



R10 Customer Release Notes

RC76xx

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Contact Information

Sales information and technical support, including warranty and returns	Web: sierrawireless.com/company/contact-us/ Global toll-free number: 1-877-687-7795 6:00 am to 5:00 pm PST
Corporate and product information	Web: sierrawireless.com

Revision History

Revision number	Release date	Changes
1	May 2022	Creation
2	July 2022	Updated Config versions and firmware component files for TMO, Verizon, ATT, LGU+, and KT.
3	August 2022	Updated ATT, KT, and LGU Config files
4	October 2022	Added: <ul style="list-style-type: none"> ▪ RC76xx_Release9_SIERRA_7620.exe under Release 9 ▪ Known Issue: QT19X07TX-3964 ▪ Major Carrier Configuration Changes
5	December 2022	Added: <ul style="list-style-type: none"> ▪ RC76xx_Release9_SIERRA_7611.exe under Release 9 ▪ Known Issue: MOLRC9X07-371
6	June 2023	Added: <ul style="list-style-type: none"> ▪ Release 9.6.1 ▪ RC76xx_Release 9.6.1_Telstra_7620.exe under Release 9.6.1 ▪ RC76xx_Release 9.6.1_KDDI_7630.exe under Release 9.6.1

Customer Release Notes

Revision number	Release date	Changes
7	December 2023	Added: <ul style="list-style-type: none">▪ Release 10▪ RC76xx_Release10_Generic_7611.exe under Release 10▪ RC76xx_Release10_ATT_7611.exe under Release 10▪ RC76xx_Release10_Verizon_7611.exe under Release 10▪ RC76xx_Release10_TMO_7611.exe under Release 10▪ RC76xx_Release10_Generic_7612.exe under Release 10▪ RC76xx_Release10_ATT_7612.exe under Release 10▪ RC76xx_Release10_Generic_7620.exe under Release 10▪ RC76xx_Release10_DT_7620.exe under Release 10▪ RC76xx_Release10_DOCOMO_7630.exe under Release 10▪ RC76xx_Release10_KDDI_7630.exe under Release 10
8	June 2025	Updated: <ul style="list-style-type: none">▪ 2.1.1. Release Identification▪ Used Semtech manual template

Contents

- Important Notice 2
- Wireless Communications..... 2
- Safety..... 2
- Qualcomm Licenses 3
- Sierra Wireless 3
- Contact Information 3
- Revision History 3

- 1: Introduction10**
 - 1.1 Document Scope 10
 - 1.2 Document Audience..... 10

- 2: SWI9X07H Release 10.011**
 - 2.1 Software Release Description..... 11
 - 2.1.1 Release Identification 11
 - 2.1.2 Software Tools Version..... 11
 - 2.1.3 Released Files 12
 - 2.2 Software Changes Description 14
 - 2.2.1 New Features 14
 - 2.2.2 Major Bug Fixes..... 15
 - 2.3 Known Issues..... 17
 - 2.4 Major Carrier Configuration Changes 17

- 3: SWI9X07H Release 9.6.118**
 - 3.1 Software Release Description..... 18
 - 3.1.1 Release Identification 18
 - 3.1.2 Software Tools Version..... 18
 - 3.1.3 Released Files 19
 - 3.2 Software Changes Description 20
 - 3.2.1 Major Bug Fixes..... 20
 - 3.3 Known Issues..... 21
 - 3.4 Major Carrier Configuration Changes 21

- 4: SWI9X07H Release 9.022**
 - 4.1 Software Release Description..... 22
 - 4.1.1 Release Identification 22
 - 4.1.2 Software Tools Version..... 22
 - 4.1.3 Released Files 23
 - 4.2 Software Changes Description 25
 - 4.2.1 New Features 25
 - 4.2.2 Major Bug Fixes..... 26
 - 4.3 Known Issues..... 26
 - 4.4 Major Carrier Configuration Changes 27

- 5: SWI9X07H Release 828**
 - 5.1 Software Release Description..... 28
 - 5.1.1 Release Identification 28
 - 5.1.2 Software Tools Version..... 28
 - 5.1.3 Released Files 29
 - 5.2 Software Changes Description 30
 - 5.2.1 Generic..... 30
 - 5.2.2 DOCOMO..... 31
 - 5.2.3 KDDI 31
 - 5.2.4 KT 31
 - 5.2.5 LGU 31

- 6: SWI9X07H Release 7.133**
 - 6.1 Software Release Description..... 33
 - 6.1.1 Release Identification 33
 - 6.1.2 Software Tools Version..... 33
 - 6.1.3 Released Files 34
 - 6.2 Software Changes Description 35
 - 6.2.1 Generic..... 36
 - 6.2.2 DOCOMO / KDDI / KT 36
 - 6.2.3 LGU 37

7: SWI9X07H Release 6.3	38
7.1 Software Release Description	38
7.1.1 Release Identification	38
7.1.2 Software Tools Version	38
7.1.3 Released Files	39
7.2 Software Changes Description	39
7.2.1 Legato	39
8: SWI9X07H Release 7	40
8.1 Software Release Description	40
8.1.1 Release Identification	40
8.1.2 Software Tools Version	40
8.1.3 Released Files	41
8.2 Software Changes Description	42
8.2.1 Generic	42
8.2.2 Verizon	42
8.2.3 R2C	43
8.2.4 DOCOMO	43
8.2.5 KDDI	43
9: SWI9X07H Release 6.2	44
9.1 Software Release Description	44
9.1.1 Release Identification	44
9.1.2 Software Tools Version	44
9.1.3 Released Files	45
9.2 Software Changes Description	46
9.2.1 R2C	46
10: SWI9X07H Release 6.1	47
10.1 Software Release Description	47
10.1.1 Release Identification	47
10.1.2 Software Tools Version	47
10.1.3 Released Files	48
10.2 Software Changes Description	49

- 10.2.1 Verizon 49
- 11: SWI9X07H Release 650**
 - 11.1 Software Release Description 50
 - 11.1.1 Release Identification 50
 - 11.1.2 Software Tools Version 50
 - 11.1.3 Released Files 51
 - 11.2 Software Changes Description 52
 - 11.2.1 R2C 52
- 12: SWI9X07H Release 553**
 - 12.1 Software Release Description 53
 - 12.1.1 Release Identification 53
 - 12.1.2 Software Tools Version 53
 - 12.1.3 Released Files 54
 - 12.2 Software Changes Description 55
 - 12.2.1 R2C 55
 - 12.2.2 AT&T 55
- 13: SWI9X07H Release 456**
 - 13.1 Software Release Description 56
 - 13.1.1 Release Identification 56
 - 13.1.2 Software Tools Version 56
 - 13.1.3 Released Files 57
 - 13.2 Software Changes Description 58
 - 13.2.1 R2C 58
 - 13.2.2 Verizon 59
 - 13.3 Known Issues 59
- 14: SWI9X07H Release 2 BP 860**
 - 14.1 Software Release Description 60
 - 14.1.1 Release Identification 60
 - 14.1.2 Software Tools Version 60
 - 14.1.3 Released Files 61

14.2 Software Changes Description 61

A: Appendix..... 62

15.1 Abbreviations and Definitions..... 62

15.2 Related Documentation 62

15.3 Compatibility 63

 15.3.1 Hardware Compatibility 63

1: Introduction

1.1 Document Scope

This document describes RC76xx firmware releases.

1.2 Document Audience

These release notes may be distributed to all direct and indirect customers.

2: SWI9X07H Release 10.0

2.1 Software Release Description

Release 10.0 brings these significant security improvements to the RC76xx series:

- Shared key or credentials are now stored in a more protected and secure TZ4.0 enabled IoT Keystore.
- Anti-rollback mechanism prevents the firmware from downgrading to a potentially more vulnerable version in case attackers get physical access to a device.
- USB NMEA format data can now be transmitted through the UART interface.
- Firmware is strengthened by modem and Legato enhancements.

