



# **Sierra Wireless Android RIL Release Notes**

## **Lollipop 5.1 x86 RELEASE**

<b>Revision:</b>	<b>V5.1.6.0</b>
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## 1 General

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### 1.1 Purpose

This document describes the Sierra Wireless Android Lollipop 5.1 x86 RIL Release.

### 1.2 Summary of Document Revision History

Date	Author	Summary of Changes
24 Jul 2015	Leo Lee	Initial version for V5.1.1.0
21 Aug 2015	Leo Lee	Update for V5.1.2.0
30 Oct 2015	Leo Lee	Update for V5.1.3.0
27 Nov 2015	Leo Lee	Update for V5.1.4.0
11 Dec 2015	Leo Lee	Update for V5.1.5.0
7 Jan 2016	Leo Lee	Update for V5.1.6.0

## 2 Supported Configurations

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### 2.1 Release Configurations Supported

These release notes apply to the following release configurations:

AndroidRIL\_V5.1.6\_x86\_minnow\_64p\_5.1\_V1.0\_bin  
Android RIL version 5.1.5.0  
Supports x86 based processors, Intel Baytrail series  
For Android Lollipop (5.1) 64bit user space.  
Binary only release

### 2.2 Sierra Modules Supported

The Android RIL supports the following devices and firmware versions:

- MC8305 (G3K) - firmware version 1580 and 3.3
- MC8355 (G3K) - firmware version 1580 and 3.3
- MC7700 - firmware version SWI9200X\_03.05.16.01 (or greater)
- MC7710 - firmware version SWI9200X\_03.05.16.01 (or greater)
- MC7750 - firmware version SWI9600M\_03.05.10.05 (or greater)
- SL909x - firmware version 331403 (and greater)
- SL8092 - firmware version SWI6600P\_02.00.01.01 (or greater)
- MC7354 - firmware version SWI9X15C\_05.04.02 (or greater)
- MC7304 - firmware version SWI9X15C\_05.04.02 (or greater)
- EM7330 - firmware version SWI9X15C\_05.05.22 (or greater)
- EM7305 - firmware version SWI9X15C\_05.05.16 (or greater)
- EM8805 - firmware version SWI9X15C\_05.05.16 (or greater)
- MC/EM7355 - firmware version SWI9X15C\_05.05.16 (or greater)
- MC/EM7455 - firmware version SWI9X30C\_02.02.00.00 (or greater)
- HL7518 - firmware version HL75xx.2.13 (or greater)
- HL7528 - firmware version AHL7528.2.6.151000 (or greater)
- HL7538 - firmware version AHL7538.1.0.152100 (or greater)
- HL7539 - firmware version AHL7539.1.0.152101 (or greater)
- HL7548 - firmware version HL75xx.A.2.13 (or greater)
- HL7549 - firmware version BHL7549.1.3.15200 (or greater)
- HL7588 - firmware version AHL75xx.A2.6.151600(or greater)
- HL8518 - firmware version AHL85xx.5.13.2.3 (or greater)
- HL8528 - firmware version AHL85xx.5.13.2.3 (or greater)
- HL8529 - firmware version AHL85xx.5.13.2.3 (or greater)
- HL8548 - firmware version RHL85xx.5.5.12.0 (or greater)

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The MC7700 and MC7710 modules can be configured to operate in “QMI Mode” or “Direct-IP” mode. For this RIL to operate properly, the devices must be in “QMI Mode”.

MC73xx, MC7750, MC8305, MC8355 and SL909x only support QMI mode so they will work by default.

MC73xx support multi PDN by default, it needs to switch back to single PDN to work with Android RIL.

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### 3 Revision History

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#### 3.1 Version 5.1.6.0

- Fix CTS test case failure - testListen.
- Enhance SierraFwDI7xxx for image switching of 9x30 series.
- Enhance HL tools for firmware download and debug logging.

#### 3.2 Version 5.1.5.0

- Add support to GPS advance feature for 9x30 series modem.
- Complete US carrier test on EM7455 (except Sprint).

#### 3.3 Version 5.1.4.0

- Fix RIL issues found in Korea carrier testing for HL7528.
- Fix RIL cannot handle Incorrect SIM pin input with EM7455.
- Fix SierraFwDI7xxx update firmware failed on Minnow platform.
- Fix GNSS indication incorrect when GPS signal lost suddenly.

#### 3.4 Version 5.1.3.0

- Fix "In use" satellites indication incorrect after re-launch apps.
- Fix the signal strength not correct when roaming to Canada using Verizon SIM.
- Fix cellular data cannot re-connect after turning on/off "Cellular data".
- Fix IPV4V6 profile will cause Phone app crash in Android 5.1.
- Fix UI doesn't ask for PUK if SIM card locked.
- Fix the CTS verifier doesn't indicate "GPS Test" on hardware test menu.
- Enhance the radio technology selection in Android setting menu.
- Add support to HL8518/28/29, HL7528/38/39/49/88 and MC/EM7455.
- Add GPS support to 9x30 series modem.
- Add firmware switching support to 9x30 series modem.

#### 3.5 Version 5.1.2.0

- Fixed CLIR does not work.
- Fixed the "in use" satellite shows in UI does not match the NMEA sentences.
- Fixed incorrect debug message in GPS debug log
- Fixed no response when access GSM supplementary service settings
- Fixed the issue of relation between RF strength indication and ANT bar
- Fixed Sprint MO/MT SMS does not work on live network.
- Add support to HL7548.
- Add support to HL series FOTA with AVMS

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### 3.6 Version 5.1.1.0

- Initial RIL support Android 5.1 Lollipop.
- Fix GobiNet driver fail during start up.
- Add support to HL85xx module.

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## **4 Known Limitations**

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The following known issues exist in Android 5.1 RIL. We will work to resolve them in a future release.

- [ANO83531] SIM PIN query won't popup.

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## **5 Planned Feature Enhancements**

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### **5.1 Planned Feature Enhancements**

The following features are planned to be supported in a future release of the RIL:

- OTASP/OMADM support for MC73xx series modem.