



Customer Release Note

Android Nougat 7.1.3.0 ARM 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

Version	Date	Updates
1.0	Apr 28, 2017	Creation
1.1	May 26, 2017	Update for 7.1.3.0 release



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1. Introduction

1.1. Document Scope

This document describes the Sierra Wireless Android Nougat 7.1 ARM RIL release.

1.2. Supported Configurations and Modules

1.2.1. Supported Release Configuration

This release note is applicable to release configuration:

AndroidRIL_V7.1.3_ARM64_7.1_V1.0_bin

Android RIL version 7.1.3.0

ARM based processors for Android Nougat (7.1) 64-bit 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	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)
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)
WP7504	Firmware version SWI9X15Y_07.12.09.00 (or newer)
WP7603	Firmware version SWI9X07Y_02.00.01.0 (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 7.1.3.0

- Add support to WP7504 and WP7603
- Add support to Galileo and Beidou satellites
- Improve RIL task scheduler
- Improve Sierra GPS library stability
- Fix HL85xx 2G data session not working in India network

2.2. Version 7.1.2.0

- Add Sierra USB driver supported on Hikey Android 7.1 ARM64 platform.
- Add Sierra RIL supported on Hikey Android 7.1 ARM64 platform.



3. Known Limitations

Known issues in the Android 7.1 RIL.

- GPS is not working for WP7603

4. Planned Future Enhancements

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

- In call UI support for Dialer
- OTASP/OMADM support for MC73xx