2.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.09.10.00 85890e jenkins 2023/09/25 03:16:56
Legato Application Framework	22.10.0.ThreadX.rc10
Binary Size	29.5 MB (compressed one-click exe)
IMEI SV	29
Qualcomm baseline	MDM9607.TX.0.0-00089-STD.PROD-1.602455.2*
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.089.1.602455.2.602815.2
Supported H/W	RC7611, RC7611-1, RC7612, RC7620, RC7620-1, RC7630, RC7630-1

2.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4836
Linux Drivers	S2.39N2.60
Linux SDK	SLQS04.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

2.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved package					
RC76xx_Release10_GENERIC_7611.exe	Generic	SWI9X07H_00.09.10.00	001.164_000	22.10.0.ThreadX.rc10	GCF and PTCRB approved
RC76xx_Release10_ATT_7611.exe	ATT	SWI9X07H_00.09.10.00	001.096_000	22.10.0.ThreadX.rc10	ATT approved
RC76xx_Release10_VERIZON_7611.exe	Verizon	SWI9X07H_00.09.10.00	001.090_000	22.10.0.ThreadX.rc10	Verizon approved
RC76xx_Release10_TMO_7611.exe	TMO	SWI9X07H_00.09.10.00	001.068_000	22.10.0.ThreadX.rc10	TMO approved
RC76xx_Release10_SIERRA_7611.exe	SIERRA	SWI9X07H_00.09.10.00	000.107_000	22.10.0.ThreadX.rc10	Sierra approved (Data Only)
RC7612 Approved package					
RC76xx_Release10_GENERIC_7612.exe	Generic	SWI9X07H_00.09.10.00	001.164_000	22.10.0.ThreadX.rc10	GCF and PTCRB approved
RC76xx_Release10_ATT_7612.exe	ATT	SWI9X07H_00.09.10.00	001.096_000	22.10.0.ThreadX.rc10	ATT approved
RC7620/RC7620-1 Approved package					
RC76xx_Release10_GENERIC_7620.exe	Generic	SWI9X07H_00.09.10.00	001.164_000	22.10.0.ThreadX.rc10	GCF approved
RC76xx_Release10_SIERRA_7620.exe	SIERRA	SWI9X07H_00.09.10.00	000.107_000	22.10.0.ThreadX.rc10	Sierra approved (Data Only)
RC7630/RC7630-1 Approved package					
RC76xx_Release10_KDDI_7630.exe	KDDI	SWI9X07H_00.09.10.00	001.053_000	22.10.0.ThreadX.rc10	KDDI approved
RC76xx_Release10_DOCOMO_7630.exe	DOCOMO	SWI9X07H_00.09.10.00	001.043_000	22.10.0.ThreadX.rc10	DOCOMO approved
RC76xx_Release10_SIERRA_7630.exe	SIERRA	SWI9X07H_00.09.10.00	000.107_000	22.10.0.ThreadX.rc10	Sierra approved (Data Only)

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.09.10.00_00_GENERIC_001.164_000.spk 9999999_9909693_SWI9X07H_00.09.10.00_00_ATT_001.096_000.spk 9999999_9909694_SWI9X07H_00.09.10.00_00_VERIZON_001.090_000.spk 9999999_9909696_SWI9X07H_00.09.10.00_00_TMO_001.068_000.spk 9999999_9910147_SWI9X07H_00.09.10.00_00_KDDI_001.053_000.spk 9999999_9910146_SWI9X07H_00.09.10.00_00_DOCOMO_001.043_000.spk 9999999_9909717_SWI9X07H_00.09.10.00_00_SIERRA_000.107_000.spk appl_22.10.0.ThreadX.rc10.cwe

2.2 Software Changes Description

The following are changes in Release 10.0 since Release 9.0.

2.2.1 New Features

ID	Description	Affected Domain
QT19X07TX-4300	Add support SMS scheme of KSC5601	Modem
QT19X07TX-4158	Add support SMS scheme of KSC5601 on CM tool	Modem
QT19X07TX-4318	Add at+ccho with option for decimal value	Legato
QT19X07TX-4317	Add support on ATH to disconnect the Voice and Data call	Modem
QT19x07TX-4361	URC for Nitz notification updates and Auto timezone update	Modem
GILL-182	Shared key/Credential Migration to IoT Keystore	Legato
GILL-201	Add Anti-FW rollback mechanism	System
QT19X07TX-4358	New AT command AT!IIDIPV6 for IPV6's IID	Modem
QT19X07TX-4389	Add support of NMEA data output on UART	Modem
QT19X07TX-3885	Add support local update for +WDSR=4	Legato
QT19X07TX-3884	Add support +WDSI notifications on local update +WSDS	Legato
QT19X07TX-3881	Add support mode 0 for +WDSS command	Legato
QT19X07TX-3880	Add support level 4095 on +WDSI	Legato
QT19X07TX-3766	Add USBSERIALENABLE feature checking on !CUSTOM	Modem
MOLRC9X07-389	Add new AT command +WESHUTDOWN Command: Emergency Shutdown	Modem
MOLRC9X07-777	Add pulling the WAKE_ON_WWAN pin by TCP/IP packet	Modem

2.2.2 Major Bug Fixes

ID	Description	Affected Domain
QT19X07TX-4564	Module crashes/reboots during stress test while data is in transmission	Modem
QT19X07TX-4507	DFOTA task fails after flashing SKU image	Modem
QT19X07TX-4499	Device returns error while setting OneM2M FOTA server	Modem
QT19X07TX-4491	AT port freezes after AT+KTCPPSTART=1	Modem
QT19X07TX-4455	Wrong response on band query	Modem
QT19X07TX-4449	TPF cannot restart if previous download failed	Legato
QT19X07TX-4444	Module automatically connects to the AVMS server after TPF job is completed	Legato
QT19X07TX-4443	Module forced to start avcClient_Connect	Legato
QT19X07TX-4432	Redundant +WCC: 2 URC returned while MO is called	Modem
QT19X07TX-4426	Add level 2 protection on AT!ANTSEL	Modem
QT19X07TX-4418	VzW Motive TC 11.02 FOTA download completes but device fails to restart	Legato
QT19X07TX-4415	VoLTE and Data call are disconnected due to GPIO24 reconfigured direction	Modem
QT19X07TX-4398	Module crash on expired QAPI timer	Legato
QT19X07TX-4391	Double +KHTTP_ERROR: x,5 returned for unsuccessful connection	Legato
QT19X07TX-4379	Update \$LGTRRCV URC display rules	Legato
QT19X07TX-4365	No second "+CGEV" URCs returned when PDP is deactivated	Modem
QT19X07TX-4360	Module reboot unexpectedly during checking AT!DASPDM	Modem
QT19X07TX-4343	Fail to send AT command on UART1 while MUXMODE=1	Modem
QT19X07TX-4339	TX_ON fix	Modem
QT19X07TX-4337	Unstable dial-up connection on CMUX channel	Modem
QT19X07TX-4329	Establishing VoLTE with UART does not output CONNECT URC	Modem
QT19X07TX-4309	Deletion of modem SFS fix	Modem
QT19X07TX-4288	Unable to ready LGTRRASSON	Modem
QT19X07TX-4115	No response on AT\$LGTRTPS	Modem
QT19X07TX-4114	No response on LGTRMODFW after completing FW download	Legato
QT19X07TX-4111	Socket closes to enable LwM2M failure to bootstrap or registration	Modem
QT19X07TX-4089	TCP connection slow via UART1	Legato
QT19X07TX-4041	DFOTA task unable to reconstruct spkgz when other image is unchanged	Modem

Customer Release Notes

QT19X07TX-3981	Module unable to download firmware immediately after losing network connection	Legato
QT19X07TX-3970	Module crash on AT+WDSM when invalid packet data is received	Modem
QT19X07TX-3931 MOLRC9X07-417	Data call is disconnected after call ends on VoLTE	Modem
QT19X07TX-3921	Add new parameter for +KHTTPCFG to support configuring HTTP requests timeout	Legato
QT19X07TX-3908	Module crash on KCERTSTORE and KPRIVKSTORE	Legato
QT19X07TX-3897	Module crash on KUDPSND	Modem
QT19X07TX-3878	Enhancement of RASS AT command	Legato
QT19X07TX-3876	DFOTA process fails if modem activity is raised	Modem
QT19X07TX-3857	Syntax error makes error response on +CCHO	Modem
QT19X07TX-3824	Wrong response on AT\$LGTRRASSSTA	Legato
QT19X07TX-3823	Wrong response on AT\$LGTRSEND	Legato
QT19X07TX-3818	Slow response on @DBG after multiple queries	Modem
QT19X07TX-3802	Module hangs on +KTCPSND	Legato
MOLRC9X07-718 QT19X07TX-4435	Ring back tone is not the Australian Standard Ring tone when MO calls on 4G network	Modem
MOLRC9X07-683	Motive FOTA does not complete after reaching 90% and restarts again	Modem
MOLRC9X07-509	Service unstable due to ping pong handover	Modem
MOLRC9X07-418	Wrong response on +KTCPSND	Legato
QT19X07TX-4514	Generate IMS User-Agent information for Telstra	Modem
QT19X07TX-3964	Module cannot connect to AVMS server after FOTA from the old version	Legato
MOLRC9X07-331 MOLRC9X07-347 MOLRC9X07-354 MOLRC9X07-372 MOLRC9X07-373 MOLRC9X07-339 MOLRC9X07-95	Module crashes on QAPI timer expire	Legato
MOLRC9X07-311	Module downgrade from Rel9 to Rel8 fails	Modem

2.3 Known Issues

This section presents all known issues in this release.

