



# SWI9X30C 2.0

## Customer Release Notes

Document number	4117117
Rev	R01.23
Date	2015/03/12

# Document History

Rev XX.YY	Date YYYY/MM/DD	Updates	Author
01.00	2015/03/12	Creation	AV
01.01	2015/04/10	Added Release 4	AV
01.02	2015/05/20	Added Release 5	AV
01.03	2015/06/19	Added Release 6	AV
01.04	2015/07/24	Added Release 7	AV
01.05	2015/08/14	Added Release 8	AV
01.06	2015/09/18	Added Release 8.1	AV
01.07	2015/09/25	Added Release 9	AV
01.08	2015/11/06	Added Release 10	AV
01.09	2015/12/04	Added Release 10.1	AV
01.10	2015/12/09	Added Release 10.2	AV
01.11	2016/01/15	Added Release 11	AV
01.12	2016/02/12	Added Release 12	AV
01.13	2016/03/04	Removed Pre-commercial releases	AV
01.14	2016/03/15	Added Release 13	AV
01.15	2016/04/01	Added Release 14	AV/IM
01.16	2016/05/13	Added Release 15	AV
01.17	2016/05/27	Added Release 14.1	AV
01.18	2016/06/28	Added Release 16	AV
01.19	2016/10/14	Added Release 16.1, 16.2	IM
01.20	2016/11/07	Added Release 17	IM
01.21	2017/01/25	Added Release 18	IM
01.22	2017/04/28	Added Release 18.1	IM
01.23	2017/05/09	Added Release 18.2	IM

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Template #:	4124005	Revision:	03.07
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## 1 Introduction

### 1.1 Scope of this document

*This document describes changes in the SWI9X30C 2.0 line of firmware.*

### 1.2 Audience of this document

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

### 1.3 New Features / Enhancements

Feature	Description
See Individual Releases below.	

## 2 Abbreviations and definitions

Abbreviation/Acronym	Definitions
AT	Access Terminal, Attention
FOTA	Firmware Over The Air
FTM	Factory Test Mode
IMS	IP Multimedia Subsystem, Internet Multimedia System
IMSW	Image Switch
MBIM	Mobile Broadband Interface Model
OMA	Open Mobile Alliance
OMADM	OMA Device Management
OoS	Out of Service
PC	Power Control
PDN	Packet Data Network
QMI	Qualcomm MSM Interface, Qualcomm Modem Interface
SCTP	Stream Control Transmission Protocol
SMS	Short Message Service
WoWWAN	Wake on WWAN
UI	User Interface

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### 3 Related documentation

Ref. #	Doc. #	Document title

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## 4 Compatibility

### Hardware compatibility

Product compatibility list
EM7455
MC7455
EM7430
MC7430



## 5 SWI9X30C 2.0 Release 18.2

This section describes changes since the previous major release.

### 5.1 Software Release Description

#### 5.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.24.05.06
Application	SWI9X30C_02.24.05.06
Date of generation	2017/05/19 13:23:09 UTC
Binary Size	62.9 MB (compressed binary)
IMEI SV	12
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010189-STD.PROD-1
Supported H/W	EM7455, MC7455, EM7430, MC7430

#### 5.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	Build 4624	
Skylight	4670	
Linux QMI SDK	04.00.04	

#### 5.1.3 Released Files and Download Processes

Download Option	Files
CWE/NVU files	Firmware Package Build 4692

### 5.2 Software Changes Description

#### 5.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Affected Domain
QT19X30-2277	UE Fails to communicate with https: type Motive Server address	CR 2038259: Error in Qualcomm TLS library was causing an SSL handshake failure for some cipher suites when using TLS 1.2. Updated to new library	TLS
QT19X30-2308	LWM2M AVC session fails in some rare cases	In some rare cases, a small percentage of devices cannot connect to AirVantage	LWM2M
QT19X30-2303	CVE-2016-10229	Vulnerability in Linux kernel allowed code arbitrary code to be executed via UDP traffic <a href="https://nvd.nist.gov/vuln/detail/CVE-2016-10229">https://nvd.nist.gov/vuln/detail/CVE-2016-10229</a>	UDP
QT19X30-2298	Increment SVN to 12	Increment SVN to 12	SYSTEM

### 5.3 Known Issues

This section presents all known issues in this release.

ID	Title	Description	Impacted Domain
QT19X30-2222	LWM2M node 4.0.4	IP address displayed to AirVantage is one of the active addresses, but is not necessarily one used for AirVantage connectivity	LWM2M
QT19X30-2233	Galileo / Beidou & TTFF	Galileo and Beidou are not used for first fix. Those satellites are only used after location is obtained and determined to be outside of USA (regardless of AT!GNSSCONFIG setting)	GNSS
QT19X30-2254	Device does enter lowest-current state with UIM2 enabled and no SIM present	If UIM2 is enabled and a SIM is never inserted in SIM slot 2, the modem does not enter low-current state	SIM / SYSTEM

## 6 SWI9X30C 2.0 Release 18.1

This section describes changes since the previous major release.

