trigger an action.
- Click  at the top to return to the main screen.



 Miscellaneous

Monitor ANR	<input checked="" type="checkbox"/> ON
Monitor RPM	<input type="checkbox"/> OFF
Monitor Segmentation Fault	<input checked="" type="checkbox"/> ON
Monitor SubSys Resets	<input checked="" type="checkbox"/> ON
Monitor System Crash	<input checked="" type="checkbox"/> ON
QDSS logging	<input type="checkbox"/> OFF
Report an issue	Submit

Offline Running

Note: All modifications made to switches when a logging session is On will not take effect until after the session is restarted

References

Ref.	Document	
Qualcomm Technologies		
Q1	Application Note: Software Glossary for Customers	CL93-V3077-1

QUALCOMM
zhangnan@hipad.com

QUALCOMM®
zhangnan@hipad.com

Questions?

<https://support.cdmatech.com>