Ticket	Description	Customer Impact
QT19X07TX-4611	Windows/Linux host cannot connect HTTPs website during Concurrent Data session	R10 did not support concurrent data session
QT19X07TX-4616	[CCLK] The module crashes when setting CCLK command with a time in the past	Only happened when setting a time in the past using CCLK command
MOLRC9X07-974	Choppy voice quality while using VoLTE	After the first HW reset or SW reset, the voice disappears a minute after the first VoLTE call is connected. No issues are found after the first call.
MOLRC9X07-291	AVMS session cannot be activated by "AT+WDSS=1,1" if "AT!SACT=1,1" is entered	AVMS session unable to get activated via AT+WDSS while second bearer exists
QT19X07TX-4619	[UART] OK is not returned when entering CS call with MUXMODE =1 on UART only	Module unable to return "CONNECT" but "CONNECT" can be returned after typing an extra command
QT19X07TX-4621	[SARGPIO] !SARGPIO test command returns "OK" when change "GPIOARENABLE" custom is 0	Command returned is wrong but has no functional impact

2.4 Major Carrier Configuration Changes

This section presents the major carrier changes in this release.

Table 2-1: Carrier Configuration Changes for SWI9X07H Release 9.6.1

Carrier	Configuration	Changes
GENERIC	001.164	Aligned with the Firmware to SWI9X07H_00.09.10.00
ATT	001.096	Aligned with the Firmware to SWI9X07H_00.09.10.00
VERIZON	001.090	Aligned with the Firmware to SWI9X07H_00.09.10.00
TMO	001.068	Aligned with the Firmware to SWI9X07H_00.09.10.00
KDDI	001.053	Aligned with the Firmware to SWI9X07H_00.09.10.00
DOCOMO	001.043	Aligned with the Firmware to SWI9X07H_00.09.10.00
SIERRA	000.107	Aligned with the Firmware to SWI9X07H_00.09.10.00

3: SWI9X07H Release 9.6.1

Release 9.6.1 is a major release.

3.1 Software Release Description

3.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.08.44.07 2539f0 jenkins 2023/04/26 10:17:51
Legato Application Framework	22.10.0.ThreadX.rc4
Binary Size	29.5 MB (compressed one-click exe)
IMEI SV	28
Qualcomm baseline	MDM9607.TX.1.0-00089-STD.PROD-1.463040.2.469835.3a*
Qualcomm SBA	MDM9607.TX.1.0 Post-CS Post-CS 0.0.089.1.463040.2.469835.3a
Supported H/W	RC7620, RC7620-1, RC7630, RC7630-1

3.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4836
Linux Drivers	S2.39N2.60
Linux SDK	SLQ504.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

3.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7620/RC7620-1 Approved package					
RC76xx_Release9.6.1_T ELSTRA_7620.exe	Telstra	SWI9X07H_00.08.44. 07	001.024_000	22.10.0.ThreadX.rc4	Telstra approved
RC76xx_Release9.6.1_G ENERIC_7620.exe	Generic (GCF)	SWI9X07H_00.08.44. 07	001.145_000	22.10.0.ThreadX.rc4	GCF approved
RC7630/RC7630-1 Approved package					
RC76xx_Release9.6.1_K DDI_7630.exe	KDDI	SWI9X07H_00.08.44. 06	001.046_000	22.10.0.ThreadX.rc4	KDDI approved
RC76xx_Release9.6.1_G ENERIC_7630.exe	Generic	SWI9X07H_00.08.44. 06	001.148_000	22.10.0.ThreadX.rc4	

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.08.44.06_00_GENERIC_001.148_000.spk 9999999_9909667_SWI9X07H_00.08.44.07_00_GENERIC_001.145_000.spk 9999999_9910147_SWI9X07H_00.08.44.06_00_KDDI_001.046_000.spk 9999999_9910440_SWI9X07H_00.08.44.07_00_TELSTRA_001.024_000.spk appl_22.10.0.ThreadX.rc4.cwe

3.2 Software Changes Description

The following are changes in Release 9.6.1 since Release 9.0.

3.2.1 Major Bug Fixes

ID	Description	Affected Domain
QT19X07TX-4514	[RC7620-1][Telstra][Useragent] Device declares wrong UserAgent for RC7620-1 module	Modem
QT19X07TX-4455	[BAND] !BAND query command would return incorrect configured set of operating bands	Modem
QT19X07TX-4435	[RC7620][Telstra] Issue 8 - Ring back tone is not the Australian Standard Ring tone when the device performs MO call on 4G network	Modem
QT19X07TX-4415	[RC7630][KDDI] Both VoLTE and Dial-up are disconnected when using RC76 Dev Kit - on top of 08.44.03	Modem
QT19X07TX-3964	[AVMS] Module could not connect to AVMS server after successful firmware upgrade through either FOTA or local download from R6.4/R7/R8 to R9 Workaround: manual reset conducted through customer application	Legato
MOLRC9X07-331	Modem may reset after a long hour of stress-testing data transmission	Modem
MOLRC9X07-347	Gobinet USB driver detach/attach issue after a long hour of stress-testing data transmissions	Modem
MOLRC9X07-354	Modem is possibly restarted during dial-up connection after a long hour of stress-testing data transmissions	Modem
MOLRC9X07-372	Modem may reset after 20 hours of data connection.	Modem
MOLRC9X07-373	Modem reset may sporadically happen while uploading data.	Modem
MOLRC9X07-417	Ping fails after inputting 'ATH' during VoLTE call and dial-up connection	Modem
MOLRC9X07-339	Module may reset during data connection	Modem
MOLRC9X07-311	Xmodem does not work	Modem
MOLRC9X07-95	Module crashes during multiple kinds of user scenario	Modem

3.3 Known Issues

This section presents all known issues in this release.

Ticket	Description	Customer Impact
MOLRC9X07-291	[RC76xx][+WDSS] AVMS session cannot be activated by "AT+WDSS=1,1" if "AT!SCACT=1,1" is entered	Concurrent data connections with the single APN are not allowed
MOLRC9X07-371	The module will be resetting in a loop and enter the DM mode	If the module FW is downgraded from Rel 9.x to Rel6.0/Rel 6.2/Rel 6.3/Rel 6.4, the module will be resetting in a loop and could not be recovered.

3.4 Major Carrier Configuration Changes

This section presents the major carrier changes in this release.

Table 3-1: Carrier Configuration Changes for SWI9X07H Release 9.6.1

Carrier	Configuration	Changes
GENERIC	001.145	Aligned with the Firmware to SWI9X07H_00.08.44.07
Telstra	v001.024	Aligned with the Firmware to SWI9X07H_00.08.44.07
KDDI	v001.046	Aligned with the Firmware to SWI9X07H_00.08.44.06
GENERIC	001.148	Aligned with the Firmware to SWI9X07H_00.08.44.06

4: SWI9X07H Release 9.0

Release 9.0 is a major release.

4.1 Software Release Description

4.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.08.24.02 f90cbd jenkins 2022/03/21 03:47:54
Legato Application Framework	21.09.1.ThreadX.rc1
Binary Size	29.5 MB (compressed one-click exe)
IMEI SV	19
Qualcomm baseline	MDM9607.TX.1.0-00089-STD.PROD-1.353159.1.363371.1*
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.089.1.416077.1.419248.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1, RC7630, RC7630-1

4.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4836
Linux Drivers	S2.39N2.60
Linux SDK	SLQ504.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

4.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved package					
RC76xx_Release9_GENERIC_PTCRB_7611.exe	Generic (PTCRB)	SWI9X07H_00.08.20.00	001.094_000	21.09.1.ThreadX.rc1	PTCRB approved
RC76xx_Release9_TMO_7611.exe	TMO	SWI9X07H_00.08.20.00	001.050_000	21.09.1.ThreadX.rc1	TMO approved
RC76xx_Release9_VERIZON_7611.exe	VERIZON	SWI9X07H_00.08.20.00	001.066_000	21.09.1.ThreadX.rc1	VERIZON approved
RC76xx_Release9_ATT_7611.exe	ATT	SWI9X07H_00.08.20.00	001.074_000	21.09.1.ThreadX.rc1	ATT approved
RC76xx_Release9_UScellular_7611.exe	US cellular	SWI9X07H_00.08.19.00	001.093_000	21.09.1.ThreadX.rc1	US cellular approved
RC76xx_Release9_SIERA_7611.exe	Sierra	SWI9X07H_00.08.20.00	000.070_000	21.09.1.ThreadX.rc1	R2C compatible ^a
RC7620/RC7620-1 Approved package					
RC76xx_Release9_GENERIC_GCF_7620.exe	Generic	SWI9X07H_00.08.24.02	001.110_000	21.09.1.ThreadX.rc1	GCF approved
RC76xx_Release9_SIERA_7620.exe	Sierra	SWI9X07H_00.08.24.02	000.081_000	21.09.1.ThreadX.rc1	R2C compatible ^a
RC7630/RC7630-1 Approved package					
RC76xx_Release9_LGU+_7630.exe	LGU+	SWI9X07H_00.08.19.00	001.037_000	21.09.1.ThreadX.rc1	LGU+ approved
RC76xx_Release9_KT_7630.exe	KT	SWI9X07H_00.08.12.00	001.033_000	21.09.1.ThreadX.rc1	KT approved

a. Refer to Known Issue: QT19X07TX-3964

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.08.20.00_00_GENERIC_001.094_000.spk 9999999_9909667_SWI9X07H_00.08.19.00_00_UScellular_001.093_000.spk 9999999_9909667_SWI9X07H_00.08.24.02_00_GENERIC_001.110_000.spk 9999999_9909696_SWI9X07H_00.08.20.00_00_TMO_001.050_000.spk 9999999_9909694_SWI9X07H_00.08.20.00_00_VERIZON_001.066_000.spk 9999999_9909693_SWI9X07H_00.08.20.00_00_ATT_001.074_000.spk 9999999_9910064_SWI9X07H_00.08.19.00_00_LGU_001.037_000.spk 9999999_9910066_SWI9X07H_00.08.12.00_00_KT_001.033_000.spk 9999999_9909717_SWI9X07H_00.08.24.02_00_SIERRA_000.081_000.spk 9999999_9909717_SWI9X07H_00.08.20.00_00_SIERRA_000.070_000.spk appl_21.09.1.ThreadX.rc1.cwe