### 6.1 Software Release Description

#### 6.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.24.05.03
Application	SWI9X30C_02.24.05.03
Date of generation	2017/04/28 20:24:22 UTC
Binary Size	62.9 MB (compressed binary)
IMEI SV	10
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010189-STD.PROD-1
Supported H/W	EM7455, MC7455, EM7430, MC7430

#### 6.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	Build 4624	
Skylight	4670	
Linux QMI SDK	04.00.04	

#### 6.1.3 Released Files and Download Processes

Download Option	Files
CWE/NVU files	Firmware Package Build 4685

### 6.2 Software Changes Description

#### 6.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Affected Domain
QT19X30-2265	IPv6 data over Wi-Fi tethering not working in Win 10	Devices connected to the Win 10 mobile hotspot feature were not receiving IPv6 address	RMNET
QT19X30-2279	Support for non-numeric character in SIM ICCID	Allow AT and QMI to read hex-digits in ICCID	AT/QMI
QT19X30-2239	Initial DHCP client lease status indications not occurring	Timing was causing host to not receive DHCP client indications	QMI
QT19X30-2285	Apply QCT patch for Code 10 or Code 43 after OS recovery	MBIM interface could not be re-opened if it was improperly closed during host OS recovery	MBIM

ID	Title	Description	Affected Domain
QT19X30-2295	Support for non-numeric character in SIM ICCID - MBIM fix	Error in QCT code was causing ICCIDs with hex characters to be truncated in VanUI	MBIM
QT19X30-2272	[AT&T] LTE-BTR-1-9893 - Device Initiated Detail Reporting upon non-FOTA update	Local firmware or PRI update would not be reported if the device took more than 30s to attach after update completed	OMA-DM
QT19X30-2260	Fix LWM2M UTC Offset when in western hemisphere	Sign error was occurring in UTC offset calculation for latitudes West of 0°	LWM2M
QT19X30-2293	Increment SVN to 10	Increment SVN to 10	SYSTEM

### 6.3 Known Issues

This section presents all known issues in this release.

ID	Title	Description	Impacted Domain
QT19X30-2222	LWM2M node 4.0.4	IP address displayed to AirVantage is one of the active addresses, but is not necessarily one used for AirVantage connectivity	LWM2M
QT19X30-2233	Galileo / Beidou & TTFF	Galileo and Beidou are not used for first fix. Those satellites are only used after location is obtained and determined to be outside of USA (regardless of AT!GNSSCONFIG setting)	GNSS
QT19X30-2254	Device does enter lowest-current state with UIM2 enabled and no SIM present	If UIM2 is enabled and a SIM is never inserted in SIM slot 2, the modem does not enter low-current state	SIM / SYSTEM
QT19X30-2277	UE Fails to communicate with https: type Motive Server address	Unable to connect to Motive server due to a bug in QCT TLS v1.2 library	TLS/SSL

## 7 SWI9X30C 2.0 Release 18

This section describes changes since the previous major release.

### 7.1 Software Release Description

#### 7.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.24.03.00
Application	SWI9X30C_02.24.03.00
Date of generation	2017/03/02 21:36:45 UTC
Binary Size	62.9 MB (compressed binary)
IMEI SV	9
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010189-STD.PROD-1
Supported HW	EM7455, MC7455, EM7430, MC7430

#### 7.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	Build 4624	
Skylight	TBD	
Linux QMI SDK	04.00.04	

#### 7.1.3 Released Files and Download Processes

Download Option	Files
CWE/NVU files	Build 4642 FW PRI Package

### 7.2 Software Changes Description

#### 7.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Affected Domain
QT19X30-2190 QT19X30-2174	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010189.1 to trunk	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010189-STD.PROD-1 - CR 846690, 846692: Added mutexing for Common Dec8 Allocation structure to fix a rare crash when 2 PDNs are active and idle	SYSTEM
QT19X30-2209	Increment SVN to 9	Per new external release	SYSTEM
QT19X30-2179	Improve image recovery logic to recognize un-mountable apps filesystem	Added logic to recover from "Stuck in QDL" symptom by rebuilding images when YAFFS file system corrupted by sudden power removal	FLASH

ID	Title	Description	Affected Domain
QT19X30-2183	VID/PID is changed to Generic SKU during S3/S4 stress test	Device provisioning could be lost if power removed while recovering from a file-system corruption	FLASH
QT19X30-2180	OMA-DM unable to process out of sequence concatenated WAP Bootstrap SMS	AT&T: OMA-DM client was not handling concatenated SMS if out of sequence	OMA-DM
QT19X30-2184	Device uses wrong 1226 Alert String for CIDC Step during the HFA sequence	Sprint: 1226 Alert String for HFA DC session was incorrect	OMA-DM
QT19X30-2189	Add optional support for WM8940 audio codec	Codec enabled for audio	AUDIO
QT19X30-2169	Unable to change from non-zero default SAR state to SAR state 0	SAR default value could not be modified over QMI if the value on start-up was non-zero	QMI
QT19X30-2232	Implement AVMS QMI messages for LWM2M configuration parameters	Added QMI objects to QMI_SWI_M2M_AVMS_GET/SET_SETTINGS	QMI / LWM2M
QT19X30-2196	Some modules could not enter or stay in USB suspend when used with USB 2.0 connection	Spurious interrupts caused by noise on unterminated USB3 lines would prevent device from entering low power state	USB
QT19X30-2199	Connection reset after USB selective suspend on Win7 with Intel USB Host	Spurious suspend interrupt was causing USB controller to interpret this as USB suspended	USB
QT19X30-2214	QCT patch for QT19X30-2199 prevents suspend on USB 2.0	QCT code provided to resolve QT19X30-2199 was preventing USB from suspending in USB 2.0 mode	USB
QT19X30-2206	Fix W_DISABLE2 dependency on GPSLPM for GPS auto-start	GPS session would not re-start after toggling W_DISABLE2 with GPS auto-start enabled unless the GPSLPM customization was enabled	GNSS
QT19X30-2228	Add DiagLogger Functionality	Enable DiagLogger support	DIAG
QT19X30-2243	Unlocked debug command allows printing of PSK and PSKID in QXDM logs	Public shared key and shared key ID were visible in QXDM logs	DIAG
QT19X30-2205	Add AT PRL support to query current PRL	Sprint requirement GTR-ATCMD-60027	AT / SIM
QT19X30-2204	Update TS.25 list	PTCRB requirement	PTCRB
QT19X30-2219	AVMS APN lost on upgrade from Release 14 to Release 16	AVMS APN was not persistent	NV

### 7.3 Known Issues

This section presents all known issues in this release.

