



Customer Release Note

Android Lollipop 5.1 x86 64 RIL



SIERRA
WIRELESS®

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Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the Sierra Wireless modem are used in a normal manner with a well-constructed network, the Sierra Wireless modem should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Sierra Wireless accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Sierra Wireless modem, or for failure of the Sierra Wireless modem to transmit or receive such data.

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Document History

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Aug 21, 2015	Update for V5.1.2.0
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1. Introduction

1.1. Document Scope

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

1.2. Supported Configurations and Modules

1.2.1. Supported Release Configuration

This release note is applicable to release configuration:

AndroidRIL_V5.1.6.6_x86_bin

Android RIL version 5.1.6.6

x86 based processors for Android Lollipop (5.1) 64bit user space

Binary only release

1.2.2. Supported AirPrime Modules

The following table lists supported AirPrime modules and corresponding firmware versions.

Table 1. Supported AirPrime Modules and Firmware Versions

AirPrime Module	Firmware Version
AR7552	Firmware version SWI9X15A_07.10.08.00 r32399 (or newer)
EM7305	Firmware version SWI9X15C_05.05.16 (or newer)
EM7330	Firmware version SWI9X15C_05.05.22 (or newer)
EM8805	Firmware version SWI9X15C_05.05.16 (or newer)
HL7518	Firmware version HL75xx.2.13 (or newer)
HL7528	Firmware version AHL7528.2.6.151000 (or newer)
HL7538	Firmware version AHL7538.1.0.152100 (or newer)
HL7539	Firmware version AHL7539.1.0.152101 (or newer)
HL7548	Firmware version HL75xx.A.2.13 (or newer)
HL7549	Firmware version BHL7549.1.3.15200 (or newer)
HL7588	Firmware version AHL75xx.A2.6.151600 (or newer)
HL7618	Firmware version RHL7618.4.2.151600.201607210015.x7120_1 (or newer)
HL7648	Firmware version AHL7648.A.1.3.161601.201608091650.x7120m_1 (or newer)
HL7688	Firmware version AHL75xx.A2.6.151600 (or newer)
HL7690	Firmware version AHL769x_TEST.0.0.154401 (or newer)
HL8518	Firmware version AHL85xx.5.13.2.3 (or newer)
HL8528	Firmware version AHL85xx.5.13.2.3 (or newer)
HL8529	Firmware version AHL85xx.5.13.2.3 (or newer)

AirPrime Module	Firmware Version
HL8548	Firmware version RHL85xx.5.5.12.0 (or newer)
HL8549	Firmware version RHL85xx.5.5.12.0 (or newer)
MC/EM7355	Firmware version SWI9X15C_05.05.16 (or newer)
MC/EM7455	Firmware version SWI9X30C_02.02.00.00 (or newer)
MC/EM7430	Firmware version SWI9X30C_02.23.00.00 (or newer)
MC7304	Firmware version SWI9X15C_05.04.02 (or newer)
MC7354	Firmware version SWI9X15C_05.04.02 (or newer)
MC7700	Firmware version SWI9200X_03.05.16.01 (or newer)
MC7710	Firmware version SWI9200X_03.05.16.01 (or newer)
MC7750	Firmware version SWI9600M_03.05.10.05 (or newer)
MC8305 (G3K)	Firmware version 1580 and 3.3
MC8355 (G3K)	Firmware version 1580 and 3.3
SL8092	Firmware version SWI6600P_02.00.01.01 (or newer)
SL909x	Firmware version 331403 (or newer)

Note that:

- MC7700 and MC7710 modules can be configured to operate in either “QMI mode” or “Direct-IP” mode; the MC7700 and MC7710 modules must be in “QMI mode” for the Android RIL to operate properly.
- MC73xx, MC7750, MC8305, MC8355 and SL909x modules only support QMI mode and so will work by default.
- MC73xx supports multi-PDN by default; it must be switched back to single PDN to work with the Android RIL.



2. Change Summary

2.1. Version 5.1.6.6

- Fix phone number not refresh after OTA issue
- Add IPV6 support in RIL
- Fix Sierra logging tool doesn't work on Android 5.1+ issue
- Fix data call not start after PUK input issue
- Add radio technology in operator search result list

2.2. Version 5.1.6.2

- Fix SIM PIN query won't popup.
- Fix data connection loss after host resume.

2.3. 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.

2.4. Version 5.1.5.0

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

2.5. 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.

2.6. 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.

2.7. 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

2.8. Version 5.1.1.0

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



3. Known Limitations

Known issues in the Android 5.1 RIL.

- None

4. Planned Future Enhancements

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

- OTASP/OMADM support for MC73xx