4.2 Software Changes Description

The following are changes in Release 9.0 since Release 8.

4.2.1 New Features

ID	Description
GILL-145	Dynamic update of TS.25 PLMN List
GILL-164	IMS ENABLED (Generic FW only)
GILL-143	IMS Config via AT command
GILL-144	Multiple certificates and ksslcrypto profiles to specifically be assigned a loaded certificate in SSL/HTTPS implementation
GILL-142	Audio loopback AT command (for factory testing)
GILL-141	Support of Simultaneous Voice and Data Sessions (ATD99***1#)
GILL-147	AT&T FirstNetS1U encryption (configurable MTU size)
GILL-126	Sierra R2C profile 5.2.1

4.2.2 Major Bug Fixes

ID	Description	Affected Domain
QT19X07TX-3461	[SO] Implement TCP Server support	Application
QT19X07TX-3027	[PROTOCOL][TLS1.2] Module does not provide its certificate to server	Application
QT19X07TX-3028	[PROTOCOL][KFTPLS] +CME ERROR: 907 is returned when reading the length of the inexistent file	Application
QT19X07TX-3050	[PROTOCOL][KFTPCFG] The KFTPCFG? shows incorrect value of configured <af> parameter.	Application
QT19X07TX-3057	[PROTOCOL][IPV6][KFTPCFG] <af>parameter does not work when connecting to IPV6 FTP server	Application
QT19X07TX-3144	[PROTOCOL][TCP][TLS] TLS over TCP connection cannot be established in the case of Authenticate server.	Application
QT19X07TX-3248	[PROTOCOL][FTPS][KFTPCFG] Cannot start FTPS connection from module to server.	Application
QT19X07TX-3566	[MECS][RI] RI1 is not asserted when module receives a SMS message	Modem
QT19X07TX-3602	[RC7620] Issue with Long URL in HTTPGET	Application
QT19X07TX-3245	[Legato][PROTOCOL][FTPS][KFTPCFG] Failed to check syntax of KFTPCFG command.	Application
QT19X07TX-3746	[!AVTXG has no effect	Modem
QT19X07TX-3753	Voice call failure after ppp disconnection	Modem

4.3 Known Issues

This section presents all known issues in this release.

Ticket	Description	Customer Impact
QT19X07TX-3964	[AVMS] Module could not connect to AVMS server after successful firmware upgrade through either FOTA or local download from R6.4/R7/R8 to R9 Workaround: manual reset conducted through customer application	After the module with legacy firmware is upgraded to R9.0, RC76xx module may not connect back to the Sierra AV Server, after successful firmware install, to finish status reporting.
MOLRC9X07-331	Modem may reset after a long hour of stress-testing data transmission	Sporadic module reset after long hours
MOLRC9X07-347	Gobinet USB driver detach/attach issue after a long hour of stress-testing data transmissions	Sporadic module reset after long hours
MOLRC9X07-354	Modem is possibly restarted during dial-up connection after a long hour of stress-testing data transmissions	Sporadic module reset after long hours
MOLRC9X07-372	Modem may reset after 20 hours of data connection.	Sporadic module reset after long hours

MOLRC9X07-373	Modem reset may sporadically happen while uploading data.	Sporadic module reset after long hours
MOLRC9X07-417	Ping fails after inputting 'ATH' during VoLTE call and dial-up connection	PPP session is also disconnected while voice session is terminated by ATH
MOLRC9X07-339	Module may reset during data connection	Sporadic module reset after long hours
MOLRC9X07-291	[RC7630][+WDSS] AVMS session cannot be activated by "AT+WDSS=1,1" if "AT!SCACT=1,1" is entered	Concurrent data connections with the single APN are not allowed
MOLRC9X07-371	The module will be resetting in a loop and enter the DM mode	If the module FW is downgraded from Rel 9.x to Rel6.0/Rel 6.2/Rel 6.3/Rel 6.4, the module will be resetting in a loop and could not be recovered.

4.4 Major Carrier Configuration Changes

This section presents the major carrier changes in this release.

Table 4-1: Carrier Configuration Changes for SWI9X07H Release 9.0

Carrier	Configuration	Changes
GENERIC_PTCRB	v001.094	Aligned with the Firmware to SWI9X07H_00.08.20.00
GENERIC_GCF	v001.110	Aligned with the Firmware to SWI9X07H_00.08.24. 02
ATT	v001.074	OEMPRI-22810 [ATT] Set the MTU size persistence from On to Ignore
TMO	v001.050	Aligned with the Firmware to SWI9X07H_00.08.20.00
VZW	v001.066	Aligned with the Firmware to SWI9X07H_00.08.20.00
US cellular	v001.093	Aligned with the Firmware to SWI9X07H_00.08.19.00
LGU+	v001.037	Aligned with the Firmware to SWI9X07H_00.08.19.00
KT	v001.033	Aligned with the Firmware to SWI9X07H_00.08.19.00

5: SWI9X07H Release 8

Release 8 is a major release.

5.1 Software Release Description

5.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.08.07.00 0ce4c1 jenkins 2021/03/17 02:18:20
Legato Application Framework	20.03.0.m1.ThreadX.rc4 1
Binary Size	29.1 MB (compressed one-click exe)
IMEI SV	17
Qualcomm baseline	MDM9607.TX.1.0-00089-STD.PROD-1.353159.1.363371.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.089.1.363371.1.378695.1
Supported H/W	RC7620, RC7620-1, RC7630, RC7630-1

5.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4836
Linux Drivers	S2.39N2.60
Linux SDK	SLQS04.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

5.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7620/RC7620-1 Approved package					
RC76xx_Release8_GENERIC_GCF_7620.exe	Generic (GCF)	SWI9X07H_00.08.07.00	001.081_000	20.03.0.m1.ThreadX.rc41	GCF approved
RC76xx_Release8_SIERRA_R2C_7620.exe	Sierra	SWI9X07H_00.08.07.00	000.057_000	20.03.0.m1.ThreadX.rc41	R2C approved
RC7630/RC7630-1 Approved package					
RC76xx_Release8_GENERIC_GCF_7630.exe	Generic (GCF)	SWI9X07H_00.07.01.01	001.076_000	20.03.0.m1.ThreadX.rc41	GCF approved
RC76xx_Release8_KDDI_7630.exe	KDDI	SWI9X07H_00.08.07.00	001.022_000	20.03.0.m1.ThreadX.rc41	KDDI approved
RC76xx_Release8_DOCOMO_7630.exe	DOCOMO	SWI9X07H_00.07.01.01	001.015_000	20.03.0.m1.ThreadX.rc41	DOCOMO approved

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.07.01.01_00_GENERIC_001.076_000.spk (RC7630 GCF) 9999999_9910146_SWI9X07H_00.07.01.01_00_DOCOMO_001.015_000.spk (RC7630 DoCoMo) 9999999_9910147_SWI9X07H_00.08.07.00_00_KDDI_001.022_000.spk (RC7630 KDDI) 9999999_9909667_SWI9X07H_00.08.07.00_00_GENERIC_001.081_000.spk (RC7620 GCF) 9999999_9909717_SWI9X07H_00.08.07.00_00_SIERRA_000.057_000.spk (RC7620 R2C) appl_20.03.0.m1.ThreadX.rc41.cwe
To be available in https://source.sierrawireless.com	

5.2 Software Changes Description

The following are changes in Release 8 since Release 7.1.