ID	Title	Description	Impacted Domain
QT19X30-2222	LWM2M node 4.0.4	IP address displayed to AirVantage is one of the active addresses, but is not necessarily one used for AirVantage connectivity	LWM2M
QT19X30-2233	Galileo / Beidou & TTFF	Galileo and Beidou are not used for first fix. Those satellites are only used after location is obtained and determined to be outside of USA (regardless of AT!GNSSCONFIG setting)	GNSS



ID	Title	Description	Impacted Domain
QT19X30-2254	Device does enter lowest-current state with UIM2 enabled and no SIM present	If UIM2 is enabled and a SIM is never inserted in SIM slot 2, the modem does not enter low-current state	SIM / SYSTEM

## 8 SWI9X30C 2.0 Release 17

This section describes changes since the previous major release.

### 8.1 Software Release Description

#### 8.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.23.00.00
Application	SWI9X30C_02.23.00.00
Date of generation	2016/10/22 15:55:10 UTC
Binary Size	62.9 MB (compressed binary)
IMEI SV	8
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010179-STD.PROD-1
Supported HW	EM7455, MC7455, EM7430, MC7430

#### 8.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	B4595	
Skylight	B4527	
Linux QMI SDK	04.00.01	

#### 8.1.3 Released Files and Download Processes

Download Option	Files
CWE/NVU files	Build 4614 FW PRI Package

### 8.2 Software Changes Description

#### 8.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Impacted Domain
QT19X30-2144 QT19X30-2083 QT19X30-2008	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010179-STD.PROD-1	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010179-STD.PROD-1 - 921808 Added support for SSL TLS V1.2 in crypto secapi software - 1052946 Modem throws an error for PS_ATTACH request when mode preference is LTE only - 1046269 SSL handshake failure due to DSS AsyncSelect/De-select failure	SYSTEM
QT19X30-2057	Increment SVN to 8	Per new external release	SYSTEM



ID	Title	Description	Impacted Domain
QT19X30-2023	AT!BAND selection table not updated without device reset	Corrected AT!BAND to show newly added TDSCDMA only entries without UE reset	AT
QT19X30-2038	Reduce AT\$DEBUG? lock-level for Sprint	Reduced lock level to low	AT
QT19x30-2055	Add +CPINR functionality to EM74xx & MC74xx	Added AT+CPINR with a reduced set of PIN/PUK categories	AT
QT19X30-1890	AT!BCFWUPDATESTATUS occasionally returns 'UNKNOWN' when successful	Added positive reporting of update status to avoid the false "unknown"	AT/QMI
QT19X30-1892	Support multiple flash clients	Stability - file system lock is now acquired when accessing other non-EFS partitions	FLASH
QT19X30-1914	AT command to set application IF and password for GPS Fix requests	Verizon requirement - AT command added to set application ID and password to be included in SUPL start message for AGPS fixes	GNSS
QT19X30-2129	GNSS session terminated unexpectedly	Sierra internal GPS session ID was also used as the "all clients" ID. Changed to avoid conflict	GNSS
QT19X30-2126	Power removal during image switching may cause OEM PRI to be lost	Added tracking of switching progress to allow proper recovery if interrupted by power removal or device reset	IMSW
QT19X30-2024	Various updates to AirVantage Client	Sync-ed AirVantage client with the latest round of updates	LWM2M
QT19X30-2147	Update SO package to use TLS 1.2	Update Sierra sockets to use TLS 1.2	LWM2M
QT19X30-2154	AVMS empty registration payload	Change in AVMS to prevent an empty payload from being sent	LWM2M
QT19X30-2032	MBB adapter missing after short sleep/resume cycles	Stability – handle occasional MBIM control packets dropped during USB suspend	MBIM
QT19X30-2153	Network operator name truncated in GetHomeNetwork	Fixed problem where encoding was not taken into account in determining network name length	QMI
QT19X30-1855	Add QMI object to query Secondary Cell RSSI in LTE Carrier Aggregation	Added QMI_NAS_SWI_GET_LTE_SCC_RX_INFO object to query Secondary Cell RSSI in LTE CA.	QMI
QT19X30-1987	QMI indication to report timer values	Added QMI indication QMI_NAS_SWI_NETWORK_TIMERS_IND to report T3396 value when assigned by network	QMI
QT19X30-1836	Enable support in QMI for DHCPv4 lease change indication registration status	Final stage of support for QMI_WDS_SWI_GET_DHCPV4_CLIENT_CONFIG_REQ	QMI
QT19X30-2145	Internet Access fails After Reboot and Reconnect	Applied Qualcomm patch to clear data port after a failed resume	USB

### 8.3 Known Issues

This section presents all known issues in this release.

