



Customer Release Note

Linux QMI SDK 03.03.06



SIERRA
WIRELESS®

4134258
01.02
February 13, 2015

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Document History

Version	Date	Updates
01.00	February, 03, 2015	Creation
01.01	February, 03, 2015	Update ANO77717 as resolved issue
01.02	February, 13, 2015	Add ANO77897 as minor known issue



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>> 1. Introduction

1.1. Document Scope

This document describes the content of the Linux QMI SDK 03.03.06 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
RM transfer statistic	Added new api and callback to retrieve RM transfer statistic
MC9090/SL9090 SPKG firmware update	The Gobi Image Management sample app is updated to support SPKG firmware download for MC9090/SL9090
EM7455 support	The driver is update supports EM7455
SQF Filters	Updated SQF filter under tools/logging/dm/filters, please see spreadsheet on the same folder for filter description



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 (PID) 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 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 03.03.06.

Table 7. Modem and Firmware tested with the SDK

Modem	Firmware
EM7305	SWI9X15C_05.05.50.00
EM7330	SWI9X15C_05.05.50.00
EM7355	SWI9X15C_05.05.47.01
MC7304	SWI9X15C_05.05.53.00
MC7305	SWI9X15C_05.05.53.00
MC7330	SWI9X15C_05.05.50.00
MC7350	SWI9C15C_05.05.53.01
MC7354	SWI9X15C_05.05.53.00
MC7355	SWI9X15C_05.05.52.00
MC7710	SWI9200X_03.05.29.03
MC7750	SWI9600M_03.05.13.02
MC9090	SWI6600U_02.01.03.01 / SWI6600H_02.01.03.00

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	03.03.06
Date of generation	2015/02/03
Binary archive name	SLQS03.03.06.bin.tar.gz
MD5 checksum	6f17f8246c85b4e03c4b93cea2db2679
Source code archive name	SLQS03.03.06.tar.gz
MD5 checksum	e00edac01d007c119d0245230eb74526
Processor compatibility	x86, ARM, PowerPC, MIPS
Linux kernel compatibility	2.6.18 to 3.13
USB drivers compatibility	S2.22N2.29



6. Software Changes Description

6.1. Validated Corrections/Improvements

ID	Description
ANO75565	First argument returned by GetDataBearerTechnology() is not documented
ANO75570	[SLQS03.03.03][MC73xx] t132&t152 cannot return correctly
CUS75976	Compile Error found in Linux QMI SDK 3.3.4
CUS76897	[MC7354] SLQSGetProfile for eHRPD profiles
ANO76979	[AVMS] Firmware revision not refreshed after firmware update
ANO77113	[AVMS] firmware version displayed incorrectly on system info at boot up
ANO77254	[AVMS] apn_backup show garbage
DEV77273	sample application for MC9090/SL9090 spkg format firmware download
CUS77319	Add support for QMI_WDS_SWI_RM_TRANSFER_STATISTICS
ANO77327	fix response unpack at SLQSQoSswiReadDataStats
DEV77330	Display QMI service type for notifications and responses in debug log
DEV77379	[AVMS] update netman.lua to support CDMA
CUS77409	[Linux QMI SDK] SDK aborts if device is not present and APP process sends multiple QMI requests
DEV77428	[AVMS] use AT command to retrieve FSN if the firmware version does not support QMI_DMS_GET_FSN
ANO77490	[SLQS][AVMS][MC7354]Delta image install failed
CUS77588	SDK pick up incorrect qcqmi in multi modem scenario
DEV77604	Address Klocwork reported issues on SDK 3.3.5
ANO77676	qatest app Segmentation fault when execute t18 to get runtime setting after data call started (t33)
ANO77717	[AVMS] Technology was displayed as 1X on System Info when MC7350 registered to EVDO

6.2. Known Issues

ID	Description
DEV77560	Firmware download failed on 9x30 device
ANO77897	some monitoring attributes are not labelled

6.3. Interface Changes

API	Comment
SLQSQosSwiReadDataStats	Updated tx_bytes tx_bytes_drp in sQosFlowStat struct from unsigned long to unsigned long long

6.4. New API

API	Comment
SetGPSCallback	This callback returns GPS longitude & latitude
SetRMTransferStatisticsCallback	This callback returns RM transfer statistic
SLQSGetBootVersionNumber	This API get boot loader version
SLQSIspkgFormatRequired	This API check if SPKG format download is required for SL9090/MC9090
RMSetTransferStatistics	This API request the device to fetch current data system transfer Statistics

6.5. 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.