5.2.1 Generic

ID	Description	Affected Domain
QTI9X07TX-3054	Add QTI stack r00089.1 Post-CS 0.0.089.1 to tx-1.0-swi	
QTI9X07TX-3118	Add QTI stack r00089.1.353159.1 - Post-r00089.1.353159.1 to tx-1.0-swi	
QTI9X07TX-3127	Increment SVN on RC76 main branch to 17	
QTI9X07TX-3058	[RC76xx][PROTOCOL][KFTPSND] Sometimes module is frozen when sending FTP data by KFTPSND command	
QTI9X07TX-3087	[PROTOCOL][TLS1.2][TCP] The TCP over TLS connection cannot be established without loading any certificates or keys to the module	
QTI9X07TX-3170	Add QTI stack r00089.1.353159.1.363371.1	
QTI9X07TX-2585	[AT]ATKTCHFIX	
QTI9X07TX-3278	GNSS fix 2D/3D status mismatch between NMEA log and AT	
QTI9X07TX-3262	Add Post-CS 0.0.089.1.363371.1.378695.1 to tx-1.0-swi	
QTI9X07TX-3286	[Uart]After received some URC, Uart port will freeze.	
QTI9X07TX-3309	[UART]IPR can not set 921600	

5.2.2 DOCOMO

ID	Description	Affected Domain
QT19X07TX-1549	Enable SMS over IMS feature	

5.2.3 KDDI

ID	Description	Affected Domain
QT19X07TX-1549	Enable SMS over IMS feature	
QT19X07TX-3206	[KDDI][RC7630] Change AT!GPSSUPLURL to a level 3 at command	
QT19X07TX-3271	[KDDI][RC7630] Outputs NMEA report while !GPSNMEACONFIG=0	

5.2.4 KT

ID	Description	Affected Domain
QT19X07TX-1549	Enable SMS over IMS feature	

5.2.5 LGU

ID	Description	Affected Domain
QT19X07TX-2682	[oneM2M] Implement command \$OM_R_INS_REQ	
QT19X07TX-2683	[oneM2M] Implement command \$OM_D_INS_REQ	
QT19X07TX-2688	[oneM2M] \$OM_AUTH_REQ Send authentication message	
QT19X07TX-2693	[oneM2M] Implement command \$OM_DEV_FWUP_REQ and \$OM_MODEM_FWUP_REQ	
QT19X07TX-2974	[LGU][LGTDBGSCR] LGTDBGSCRS response a wrong format	
QT19X07TX-3020	[LGU][AT\$LGTDBGSCR]The band value is incorrect	
QT19X07TX-3079	[oneM2M] Implement task/message queue and atcmd framework in MPSS	
QT19X07TX-3094	[oneM2M] Implement timer management related APIs	
QT19X07TX-1549	Enable SMS over IMS feature	
QT19X07TX-2694	[oneM2M] \$OM_DEV_FWUP_START Request New FW Data	
QT19X07TX-2695	[oneM2M] Implement \$OM_DEV_FWUP_FINISH and \$OM_MODEM_FWUP_FINISH	
QT19X07TX-2995	[LGU][LGTSEND] Wrong data size when sending LGTRSEND from the second time	

Customer Release Notes

QTI9X07TX-3088	[LGU] AT\$LGTRRASSON fail although module registered to Network	
QTI9X07TX-3108	[LGU][LGTRRASSON] Failed to restart TCP connection to RASS server after each previous succes	
QTI9X07TX-2888	[LGU][LGTRSEND] Wrong response is returned when checking LGTRSEND test command	
QTI9X07TX-2965	[LGU][LGTRQOS] Wrong format response when querying AT\$LGTRQOS command	
QTI9X07TX-3088	[LGU] AT\$LGTRRASSON fail although module registered to Network	
QTI9X07TX-3079	[oneM2M] Implement task/message queue and atcmd framework in MPSS	
QTI9X07TX-3094	[oneM2M] Implement timer management related APIs	
QTI9X07TX-2970	[oneM2M] Implement a PDP session	
QTI9X07TX-3126	[oneM2M] Implement socket connection APIs in MPSS	
QTI9X07TX-3165	[oneM2M] Implement config read and write APIs in MPSS	
QTI9X07TX-3157	[oneM2M] Implement XML parser APIs in MPSS	
QTI9X07TX-3177	[oneM2M] Implement APIs to read or write params in efs in MPSS	
QTI9X07TX-2970	[oneM2M] Implement a PDP session	
QTI9X07TX-2888	[LGU][LGTRSEND] Wrong response is returned when checking LGTRSEND test command	
QTI9X07TX-3088	[LGU] AT\$LGTRRASSON fail although module registered to Network	
QTI9X07TX-3214	[oneM2M] Implement encrypted APIs within QTI platform	
QTI9X07TX-3223	[oneM2M] Verify LGU test server terminal authentication and resource creation	
QTI9X07TX-3226	[oneM2M] Implement atcmds \$LGTMPIF in MPSS	
QTI9X07TX-3235	[oneM2M] Implement atcmd \$OM_B_CSE_REQ	
QTI9X07TX-3247	[oneM2M] Implement atcmd \$OM_RESET_FINISH	
QTI9X07TX-3236	[LGU][LGTRMODFWI] The Modem Firmware Download function works incorrectly with valid FTP server.	

6: SWI9X07H Release 7.1

Release 7.1 is a major release.

6.1 Software Release Description

6.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.07.01.01 941d82 jenkins 2021/01/22 10:39:56
Legato Application Framework	20.03.0.m1.ThreadX.rc34
Binary Size	29.2 MB (compressed one-click exe)
IMEI SV	16
Qualcomm baseline	MDM9607.TX.1.0-00082-STD.PROD-2.337450.1.368669.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.082.2.337450.1.368669.1
Supported H/W	RC7630, RC7630-1

6.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4836
Linux Drivers	S2.39N2.60
Linux SDK	SLQS04.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

6.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7630/RC7630-1 Approved package					
RC76xx_Release7.1_GE NERIC_GCF_7630.exe	Generic (GCF)	SWI9X07H_00.07.01.0 1	001.076_000	20.03.0.m1.ThreadX.rc 34	GCF approved
RC76xx_Release7.1_KD DI_7630.exe	KDDI	SWI9X07H_00.07.01.0 1	001.017_000	20.03.0.m1.ThreadX.rc 34	KDDI approved
RC76xx_Release7.1_DO COMO_7630.exe	DOCOMO	SWI9X07H_00.07.01.0 1	001.015_000	20.03.0.m1.ThreadX.rc 34	DOCOMO approved

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.07.01.01_00_GENERIC_001.076_000.spk (RC7630 GCF) 9999999_9910147_SWI9X07H_00.07.01.01_00_KDDI_001.017_000.spk (RC7630 KDDI) 9999999_9910146_SWI9X07H_00.07.01.01_00_DOCOMO_001.015_000.spk (RC7630 DoCoMo) appl_20.03.0.m1.ThreadX.rc34.cwe
To be available in https://source.sierrawireless.com .	

6.2 Software Changes Description

The following are changes in Release 7.1 since Release 7.

6.2.1 Generic

ID	Description	Affected Domain
QT19X07TX-3202	Add Post-CS 0.0.082.2.337450.1.368669.1 to tx-1.0-swi_00.07.01.00	
QT19X07TX-2785	[ATD]Module cannot make data connection with KDDI network	
QT19X07TX-2929	+kpattern doesn't accepts 8 bit characters	
QT19X07TX-2875	Add QTI stack r00075.1.318295.1 to tx-1.0-swi	
QT19X07TX-1582	[AT] AT\$LGTRQOS Command	
QT19X07TX-1590	[AT] AT\$LGTRTPS Command	
QT19X07TX-1591	[AT] AT\$LGTRTPR Command	
QT19X07TX-2287	[AtIP] AT+KFTPCFG	
QT19X07TX-2288	[AtIP] AT+KFTPCNX	
QT19X07TX-2289	[AtIP] AT+KFTPRCV	
QT19X07TX-2290	[AtIP] AT+KFTPSND	
QT19X07TX-2291	[AtIP] AT+KFTPDEL	
QT19X07TX-2292	[AtIP] +KFTP_IND	
QT19X07TX-2293	[AtIP] AT+KFTPCLOSE	
QT19X07TX-2294	[AtIP] AT+KFTPCFGDEL	
QT19X07TX-2295	[AtIP] AT+KFTPLS	
QT19X07TX-2791	[AT] AT\$LGTRMODFW Command	
QT19X07TX-2792	[AT] AT\$LGTRMODFWI Command	
QT19X07TX-1590	[AT] AT\$LGTRTPS Command	
QT19X07TX-2967	Add QTI stack r00082.2 Post-CS 0.0.082.2 to tx-1.0-swi	
QT19X07TX-2570	[AT] AT+DBGCFG	
QT19X07TX-2992	Add QTI stack r00082.2.337450.1 - Post-r00082.2.337450.1 to tx-1.0-swi	

6.2.2 DOCOMO / KDDI / KT

ID	Description	Affected Domain
QT19X07TX-2629	VoLte Support for Docomo, KDDI, LGU+, and KT	