ID	Title	Description	Impacted Domain
QT19X30-2219	Upgrade from R14 to R16 : The APN set in WDSS is lost	APN set in WDSS is lost on upgrade because global persistence attribute is not set	LWM2M
QT19X30-2222	LWM2M node 4.0.4	IP address displayed to AirVantage is one of the active addresses, but is not necessarily one used for AirVantage connectivity	LWM2M

## 9 SWI9X30C 2.0 Release 16.2

This section describes changes since the previous major release.

### 9.1 Software Release Description

#### 9.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.20.03.22
Application	SWI9X30C_02.20.03.22
Date of generation	2016/10/11 16:03:14
Binary Size	62.9MB (compressed binary)
IMEI SV	6
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010157.1.72754.1-STD.PROD-1
Supported H/W	EM7455, MC7455, EM7430, MC7430

#### 9.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	B4539	
Skylight	B4527	
Linux QMI SDK	04.00.02	

#### 9.1.3 Released Files and Download Processes

Download Option	Files
CWE/NVU files	Build4604 FW PRI Package

### 9.2 Software Changes Description

#### 9.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Impacted Domain
QT19X30-2129	Update Sierra internal session ID for GPS	Sierra internal session ID to end all GPS sessions was also used by Qualcomm, causing sessions to be unexpectedly ended	GPS
QT19X30-2096	Verizon B4 RF_RRM Failing TC 8.3.3 FDD	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010157.1.72754.1 - CR 878564: Deep sleep between gaps occasionally causes RSRP overestimation	LTE

ID	Title	Description	Impacted Domain
QT19X30-2126	Power removal during image switching may prevent OEM PRI settings from being restored	Power removal at a key point during switching could prevent persistent settings from being properly restored after the image switch completes	IMSW

### 9.3 Known Issues

This section presents all known issues in this release.

ID	Title	Description	Impacted Domain
QT19X30-2219	Upgrade from R14 to R16 : The APN set in WDSS is lost	APN set in WDSS is lost on upgrade because global persistence attribute is not set	LWM2M
QT19X30-2222	LWM2M node 4.0.4	IP address displayed to AirVantage is one of the active addresses, but is not necessarily one used for AirVantage connectivity	LWM2M

## 10 SWI9X30C 2.0 Release 16.1

This section describes changes since the previous major release.

### 10.1 Software Release Description

#### 10.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.20.03.21
Application	SWI9X30C_02.20.03.21
Date of generation	2016/10/03 16:07:57
Binary Size	62.9MB (compressed binary)
IMEI SV	6
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010157-STD.PROD-1
Supported H/W	EM7455, MC7455, EM7430, MC7430

#### 10.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	B4539	
Skylight	B4527	
Linux QMI SDK	04.00.02	

#### 10.1.3 Released Files and Download Processes

Download Option	Files
CWE/NVU files	Build4604 FW PRI Package

### 10.2 Software Changes Description

#### 10.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Impacted Domain
QT19X30-2066	MC7455 is unable to attach	Qualcomm patch to fix incorrect handling of overflow byte in NAS UL count - CR 1067871: NAS is reading wrong overflow value from SIM	NAS

#### 10.3 Known Issues

This section presents all known issues in this release.



ID	Title	Description	Impacted Domain
QT19X30-2219	Upgrade from R14 to R16 : The APN set in WDSS is lost	APN set in WDSS is lost on upgrade because global persistence attribute is not set	LWM2M
QT19X30-2222	LWM2M node 4.0.4	IP address displayed to AirVantage is one of the active addresses, but is not necessarily one used for AirVantage connectivity	LWM2M

## 11 SWI9X30C 2.0 Release 16

This section describes changes since the previous major release.

### 11.1 Software Release Description

#### 11.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.20.03.00
Application	SWI9X30C_02.20.03.00
Date of generation	2016/06/30 10:54:05
Binary Size	61.3MB (compressed binary)
IMEI SV	6
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010157-STD.PROD-1
Supported H/W	EM7455, MC7455, EM7430, MC7430

#### 11.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	B4539	
Skylight	B4527	
Linux QMI SDK	03.03.17	

#### 11.1.3 Released Files and Download Processes

Download Option	Files
Windows	B4539 Driver Installer
CWE/NVU files	Build4541 FW PRI Package

### 11.2 Software Changes Description

#### 11.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Impacted Domain
QT19X30-1960 QT19X30-1919 QT19X30-1927 QT19X30-1826 QT19X30-1601	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010157-STD.PROD-1	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010157-STD.PROD-1 - CR 1021920: Incorrect SV IDs in GPGSA & GNGSA - CR 878306: UE not sending measurement reports on B29 in some cases. - CR 852452: TLS 1.1 failing on some sites - CR 1017623: Unresponsive AT port after FW upgrade stress test - CR 988901: AT!GSTATUS reports TX power out of range during Live Network Connection	SYSTEM
QT19X30-1847	AT!GSTATUS	Updated AT!GSTATUS to report last cached WCDMA RSSI. Otherwise, 0 would be reported in IDLE state	AT
QT19X30-1912	SINGLE APN SWITCH	Do not initiate SINGLEAPNSWITCH if nothing was modified on a profile update	DATA
QT19X30-1864	Image Recovery	Improved recovery from corrupt APPS image	FLASH
QT19X30-1907	Modem crash after starting GNSS session	If the NMEA port is not opened, and a GNSS session is started via AT commands or AUTOSTART on Power up; the module will crash after 1 hour	GNSS
QT19X30-1879	AUTO-SIM feature	In some cases, the modem failed to reset when changing SIMs	IMSW
QT19X30-1885	Image Switch in LPM	Image Switch was failing if W_DISABLE was asserted	IMSW
QT19X30-1228	AVMS Session on reset	In some cases, UE was not starting an AVMS session on reset	LWM2M
QT19X30-1908	Update LWM2M and OMADM to use TLS 1.1	Update LWM2M and OMADM to use TLS 1.1	LWM2M / OMADM
QT19X30-1964	GetHomePLMN SDK API	GetHomePLMN does not return MCC and MNC immediately after bootup	QMI
QT19X30-1887	Sprint HFA	UE should not open a channel with the SIM if HFA fails	SIM
QT19X30-1258	Unresponsive AT port	Fixed memory leak for QMI indications that was causing the AT port to become unresponsive	USB
QT19X30-95	USB 2.0 operation	Added feature to force the module to use USB 2.0	USB
QT19X30-1054 QT19X30-1939	Improved USB stability	Improved USB stability in long term stress tests	USB

