



Customer Release Note

Linux QMI SDK 03.03.07



SIERRA
WIRELESS®

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Consult our website for up-to-date product descriptions, documentation, application notes, firmware upgrades, troubleshooting tips, and press releases: www.sierrawireless.com

Document History

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1. Introduction

1.1. Document Scope

This document describes the content of the Linux QMI SDK 03.03.07 release.

1.2. Document Audience

This release note may be distributed to all direct and indirect customers.

1.3. New Features/Enhancements

Table 1. New Features/Enhancements

Feature	Description
LOC	Added LOC api & callback for positioning The modem need to switch from PDS to LOC with AT command below: at!entercmd="A710" at!gpsqmicomfig=1



2. Abbreviations and Definitions

Table 2. Abbreviations and Definitions

Abbreviation/Acronym	Definitions
MSM	Mobile Station Modem
PRI	Product Release Instructions
QMI	Qualcomm MSM Interface
SLQS	Sierra Linux QMI SDK
WP	Work Package



3. Related Documentation

Table 3. Related Documentation

Ref. #	Doc. #	Document title
[R-1]	4110914	Linux QMI SDK Application Developer's Guide

>> 4. Compatibility

Table 4. Hardware Compatibility

Devices Compatibility List
AR7554
EM73xx
MC73xx
MC77xx
MC78xx
MC83x5
MC9090
SL9090
WP71xx
EM7455

Note: MC77xx devices must operate in "QMI Mode" and not in "Direct-IP" mode.

To switch device into QMI mode of operation, use the following AT commands:

- **AT!UDPID=68A2**
- **AT!RESET**

Note: MC73xx, set the device using "AT!UDPID=68C0".

The tables below list the hexadecimal values of the Vendor ID (VID) and Product ID (VID) pairs supported by the Linux QMI SDK.

Table 5. Supported Application-Mode VID/PIDs

VID	1199	1199	1199	1199	1199	1199	1199	1199	3F0
PID	68A2	68C0	9011	9013	9015	9019	9041	9071	371D

Table 6. Supported Boot-Mode VID/PIDs

VID	1199	1199	1199	1199	1199	1199	1199	1199	3F0
PID	68A2	68C0	9010	9012	9014	9018	9040	9070	361D

To check your device's VID/PID, issue the `lsusb` command. The output will present a list of USB devices with a column showing each device's manufacturer. The device VID/PID can be read from the row containing the correct device manufacturer. Additionally, on MC77xx devices, you can use the `AT!UDINFO?` command to check VID/PID information. If your VID/PID does not match the any of the entries in the tables above, contact your FAE for support.

The following table enumerates the modems with their corresponding firmware that were tested with Linux QMI SDK 03.03.07.

Table 7. Modem and Firmware tested with the SDK

Modem	Firmware
EM7455	SWI9X30C_00.08.00.00
EM7305	SWI9X15C_05.05.56.00
EM7330	SWI9X15C_05.05.57.00
EM7355	SWI9X15C_05.05.50.00
MC7304	SWI9X15C_05.05.55.00
MC7305	SWI9X15C_05.05.57.00
MC7330	SWI9X15C_05.05.57.00
MC7350	SWI9C15C_05.05.57.01
MC7354	SWI9X15C_05.05.55.00
MC7355	SWI9X15C_05.05.56.00
MC7710	SWI9200X_03.05.29.03
MC7750	SWI9600M_03.05.13.02
MC9090	SWI6600U_02.02.01.00 / SWI6600H_02.02.01.00

Note: The SDK in general work across all firmware revisions. However, some new API might require a recent firmware.



5. Software Release Description

Table 8. Release Information

Component	Content
SDK version	03.03.07
Date of generation	2015/03/09
Binary archive name	SLQS03.03.07.bin.tar.gz
MD5 checksum	
Source code archive name	SLQS03.03.07.tar.gz
MD5 checksum	
Processor compatibility	x86, ARM, PowerPC, MIPS
Linux kernel compatibility	2.6.18 to 3.13
USB drivers compatibility	S2.23N2.30

>> 6. Software Changes Description

6.1. Validated Corrections/Improvements

ID	Description
ANO76505	[SLQS][SL9090][CDMA]Hold active call to accept waiting call fail in CDMA mode
DEV77465	LOC api
DEV77658	reset to DMSS via DM
ANO77843	SetServiceAutomaticTracking() is missing documentation
CUS77844	Need SDK workaround to suppress bearer reply option from outgoing SIP MESSAGE for SMS over IMS
ANO77929	[Linux SDK][Doc]GetNetworkPreference() documentation does not list LTE technology
DEV77952	QMI_WDS_RESET_PKT_STATISTICS api
ANO78069	[AVMS] [robust test] firmware download task starts twice but firmware version was not updated when loss radio
ANO78070	[AVMS] [robust test] No firmware upgrade failure notification when power off the module during firmware download
ANO78108	Build id of modem image is incorrect when command is sent to start FW download
ANO78114	tFNNewGPS documentation is not correct
DEV78198	[AVMS] delay and retry data call after firmware update

6.2. Known Issues

ID	Description
ANO77897	some monitoring attributes are not labelled
DEV78304	[EM7455] qcqmi cannot be created on PPC with latest Driver
ANO78378	[Linux QMI Driver] IPV6 address cannot be assigned to Ethernet port when tested with RawIP mode QMI driver

6.3. New API

API	Comment
SLQSResetPacketStatics	This API request the device to reset packet data transfer statistics
SetLocCradleMountCallback	Enables/disables the Cradle Mount callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs

API	Comment
SetLocEventTimeSyncCallback	Enables/disables the Event Time Sync callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs
SetLocInjectTimeCallback	Enables/disables the Inject Time Sync Data callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.
SetLocSensorStreamingCallback	Enables/disables the Event Sensor Streaming Ready Status callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs
SetLocInjectSensorDataCallback	Enables/disables the Inject Sensor Data callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs
SetLocEventPositionCallback	Enables/disables the Event Position Report callback function. The most recent successfully subscribed callback function will be the only function that is invoked when the corresponding event occurs.
SLQSLOCEventRegister	Used by the control point to register for events from the location subsystem
SLQSLOCSetExtPowerState	Used by the control point to set the current external power configuration
SLQSLOCStart	Used by the control point to initiate a GPS session
SLQSLOCStop	Used by the control point to stop a GPS session

6.4. Macro Usage

Macro	Usage
AM_API_MUTEX_TIMEOUT_IN_SEC	This is the timeout time (in seconds) for which the mutex is locked when the SDK is compiled with API_TIMEOUT flag.
API_TIMEOUT	This is a compilation flag. If this flag is defined during compilation, SDK will lock the mutex for a particular time. The locking time is defined by AM_API_MUTEX_TIMEOUT_IN_SEC. If this flag is not defined then the mutex is locked indefinitely.