6.2.3 LGU

ID	Description	Affected Domain
QT19X07TX-2669	[oneM2M] Develop XML parser and param storage related APIs	
QT19X07TX-2924	[oneM2M] OM package support QXDM logging by category	
QT19X07TX-2905	[oneM2m] Folder name change to OM	
QT19X07TX-2629	VoLte Support for Docomo, KDDI, LGU+, and KT	
QT19X07TX-2673	[OneM2M] Implement \$OM_C_SUB_REQ (Create Subscription)	
QT19X07TX-2674	[oneM2M] Implement command \$OM_C_CON_REQ	
QT19X07TX-2676	[OneM2M]Implement \$OM_D_SUB_REQ (Delete Subscription)	
QT19X07TX-2677	[oneM2M] Implement command \$OM_D_CON_REQ	
QT19X07TX-2944	[oneM2M] Implement a message queue for asynchronized command processing	
QT19X07TX-2968	[oneM2M] Implement config parameter read in initializeprod	
QT19X07TX-2679	[OneM2M]Implement \$OM_C_ACP_REQ (Set Access Policy)	
QT19X07TX-2684	[OneM2M]Implement \$OM_R_ACP_REQ (Read Access Policy)	
QT19X07TX-2686	[OneM2M]Implement \$OM_U_ACP_REQ (Update Access Policy)	
QT19X07TX-2687	[OneM2M]Implement \$OM_D_ACP_REQ (Delete Access Policy)	
QT19X07TX-2691	[oneM2M] \$OM_C_CSE_REQ Create Remote CSE registration	
QT19X07TX-2692	[oneM2M] \$OM_D_CSE_REQ Delete Remote CSE registration	
QT19X07TX-2708	[oneM2M] Implement command \$OM_C_INS_REQ	
QT19X07TX-2968	[oneM2M] Implement oneM2M config paramant read in initialize	
QT19X07TX-2986	[oneM2M] \$OM_R_CSE_REQ Retrieve Remote CSE registration	

7: SWI9X07H Release 6.3

Release 6.3 is a major release.

7.1 Software Release Description

7.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.03.03.00 2bb7a4 jenkins 2020/04/15 07:57:29
Legato Application Framework	20.03.0.m4.ThreadX.rc3
Binary Size	29.1 MB (compressed one-click exe)
IMEI SV	14
Qualcomm baseline	MDM9607.TX.1.0-00064-STD.PROD-1.275918.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.064.1.275918.1
Supported H/W	RC7611, RC7611-1

7.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4836
Linux Drivers	S2.39N2.60
Linux SDK	SLQS04.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

7.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved					
RC76xx_Release6.3_SIE RRA_R2C_7611.exe	Sierra	SWI9X07H_00.03.03.0 0	000.027_000	20.03.0.m4.ThreadX.rc 3	R2C approved

Function	Files
Firmware components	9999999_9909717_SWI9X07H_00.03.03.00_00_SIERRA_000.027_000.spk (RC7611 R2C) appl_20.03.0.m4.ThreadX.rc3.cwe
To be available in https://source.sierrawireless.com	

7.2 Software Changes Description

The following are changes in Release 6.3 since Release 6.2.

7.2.1 Legato

ID	Description	Affected Domain
QT19X07TX-3225	Merge patch for Release6.3	

8: SWI9X07H Release 7

Release 7 is a major release.

8.1 Software Release Description

8.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.06.05.01 59d234 jenkins 2020/10/05 01:55:15
Legato Application Framework	20.03.0.m5.ThreadX.rc1
Binary Size	28.5 MB (compressed one-click exe)
IMEI SV	16
Qualcomm baseline	MDM9607.TX.1.0-00075-STD.PROD-1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.075.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1, RC7630, RC7630-1

8.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.42N2.63
Linux SDK	SLQ504.00.26

Note: Download the following tools from <https://source.sierrawireless.com/>

8.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved package					
RC76xx_Release7_ATT_7611.exe	ATT	SWI9X07H_00.03.03.00	001.040_000	20.03.0.m5.ThreadX.rc1	ATT approved
RC76xx_Release7_GENERIC_GCF_7611.exe	Generic (PTCRB / GCF)	SWI9X07H_00.03.03.00	001.046_000	20.03.0.m5.ThreadX.rc1	PTCRB / GCF approved
RC76xx_Release7_SIERRA_R2C_7611.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m5.ThreadX.rc1	R2C approved
RC76xx_Release7_VERIZON_7611.exe	Verizon	SWI9X07H_00.03.03.01	001.040_000	20.03.0.m5.ThreadX.rc1	Verizon approved
RC76xx_Release7_TMO_7611.exe	TMO	SWI9X07H_00.03.03.00	001.024_000	20.03.0.m5.ThreadX.rc1	TMO approved
RC7620/RC7620-1 Approved package					
RC76xx_Release7_GENERIC_GCF_7620.exe	Generic (GCF)	SWI9X07H_00.03.03.00	001.043_000	20.03.0.m5.ThreadX.rc1	GCF approved
RC76xx_Release7_SIERRA_R2C_7620.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m5.ThreadX.rc1	R2C approved
RC7630/RC7630-1 Approved package					
RC76xx_Release7_GENERIC_GCF_7630.exe	Generic (GCF)	SWI9X07H_00.04.05.00	001.061_000	20.03.0.m5.ThreadX.rc1	GCF approved
RC7630/RC7630-1 Approval pending package					
RC76xx_Release7_SIERRA_test.exe	Sierra	SWI9X07H_00.06.05.01	000.046_000	20.03.0.m5.ThreadX.rc1	test
RC76xx_Release7_DOCOMO_test.exe	DOCOMO	SWI9X07H_00.06.05.01	001.008_000	20.03.0.m5.ThreadX.rc1	test
RC76xx_Release7_KDDI_test.exe	KDDI	SWI9X07H_00.06.05.01	001.010_000	20.03.0.m5.ThreadX.rc1	test

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.043_000.spk (RC7620 GCF) 9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.046_000.spk (RC7611 PTCRB / GCF) 9999999_9909693_SWI9X07H_00.03.03.00_00_ATT_001.040_000.spk (RC7611 ATT) 9999999_9909694_SWI9X07H_00.03.03.01_00_VERIZON_001.040_000.spk (RC7611 Verizon) 9999999_9909696_SWI9X07H_00.03.03.00_00_TMO_001.024_000.spk (RC7611 TMO) 9999999_9909717_SWI9X07H_00.03.03.00_00_SIERRA_000.027_000.spk (RC7611/RC7620 R2C) 9999999_9909667_SWI9X07H_00.04.05.00_00_GENERIC_001.061_000.spk (RC7630 GCF) appl_20.03.0.m5.ThreadX.rc1.cwe
To be available in https://source.sierrawireless.com	

8.2 Software Changes Description

The following are changes in Release 7 since Release 6.2.

8.2.1 Generic

ID	Description	Affected Domain
QTI9X07TX-2767	Add QTI stack r00069.1 - Post-CS 0.0.069.1 to tx-1.0-swi	
QTI9X07TX-2787	Add QTI stack r00075.1 - Post-CS 0.0.075.1 to tx-1.0-swi	

8.2.2 Verizon

ID	Description	Affected Domain
QTI9X07TX-1909	[LwM2M][DTLS] Duplicated requests and no buffering in rehandshake	
QTI9X07TX-1910	[LwM2M][DTLS] Resume transmission immediately after peer connection closed due to decrypt-error alert	
QTI9X07TX-1930	[LwM2M][DTLS] Rehandshake upon decryption error on received packet	
QTI9X07TX-2928	Increment SVN on RC76 main branch to 16	

8.2.3 R2C

ID	Description	Affected Domain
QT19X07TX-2611	[R2C]Enabled NV 73764 in Sierra PRI	
QT19X07TX-2626	AT+KSIMSEL=30 to select Soft SIM	

8.2.4 DOCOMO

ID	Description	Affected Domain
QT19X07TX-2646	Enable SMS over IMS feature - DoCoMo	
QT19X07TX-2648	VoLte Support for Docomo	

8.2.5 KDDI

ID	Description	Affected Domain
QT19X07TX-2647	Enable SMS over IMS feature - KDDI	
QT19X07TX-2649	VoLte Support for KDDI	

9: SWI9X07H Release 6.2

Release 6.2 is a major release.