### 11.3 Known Issues

This section presents all known issues in this release.

ID	Title	Description	Impacted Domain
QT19X30-2219	Upgrade from R14 to R16 : The APN set in WDSS is lost	APN set in WDSS is lost on upgrade because global persistence attribute is not set	LWM2M
QT19X30-2222	LWM2M node 4.0.4	IP address displayed to AirVantage is one of the active addresses, but is not necessarily one used for AirVantage connectivity	LWM2M

## 12 SWI9X30C 2.0 Release 15

This section describes changes since the previous major release.

### 12.1 Software Release Description

#### 12.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.18.02.00
Application	SWI9X30C_02.18.02.00
Date of generation	2016/05/18 15:55:46
Binary Size	61.3MB (compressed binary)
IMEI SV	6
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010149-STD.PROD-1
Supported H/W	EM7455, MC7455, EM7430, MC7430

#### 12.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	B4518	
Skylight	B4507	
Linux QMI SDK	03.03.16	

#### 12.1.3 Released Files and Download Processes

Download Option	Files
Windows	B4518 Driver Installer
CWE/NVU files	Build4517 FW PRI Package

### 12.2 Software Changes Description

#### 12.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.



ID	Title	Description	Impacted Domain
91276	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010149-STD.PROD-1	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010149-STD.PROD-1 - CR932678 / 944577: Improved device stability in long term testing. - CR1003876: Fixed crash in QIM_LOC_GET_AVAILABLE_WWAN_POSITION - CR874564: FW crash due to serving cell measurement request received/processed late - CR746175: Random Crashes were observed when Profile operations were carried out - CR988699: Don't allow to perform Ephemeris/Almanac deletion in EFS when SV bit mask is empty - CR996227: MSB E911 Sessions may be delayed when initiated during an on-going GNSS Aptracking Session (ME part) - CR958163: Device can only track fewer than expected Glonass measurements in hot start testing	SYSTEM
90093	Added support for AT+CESQ	Added support for AT+CESQ	AT
84905	Thermal Mitigation AT command	Added AT command to get Thermal Mitigation status	AT
90921	AT!GSTATUS reports incorrect SCell Diversity RSRP value	Updated AT!GSTATUS to report correct SCell Diversity RSRP value	AT
89771	AT^SYSINFO shows roaming	AT^SYSINFO shows roaming when no SIM is installed	AT
90676	SCTP	Added support for SCTP filtering	DATA
89235	DHCPv4 Client Configuration and Lease Status	Added QMI_WDS_SWI_GET_DHCPV4_CLIENT_CONFIG, AT!SCDHCPHWCONFIG, and AT!SCDHCPOPTIONS	DHCP / QMI / AT
89722	TS.25 list	Update TS.25 list in FW to April 18 <sup>th</sup> , 2016	GCF / PTCRB
91255	gpsOneXTRA crash	Fixed modem crash if gpsOneXTRA is enabled and server is inaccessible. Seen on test equipment not connected to the internet.	GNSS
90496	Null characters in NMEA stream	Removed Null characters in NMEA stream	GNSS
89376	Galileo NMEA sentences	Add support for Galileo NMEA sentences	GNSS
90244	OTDOA	Enabled OTDOA by default	GNSS
90677	Sprint HFA	Fixed issue where HFA is run multiple times with an unpaired SIM	OMADM
88314	OMADM FOTA	Fixed crash during FOTA over OMADM	OMADM
91659	Power Off PIN (Full_Card_Power_Off)	On EM modules, if the Power Loss SMS/Detach feature is enabled, the Full_Card_Power_Off PIN is ignored	PC
89621	Corrected temperature state reported over QMI	Temperature level is being reported as critical warning instead of normal	QMI
90811	Corrected QMI OMADMGetSettings TLV 0x12	OMADMGetSettings TLV 0x12 is using the wrong length: 2 bytes. Corrected to use 1 byte as per Specification	QMI
91061	Add QMI NAS band masks for B28, B29, B30	Add QMI NAS band masks for B28, B29, B30	QMI

Template #:	4124005	Revision:	03.07
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ID	Title	Description	Impacted Domain
90398	QMI_SWIOMA_DM_SESSION_START	FUMO session started with QMI_SWIOMA_DM_SESSION_START will not respond on some error scenarios	QMI
89775	QMI_GET_STORED_IMAGES	QMI_GET_STORED_IMAGES reports incorrect running image if AUTO-SIM feature is enabled	QMI
90373	IP Address not returned to host if network doesn't provide DNS address	IP Address not returned to host if network doesn't provide DNS address	QMI
90399 / 90423	QMI_SWIOMA_DM_SET_SETTINGS	Improved sanity checking of parameters in QMI request	QMI
89719	MTU reported by network	Fixed issue where the MTU stored in NV is ignored if the network reports an MTU size of 1500. Now the smaller of the NV or Network setting will be reported over QMI/MBIM	QMI / MBIM
90341	Sprint PIN1	Disable the ability to Enable/Disable PIN1 for Sprint	SIM
90294	Sprint RTN	Added support to call Reset Applet on SIM during RTN	SIM
91660	OMADM WAP Push SMS	Do not forward OMADM WAP Push SMS to host	SMS
89562	Fastboot	Added timeout to exit Fastboot after 10 seconds	USB

### 12.3 Known Issues

This section presents all known issues in this release.

