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## How to enable ODL (on-device logging) in Android devices

**Solution Number** 00018123

**Please Note:**

If Qualcomm documentation is referenced in this solution, your access to it is based on your company's

**Language Key Words** ODL, on-device logging, DIAG, debug, sd-card, QXDM

**Detail Information**

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**Solution Details** On-device logging allows diag messages to be stored on device file system. The feature is useful for field testing since it does not require a USB cable attached to the device while testing. To use this feature:

1. Create a logging configuration file using QXDM Pro (diag.cfg).
  - a. Open QXDM Pro and load a configuration file.
  - b. Open QXDM Pro's Filtered View (F12) and make sure that you are able to view required messages in this window.
  - c. Right-click the Filter view window and select config.
  - d. In the SD logging drop-down menu, select Save Diag Masks for stream 1.
  - e. Save and create a diag mask config file (e.g., diag.cfg).
  - f. Push this diag.cfg file to the device via ADB to the location /sdcard/diag\_logs. adb push diag.cfg /sdcard/diag\_logs

2. Launch the SD card logging application on the device via ADB. To do this:

- a. Enter the following command: adb shell
- b. Enter the following command:

```
/system/bin/diag_mdlog : this starts the logging, and the following prints should be seen:
root@android:/system/bin # ./diag_mdlog ./diag_mdlog
diag_mdlog: Continuing with default directory path
/sdcard/diag_logs/19700102_000819
diag_mdlog: Diag_LSM_Init succeeded.
REMOTE PROCESSOR MASK 0
logging switched
Output dirs /sdcard/diag_logs/19700102_000819 ---
/sdcard/diag_logs/19700102_000819
```

```
diag_mdlog: Reading mask for MSM, proc_type: 0
diag_mdlog: Default mask file being read for proc_type: 0
mask file name is: /sdcard/diag_logs/Diag.cfg
```

- c. To stop the logging and actually generate the output file with the diag message, press Ctrl+C on the same ADB shell prompt where the above command was given.
- d. Extract the log file to outside of the device and to a PC, using ADB.

3. View the log file using the QCAT software. See QCAT6 User Guide (80-V1233-6) for QCAT usage.

**Applicable Products** APQ8009, APQ8009W, APQ8016, APQ8036, APQ8037, APQ8039, APQ8056, APQ8064AU, APQ8076, APQ8096, APQ8096AU, APQ8096SG, MSM7225, MSM7225-1, MSM7225-65, MSM7227-65, MSM7230-0, MSM7230-1, MSM8108, MSM8110, MSM8112, MSM8125, MSM8125Q, MSM8126, MSM8128, MSM8130, MSM8200A, MSM8208, MSM8209, MSM8210, MSM8212, MSM8225, MSM8225-0, MSM8225-1, MSM8225Q, MSM8226, MSM8227, MSM8228, MSM8230, MSM8230AB, MSM8239, MSM8255, MSM8260, MSM8260A, MSM8260A PRO, MSM8262, MSM8274, MSM8274AB, MSM8274AC, MSM8526, MSM8528, MSM8608, MSM8609, MSM8610, MSM8612, MSM8625, MSM8625-0, MSM8625-1, MSM8625Q, MSM8626, MSM8627, MSM8628, MSM8630, MSM8630AB, MSM8655, MSM8660, MSM8660A, MSM8660A PRO, MSM8674, MSM8674AB, MSM8909, MSM8909W, MSM8916, MSM8917, MSM8926, MSM8928, MSM8929, MSM8930, MSM8930AB, MSM8936, MSM8937, MSM8939, MSM8940, MSM8952, MSM8953, MSM8956, MSM8960, MSM8960 PRO, MSM8974, MSM8974 PRO, MSM8974AA, MSM8974AB, MSM8974AC, MSM8976, MSM8992, MSM8994, MSM8996, MSM8996AU, MSM8996SG-AB, MSM8996SG-AC, MSM8997, MSM8998