9.1 Software Release Description

9.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.03.03.00 2bb7a4 jenkins 2020/04/15 07:57:29
Legato Application Framework	20.03.0.m4.ThreadX.rc2
Binary Size	28.4 MB (compressed one-click exe)
IMEI SV	14
Qualcomm baseline	MDM9607.TX.1.0 Post-CS 0.0.064.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.064.1.275918.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

9.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQ504.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

9.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved					
RC76xx_Release6.2_ATT_7611.exe	ATT	SWI9X07H_00.03.03.00	001.040_000	20.03.0.m4.ThreadX.rc2	ATT approved
RC76xx_Release6.2_GENERIC_GCF_7611.exe	Generic	SWI9X07H_00.03.03.00	001.046_000	20.03.0.m4.ThreadX.rc2	PTCRB/GCF approved
RC76xx_Release6.2_SIERA_R2C_7611.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m4.ThreadX.rc2	R2C approved
RC76xx_Release6.2_VERIZON_7611.exe	Verizon	SWI9X07H_00.03.03.01	001.040_000	20.03.0.m4.ThreadX.rc2	Verizon approved
RC76xx_Release6.2_TMO_7611.exe	TMO	SWI9X07H_00.03.03.00	001.024_000	20.03.0.m4.ThreadX.rc2	TMO approved
RC7620/RC7620-1 Approved					
RC76xx_Release6.2_GENERIC_GCF_7620.exe	Generic	SWI9X07H_00.03.03.00	001.043_000	20.03.0.m4.ThreadX.rc2	GCF approved
RC76xx_Release6.2_SIERA_R2C_7620.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m4.ThreadX.rc2	R2C approved

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.043_000.spk (RC7620 GCF) 9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.046_000.spk (RC7611 PTCRB/GCF) 9999999_9909693_SWI9X07H_00.03.03.00_00_ATT_001.040_000.spk (RC7611 ATT) 9999999_9909694_SWI9X07H_00.03.03.01_00_VERIZON_001.040_000.spk (RC7611 Verizon) 9999999_9909696_SWI9X07H_00.03.03.00_00_TMO_001.024_000.spk (RC7611 TMO) 9999999_9909717_SWI9X07H_00.03.03.00_00_SIERRA_000.027_000.spk (RC7611/RC7620 R2C) appl_20.03.0.m4.ThreadX.rc2.cwe
To be available in https://source.sierrawireless.com	

9.2 Software Changes Description

The following are changes in Release 6.2 since Release 6.

9.2.1 R2C

ID	Description	Affected Domain
QT19X07TX-2355	RC7620 R6 : if SELRAT 01 , Synchronize with AVMS Failed	

10: SWI9X07H Release 6.1

Release 6.1 is a major release.

10.1 Software Release Description

10.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.03.03.01 707452 jenkins 2020/05/20 07:13:09
Legato Application Framework	20.03.0.m1.ThreadX.rc11
Binary Size	28.4 MB (compressed one-click exe)
IMEI SV	15
Qualcomm baseline	MDM9607.TX.1.0 Post-CS 0.0.064.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.064.1.275918.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

10.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQS04.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

10.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved/Pending					
RC76xx_Release6.1_VERIZON_7611.exe	Verizon	SWI9X07H_00.03.03.01	001.040_000	20.03.0.m1.ThreadX.rc11	Verizon approved
Test					
RC76xx_Release6.1_SIERRA_test.exe	Sierra	SWI9X07H_00.03.03.01	000.029_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_VERIZON_test.exe	Verizon	SWI9X07H_00.03.03.01	001.040_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_ATT_test.exe	ATT	SWI9X07H_00.03.03.01	001.043_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_SPRINT_test	SPRINT	SWI9X07H_00.03.03.01	001.026_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_TMO_test.exe	TMO	SWI9X07H_00.03.03.01	001.026_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_GENERIC_test.exe	Generic	SWI9X07H_00.03.03.01	001.050_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6.1_VODAFONE_test.exe	VODAFONE	SWI9X07H_00.03.03.01	000.024_000	20.03.0.m1.ThreadX.rc11	Test

Function	Files
Firmware components	9999999_9909694_SWI9X07H_00.03.03.01_00_VERIZON_001.040_000.spk
To be available in https://source.sierrawireless.com	

10.2 Software Changes Description

The following are changes in Release 6.1 since Release 6.

10.2.1 Verizon

ID	Description	Affected Domain
QT19X07TX-1789	Sync WP76XX modem_proc by cherry-pick	
QT19X07TX-1930	[LwM2M][DTLS] Rehandshake upon decryption error on received packet	
QT19X07TX-1933	Merge prod-wp76xx(cbf23012 to ac21d2a1)	
QT19X07TX-1940	Increment SVN on RC76 main branch to 15	

11: SWI9X07H Release 6

Release 6 is a major release.

11.1 Software Release Description

11.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.03.03.00 2bb7a4 jenkins 2020/04/15 07:57:29
Legato Application Framework	20.03.0.m1.ThreadX.rc11
Binary Size	29.1 MB (compressed one-click exe)
IMEI SV	14
Qualcomm baseline	MDM9607.TX.1.0 Post-CS 0.0.064.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.064.1.275918.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

11.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQ504.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

11.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved/Pending					
RC76xx_Release6_GENERIC_GCF_7611.exe	GENERIC (GCF)	SWI9X07H_00.03.03.00	001.046_000	20.03.0.m1.ThreadX.rc11	GCF approved
RC76xx_Release6_SIERRA_R2C_7611.exe	Sierra (R2C)	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m1.ThreadX.rc11	R2C approved
Test					
RC76xx_Release6_SIERRA_test.exe	Sierra	SWI9X07H_00.03.03.00	000.027_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_VERIZON_test.exe	Verizon	SWI9X07H_00.03.03.00	001.038_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_ATT_test.exe	ATT	SWI9X07H_00.03.03.00	001.040_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_SPRINT_test	SPRINT	SWI9X07H_00.03.03.00	001.023_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_TMO_test.exe	TMO	SWI9X07H_00.03.03.00	001.024_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_GENERIC_test.exe	Generic	SWI9X07H_00.03.03.00	001.046_000	20.03.0.m1.ThreadX.rc11	Test
RC76xx_Release6_VODAFONE_test.exe	VODAFONE	SWI9X07H_00.03.03.00	000.022_000	20.03.0.m1.ThreadX.rc11	Test

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.046_000.spk 9999999_9909717_SWI9X07H_00.03.03.00_00_SIERRA_000.027_000.spk
To be available in https://source.sierrawireless.com	

11.2 Software Changes Description

The following are changes in Release 6 since Release 5.

11.2.1 R2C

ID	Description	Affected Domain
QT19X07TX-1903	Using oneClick file , Module freezes on WDSS command until next manual Power OFF/ON	
QT19X07TX-1905	RC7620 R5B1 After FOTA the module doesn't connect server Airvantage	
QT19X07TX-1915	[AVMS][FOTA] AVMS command causes module freezes after FOTA and job status is failed	
QT19X07TX-1921	[AVMS][UPD] The module cannot start downloading package from the AVMS server automatically after initiating a connection for FOTA update job	

12: SWI9X07H Release 5

Release 5 is a major release.

12.1 Software Release Description

12.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.03.03.00 2bb7a4 jenkins 2020/04/15 07:57:29
Legato Application Framework	20.03.0.m1.ThreadX.rc7
Binary Size	29.1 MB (compressed one-click exe)
IMEI SV	14
Qualcomm baseline	MDM9607.TX.1.0 Post-CS 0.0.064.1
Qualcomm SBA	MDM9607.TX.1.0 Post-CS 0.0.064.1.275918.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

12.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQS04.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

12.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7611/RC7611-1 Approved/Pending					
RC76xx_Release5_ATT_7611.exe	ATT	SWI9X07H_00.03.03.00	001.040_000	20.03.0.m1.ThreadX.rc7	ATT approved
Test					
RC76xx_Release5_SIERRA_test.exe	Sierra	SWI9X07H_00.03.03.00	001.027_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_VERIZON_test.exe	Verizon	SWI9X07H_00.03.03.00	001.038_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_ATT_test.exe	ATT	SWI9X07H_00.03.03.00	001.040_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_SPRINT_test	SPRINT	SWI9X07H_00.03.03.00	001.023_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_TMO_test.exe	TMO	SWI9X07H_00.03.03.00	001.024_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_GENERIC_test.exe	Generic	SWI9X07H_00.03.03.00	001.046_000	20.03.0.m1.ThreadX.rc7	Test
RC76xx_Release5_VODAFONE_test.exe	VODAFONE	SWI9X07H_00.03.03.00	000.022_000	20.03.0.m1.ThreadX.rc7	Test

Function	Files
Firmware components	9999999_9909693_SWI9X07H_00.03.03.00_00_ATT_001.040_000.spk
To be available in https://source.sierrawireless.com	

12.2 Software Changes Description

The following are changes in Release 5 since Release 4.

12.2.1 R2C

ID	Description	Affected Domain
QTI9X07TX-1279	[AVMS] The value of some resources of the location object are not synchronized on AVMS server.	
QTI9X07TX-1820	[AVMS] RC7620 FOTA and Power Off during Download failed and no more FOTA can be done.	
QTI9X07TX-1280	[AVMS] The value of SMS Tx Counter and SMS Rx Counter are not synchronized on AVMS server.	
QTI9X07TX-1128	[AVMS][WDSI]The module re-initiates a bootstrap session after rebooting the module.	
QTI9X07TX-1373	[RC7620][AvMS] Module can't register the server right away.	