ID	Title	Description	Impacted Domain

## 13 SWI9X30C 2.0 Release 14.1

This section describes changes since the previous major release.

### 13.1 Software Release Description

#### 13.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.14.03.02
Application	SWI9X30C_02.14.03.02
Date of generation	2016/04/27 11:42:07
Binary Size	61.3MB (compressed binary)
IMEI SV	6
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010130-STD.PROD-1
Supported H/W	EM7455, MC7455, EM7430, MC7430

#### 13.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	B4518	
Skylight	B4477	
Linux QMI SDK	03.03.15	

#### 13.1.3 Released Files and Download Processes

Download Option	Files
Windows	B4518 Driver Installer
CWE/NVU files	Build4517 FW PRI Package

### 13.2 Software Changes Description

#### 13.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Impacted Domain
90677	Sprint HFA	Fixed issue where HFA is run multiple times with an unpaired SIM	OMADM
90294	Sprint RTN	Added support to call Reset Applet on SIM during RTN	SIM

#### 13.3 aKnown Issues

This section presents all known issues in this release.



ID	Title	Description	Impacted Domain

Template #:	4124005	Revision:	03.07
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## 14 SWI9X30C 2.0 Release 14

This section describes changes since the previous major release.

### 14.1 Software Release Description

#### 14.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.14.03.00
Application	SWI9X30C_02.14.03.00
Date of generation	2016/03/28 14:34:14
Binary Size	61.3MB (compressed binary)
IMEI SV	6
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010130-STD.PROD-1
Supported H/W	EM7455, MC7455, EM7430, MC7430

#### 14.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	B4492	
Skylight	B4477	
Linux QMI SDK	03.03.15	

#### 14.1.3 Released Files and Download Processes

Download Option	Files
Windows	B4492 Driver Installer
CWE/NVU files	Build4490 FW PRI Package

### 14.2 Software Changes Description

#### 14.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Impacted Domain
89985	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010130-STD.PROD-1	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010130-STD.PROD-1: - CR 848684, 859452: Cannot activate LTE-CA in certain scenarios - CR 916525: UE fails reselection when serving cell is not provided with a dedicated priority - CR 826809: BIP doesn't work in a DUAL SIM device set to single standby	SYSTEM
89903	Module crash with AT+CPBR=1	Module crashes after repeatedly issuing: AT+CPBR=1	AT

ID	Title	Description	Impacted Domain
89557	Data Connection on Windows 10	Changing "IP TYPE" via Windows 10 UI does not take effect with SINGLEAPN	DATA
89666	Image Switching enhancement	Fixed issue when switching images for carriers that span multiple countries.	IMSW
90095	LED blink pattern glitches	Fixed LED blink pattern glitches	LED
89725	LED Blink Pattern	LED not working with Roaming SIM, and coming out of AT+CFUN=0	LED
90089	FOTA Update	Fixed FOTA update for Sprint	LWM2M / FOTA
87674	Embedded Device type	Added support for Embedded Device type for MBIM	MBIM
88840	Sprint SPA OMADM	Add Sprint SPA OMADM Nodes	OMADM
89948	Increase IMEI SV	Increased IMEI SV to 6	PTCRB
85036	TDSCDMA SAR configuration	Add ability to configure TDSCDMA SAR via AT and QMI commands	RF
89611	Transmitter ON GPIO support	Add support for TX ON status via GPIO	RF
89812	Antenna Selection	Fixed external antenna selection lines for MC	RF
89808	Wake on WWAN PIN	Wake on WWAN PIN was turning on for longer than configured value.	WoWWAN

### 14.3 Known Issues

This section presents all known issues in this release.

ID	Title	Description	Impacted Domain



## 15 SWI9X30C 2.0 Release 13

This section describes changes since the previous major release.

### 15.1 Software Release Description

#### 15.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.13.01.00
Application	SWI9X30C_02.13.01.00
Date of generation	2016/03/07 21:28:34
Binary Size	61.3MB (compressed binary)
IMEI SV	5
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010127-STD.PROD-1
Supported HW	EM7455, MC7455, EM7430, MC7430

#### 15.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	B4473	
Skylight	B4477	
Linux QMI SDK	03.03.15	

#### 15.1.3 Released Files and Download Processes

Download Option	Files
Windows	B4473 Driver Installer
CWE/NVU files	Build4481 FW PRI Package

### 15.2 Software Changes Description

#### 15.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Impacted Domain
89474	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010127-STD.PROD-1	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010127-STD.PROD-1: - CR 881101: Restoring LTE band values back to defaults if RRC message does not contain band info - CR 842022: Added support for BCS-1 for 7+28 CA combo - CR 843496: Fixed crash during MO OTDOA positioning	SYSTEM

ID	Title	Description	Impacted Domain
89025	Update AT!SEL RAT and AT!BAND	Update AT!SEL RAT and AT!BAND for TDSCDMA	AT
88669	DHCPv4 Client Configuration and Lease Status	Add support for DHCPv4 Client Configuration and Lease Status	DHCP / QMI
85533	NMEA output rate	In USB 3.0, fixed an issue where NMEA sentences would not be reported if the output rate was set to more than 5 seconds.	GNSS
87475	AT!GPSCOLDSTART	End all GPS sessions if AT!GPSCOLDSTART is entered	GNSS
88357	FW SIM based image switching	FW SIM based image switching not working for PIN locked SIMs	IMSW
87187	AT+LED	[Sprint] Add support for AT+LED	LED / AT
89137	LED Configurability	Add support for LED Configurability	LED
85666	AirVantage LWM2M Objects	Added support for AirVantage LWM2M Reset Counters	LWM2M
87452 / 87453	Add Sprint OMADM features	Add Sprint OMADM features	OMADM
88716	OMADM FOTA	Added support for OMADM FOTA	OMADM
89233 / 88363	Power loss SMS and Detach	Improvements to Power Loss SMS and Detach feature	PC
85798	Add QMI object to indicate a reboot is pending	Added QMI_DMS_SWI_GET_RESET_INFO	QMI
88674	USB Stability	Improved USB Stability over long term reset test	USB
86639	Improve USB Enumeration time	Improve USB Enumeration time by 2 seconds	USB

### 15.3 Known Issues

This section presents all known issues in this release.

ID	Title	Description	Impacted Domain
89812	Antenna Selection	External Antenna Selection lines not working for MC products	RF



## 16 SWI9X30C 2.0 Release 12

This section describes changes since the previous major release.

### 16.1 Software Release Description

#### 16.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.11.03.00
Application	SWI9X30C_02.11.03.00
Date of generation	2016/02/09 13:51:57
Binary Size	61.2MB (compressed binary)
IMEI SV	5
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010120-STD.PROD-1
Supported H/W	EM7455, MC7455, EM7430, MC7430

#### 16.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	B4452	
Skylight	B4432	
Linux QMI SDK	03.03.14	

#### 16.1.3 Released Files and Download Processes

Download Option	Files
Windows	B4452 Driver Installer
CWE/NVU files	Build4455 FW PRI Package

### 16.2 Software Changes Description

#### 16.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Impacted Domain
88366	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010120-STD.PROD-1	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010120-STD.PROD-1: - CR 955594: Fixed data transfer issue when using 2 RMNET interfaces. - CR 938261: [GCF] Fix for LTE-RRM case 8.3.3 - CR 902412: SIM is being powered down when upon receiving an invalid APDU in ICC mode for SELECT command - CR 951450: In certain scenarios fixed AT and NMEA indications when USB is suspended	SYSTEM
87891 / 88123	Improve reset sequence	Improve reliability of reset sequence observed during long term testing	SYSTEM
88000	Increase IMEI SV	Increased IMEI SV to 5	PTCRB
86959	Modem crash after AT&V command	Modem crash after AT&V command	AT
87189 / 83539 / 87188 / 87191 / 87186	Sprint AT commands	Add support for Sprint AT commands	AT
84394	Update AT!SELRAT	Add TDSCDMA support for AT!SELRAT	AT
87584	Fixed AT!GPSLBSAPN	AT!GPSLBSAPN was not taking affect	AT
85577	FTM TX power configuration in WCDMA and LTE	Add support for FTM TX power configuration in WCDMA and LTE	FTM
85477	Update gpsOneXTRA HTTP request	Update gpsOneXTRA HTTP header to comply with Qualcomm's guidance.	GNSS
82401	Restart GPS Session when transitioning from LPM to ONLINE	If NMEA port is open, restart GPS Session when transitioning from LPM to ONLINE	GNSS
83612	Image Switching enhancement	Add support to carriers that span multiple countries.	IMSW
85718	Image Switching enhancement	Modem resets twice when upgrading FW+PRI and the target firmware is already available in the modem	IMSW
88079 / 87738 / 79089	LED Enhancements	Add support for LED blink patterns.	LED
88310	Update revision string to include Carrier PRI for AirVantage LWM2M	Update revision string to include Carrier PRI for AirVantage LWM2M	LWM2M
86584	Add support for AirVantage LWM2M QMI messages	Add support for AirVantage LWM2M QMI messages	LWM2M
87670 / 87263	Fixed FOTA update failure	Fixed FOTA update via LWM2M	LWM2M / FOTA
88001	OMADM SyncML Message update	Add TargetRef field to SyncML message for Verizon	OMADM
85125	Sprint OMADM	Add support for Sprint OMADM	OMADM
87802	Add support for OMA polling	Add support for OMA polling	OMADM
85610	Power down SMS	Add support to send an SMS when power failure is reported by host through W_DISABLE Pin	PC

ID	Title	Description	Impacted Domain
88362	UE incorrectly release existing PDP Context	On a Windows platform, the UE releases the existing PDP Context when going OoS within 30 seconds.	PDN
88407	Update QMI_NAS_GET_LTE_CPHY_CA_INFO	Bands 28, 29, 30 and 32 are not correctly reported in QMI_NAS_GET_LTE_CPHY_CA_INFO	QMI
87283	Update QMI_NAS_SWI_MODEM_STATUS	LTE band 28 is incorrectly reported in QMI_NAS_SWI_MODEM_STATUS as 45	QMI
87725	LTE B41 Attach failure	Observed attach failures in low signal environment for LTE B41	RF
87403	Improved signal strength reporting	Improved signal strength reporting to the host	UI

### 16.3 Known Issues

This section presents all known issues in this release.