12.2.2 AT&T

ID	Description	Affected Domain
QTI9X07TX-1702	[RC7611][AT&T][AVL_DDR][10776 v19.3][LTE-BTR-1-8224][IMS as its usage setting is not expected]	
QTI9X07TX-1732	[RC7611][AT&T][AVL_DDR][10776 v19.3][LTE-BTR-1-8266][Data browsing did not work]	
QTI9X07TX-1734	[RC7611][AT&T][AVL_DDR][10776 v19.3][Defect#878220][LTE-BTR-1-7843][UE doesn't register within 8 mins]	
QTI9X07TX-1740	[RC7611][AT&T][AVL_DDR][10776 v19.3][Defect#878218][LTE-BTR-1-7907][Unable to Verify that the UE finds the performs Attach procedure on any cell except E-Cell-A]	
QTI9X07TX-1741	[RC7611][AT&T][AVL_DDR][10776 v19.3][Defect#878219][LTE-BTR-1-7930][no PING Replies have been received as Limit is 5 seconds]	
QTI9X07TX-1807	[RC7611][AT&T][AVL_DDR][10776 v19.3][Defect#878283][LTE-BTR-1529][UE capability is mismatch]	
QTI9X07TX-1822	[RC7611][AT&T][Defect#389708][10776 Pre-Lab Test Results - APTN test review – DDA LE-4. (LE-4 CR DVM)]	

13: SWI9X07H Release 4

Release 4 is a major release.

13.1 Software Release Description

13.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.03.03.00 2bb7a4 jenkins 2020/04/15 07:57:29
Legato Application Framework	20.03.0.m1.ThreadX.rc6
Binary Size	29.1 MB (compressed one-click exe)
IMEI SV	14
Qualcomm Stack Version	Post-CS 0.0.064.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

13.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQS04.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

13.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC7620 Approved					
RC76xx_Release4_GENERIC_GCF_7620.exe	GENERIC (GCF)	SWI9X07H_00.03.03.00	001.043_000	20.03.0.m1.ThreadX.rc6	GCF approved
Test					
RC76xx_Release4_SIERRA_test.exe	Sierra	SWI9X07H_00.03.03.00	001.024_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_VERIZON_test.exe	Verizon	SWI9X07H_00.03.03.00	001.035_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_ATT_test.exe	ATT	SWI9X07H_00.03.03.00	001.037_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_SPRINT_test	SPRINT	SWI9X07H_00.03.03.00	001.021_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_TMO_test.exe	TMO	SWI9X07H_00.03.03.00	001.022_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_GENERIC_test.exe	Generic	SWI9X07H_00.03.03.00	001.043_000	20.03.0.m1.ThreadX.rc6	Test
RC76xx_Release4_VODAFONE_test.exe	VODAFONE	SWI9X07H_00.03.03.00	000.019_000	20.03.0.m1.ThreadX.rc6	Test

Function	Files
Firmware components	9999999_9909667_SWI9X07H_00.03.03.00_00_GENERIC_001.043_000.spk
To be available in https://source.sierrawireless.com	

13.2 Software Changes Description

The following are changes in Release 4 since Release 2.

13.2.1 R2C

ID	Description	Affected Domain
QTI9X07TX-1439	AVMS claimed not implemented after FOTA succeed	
QTI9X07TX-1439	AVMS claimed not implemented after FOTA succeed	
QTI9X07TX-1469	AvMS related AT command will responds "NOT IMPLEMENTED" after upgrade from v2.08 to v2.11	

13.2.2 Verizon

ID	Description	Affected Domain
[QT19X07-4228]	[LWM2M] Add !DM command documentation with md files	
[QT19X07-4364]	LwM2M AT&T Initial skeleton and device tree support	
[QT19X07-4447]	LwM2M Move BootstrapConfigurationSetDefault to custom	
[QT19X07-4449]	LwM2M - Move paramStorage enums to custom	
[QT19X07-4455]	LwM2M Fix typo ApnConnetion as ApnConnection in various locations	
[QT19X07-4472]	LwM2M bootstrap inactive control when multiple bootstrap instances are defined	
[QT19X07-4472]	LwM2M bootstrap inactive control when multiple bootstrap instances are defined	
[QT19X07TX-1488]	[VZW][LWM2M][Diagnostic] Failed r/w (4/0/30000/1) & (4/0/30000/2)	
[QT19X07TX-1659]	[LwM2M] Update SWI API lwm2m_log_uri() argument uriP with const	
[QT19X07-4456]	LwM2M Move string debug functions to wakaama/core/utlis.c	

13.3 Known Issues

This section presents all known issues in this release.

ID	Description	Affected Domain
[QT19X07TX-1171]	[AVMS] FOTA download progress is very slow	

14: SWI9X07H Release 2 BP 8

Release 2 BP8 is a minor release from Release 2.

14.1 Software Release Description

14.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07H_00.02.18.00 1ce0ac jenkins 2020/03/11 03:56:19
Legato Application Framework	20.02.0.ThreadX.rc3
Binary Size	28.3 MB (compressed one-click exe)
IMEI SV	10
Qualcomm Stack Version	Post-CS 0.0.061.1.259087.1
Supported H/W	RC7611, RC7611-1, RC7620, RC7620-1

14.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B4956
Linux Drivers	S2.36N2.60
Linux SDK	SLQ504.00.23

Note: Download the following tools from <https://source.sierrawireless.com/>

14.1.3 Released Files

File	Carrier	Modem Firmware	Config	Base Legato System	Comment
RC76xx_Release2_SWI9X07H_00.02.18.00_ATT_test.exe	ATT	SWI9X07H_00.02.18.00	001.030_000	20.02.0.ThreadX.rc3	
RC76xx_Release2_SWI9X07H_00.02.18.00_VERIZON_test.exe	Verizon	SWI9X07H_00.02.18.00	001.027_000	20.02.0.ThreadX.rc3	
RC76xx_Release2_SWI9X07H_00.02.18.00_GENERIC_test.exe	Generic	SWI9X07H_00.02.18.00	001.035_000	20.02.0.ThreadX.rc3	

Function	Files
Firmware components	9999999_9909694_SWI9X07H_00.02.18.00_00_VERIZON_001.027_000.spk 9999999_9909693_SWI9X07H_00.02.18.00_00_ATT_001.030_000.spk 9999999_9909667_SWI9X07H_00.02.18.00_00_GENERIC_001.035_000.spk
To be available in https://source.sierrawireless.com	

14.2 Software Changes Description

The following are changes in Release 2 BP8 since Release 2.

ID	Description	Affected Domain
QT19X07TX-1115	Update TS.25 to 2020.Jan.06	
QT19X07TX-1201	AT!DMREAD does not return any data	
QT19X07TX-1264	The module will crash when write 5/0/1 package URL on module	
QT19X07TX-1246	AT!DMREAD="3/0/19" returns empty	
QT19X07TX-1472	[LWM2M] Fail to register to Verizon Repo server when MSISDN not ready	

A: Appendix

15.1 Abbreviations and Definitions

Abbreviation/Acronym	Definitions
AT	Access Terminal, Attention
EDL	Emergency Download
FDT	Firmware Download Tool
GCF	Global Certification Forum
PSM	Power Saving Mode
QMI	Qualcomm Messaging Interface
SDP	Software Download Protocol

15.2 Related Documentation

- AirPrime RC7611 Product Technical Specification
Reference number: 41113440
- AirPrime RC76xx AT Command Reference Guide
Reference number: 41113566
- AirPrime RC76xx Customer Release Notes (internal only)
Reference number: 41114005
- AirPrime RC76xx Customer Release Notes for Release 6.1
Reference number: 41113793
- AirPrime RC76xx Customer Release Notes for Release 6.2
Reference number: 41114091
- AirPrime RC76xx Customer Release Notes for Release 7.1
Reference number: 41114248
- Interface Specification for MDM9x07 AT Commands
Reference number: 41113399

15.3 Compatibility

15.3.1 Hardware Compatibility

AirPrime Compatibility List	
RC7611	LTE Cat-4, LTE bands 2/4/5/12/13/14/25/26/66/71
RC7611-1	LTE Cat-1, LTE bands 2/4/5/12/13/14/25/26/66/71
RC7620	LTE Cat-4, LTE bands 1/3/7/8/20/28(A+B) WCDMA bands 1/8, GSM900/1800
RC7620-1	LTE Cat-1, LTE bands 1/3/7/8/20/28(A+B) WCDMA bands 1/8, GSM900/1800
RC7630	LTE Cat-4, LTE bands 1/3/5/7/8/18/19/21
RC7630-1	LTE Cat-1, LTE bands 1/3/5/7/8/18/19/21