ID	Title	Description	Impacted Domain

## 17 SWI9X30C 2.0 Release 11

This section describes changes since the previous major release.

### 17.1 Software Release Description

#### 17.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.08.02.00
Application	SWI9X30C_02.08.02.00
Date of generation	2016/01/06 20:38:53
Binary Size	61.2MB (compressed binary)
IMEI SV	4
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010114-STD.PROD-1
Supported H/W	EM7455, MC7455, EM7430, MC7430

#### 17.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	B4437	
Skylight	B4429	
Linux QMI SDK	03.03.13	

#### 17.1.3 Released Files and Download Processes

Download Option	Files
Windows	B4437 Driver Installer
CWE/NVU files	Build4440 FW PRI Package

### 17.2 Software Changes Description

#### 17.2.1 Validated Corrections / Improvements

This section presents all corrections or improvements integrated in this release.

ID	Title	Description	Impacted Domain
87356	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010114-STD.PROD-1	Add Qualcomm Stack MDM9635M.LE.3.0.c2-000010114-STD.PROD-1: - CR 949351 / 949619: USB Stability fixes - CR 791775, 922988, 929557, 823043, 860163: Critical AT&T CRs - CR 834408, 809321: [GCF] LTE-RRM case 4.2.2 - CR 946862: Verizon OMADM issue - CR 837757: Improved device stability in very long term power cycle stress testing. - CR 806781: Fixed crash if AT commands are entered immediately after power up.	SYSTEM
86579	Increase IMEI SV	Increased IMEI SV to 4	PTCRB
84544	SINGLEAPN feature	Added support for Sierra Wireless SINGLEAPN feature	DATA
85663 / 85664 / 85665 / 85662	AirVantage LWM2M Objects	Added support for various AirVantage LWM2M Objects	LWM2M
85616	MO SMS	Unable to send MO SMS if Dual SIM is enabled	SMS
84112	GNSS Reference location	Add support to report Cell Tower Reference Location if a location is not available via satellites	GNSS
82659	GPS_DISABLE PIN	Add support for the GPS_DISABLE PIN (W_DISABLE#2) to stop GPS sessions started over QMI	GNSS
82070	AT!GPSSATINFO	Update AT!GPSSATINFO to include Beidou and Galileo	GNSS / AT
85931	AT!GSTATUS	Update AT!GSTATUS to correctly report status of Carrier Aggregation when SCC is configured but not active	AT
85533 / 85533 / 86397	AT and NMEA port indications	Fixed issue where unsolicited notifications would sometimes not be delivered over the AT or NMEA port for USB 2.0, if the port was idle for greater than 5 seconds.	AT / NMEA
86674	TS.25 list	Update TS.25 list in FW to 2015/11/30	GCF / PTCRB
84520	MBIM_CID_DEVICE_CAPS	Added the ability to configure the Device Type in the MBIM_CID_DEVICE_CAPS response	MBIM
82166	LTE Reject cause over QMI	Update QMI_NAS_NETWORK_REJECT_IND to report reject cause: ESM Failure	QMI
84187	QMI_QOS_SWI_READ_DATA_STAT S TX	Fixed packet and TX packet drop counters	QMI
86541	USB 2.0	If USB 2.0 is detected, USB 3.0 support will not be included in the USB Descriptor	USB

### 17.3 Known Issues

This section presents all known issues in this release.



ID	Title	Description	Impacted Domain
85533	NMEA output rate	NMEA output rate greater than 5 seconds is not supported on USB 3.0	GNSS
85718	Image Switching	The Linux SDK will report an image switch failure when only the Carrier PRI needs to be downloaded. The image switch is successful	Linux SDK

## 18 SWI9X30C 2.0 Release 10.2

This section describes changes since the previous major release.

### 18.1 Software Release Description

#### 18.1.1 Release identification

Component	Revision
Boot loader	SWI9X30C_02.05.07.00
Application	SWI9X30C_02.05.07.00
Date of generation	2015/12/04 22:23:15
Binary Size	61.2MB (compressed binary)
IMEI SV	3
Qualcomm Stack Version	MDM9635M.LE.3.0.c2-000010108-STD.PROD-1
Supported H/W	EM7455, MC7455, EM7430, MC7430

#### 18.1.2 Software Tools Versions

S/W Tools Name	Version	Resource file
Windows Driver Package	B4427	
Skylight	B4405	
Linux QMI SDK	03.03.12	

#### 18.1.3 Released Files and Download Processes

Download Option	Files
Windows	B4427 Driver Installer
CWE/NVU files	Build4426 FW PRI Package

### 18.2 Software Changes Description

#### 18.2.1 Validated Corrections / Improvements

N/A (initial commercial release).

### 18.3 Known Issues

This section presents all known issues in this release.

ID	Title	Description	Impacted Domain
83752 / 83753 / 83754	USB Stability	In rare instances, module may disappear from Windows Device Manager after long term testing on some platforms.	USB



ID	Title	Description	Impacted Domain
85533	NMEA output rate	NMEA output rate greater than 5 seconds is not supported	GNSS



## 19 Troubleshooting

Please contact customer service for support and debug

## 20 Certification Description

None

## 21 Restrictions and Additional Information

This section presents additional information or restrictions that must be taken into account.

ID	Description (What/When)	Impacted Domain