



**SWI6600S\_02.04.04.00**  
**Customer Release Note**

**[SL9090/MC9090]**



**SIERRA**  
WIRELESS

[4134323]  
[R01.00]  
[2015-07-27]

## Important Notice

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the Sierra Wireless modem are used in a normal manner with a well-constructed network, the Sierra Wireless modem should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Sierra Wireless accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Sierra Wireless modem, or for failure of the Sierra Wireless modem to transmit or receive such data.

## Safety and Hazards

Do not operate the Sierra Wireless modem in areas where cellular modems are not advised without proper device certifications. These areas include environments where cellular radio can interfere such as explosive atmospheres, medical equipment, or any other equipment which may be susceptible to any form of radio interference. The Sierra Wireless modem can transmit signals that could interfere with this equipment. Do not operate the Sierra Wireless modem in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, the Sierra Wireless modem **MUST BE POWERED OFF**. When operating, the Sierra Wireless modem can transmit signals that could interfere with various onboard systems.

---

*Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. Sierra Wireless modems may be used at this time.*

---

The driver or operator of any vehicle should not operate the Sierra Wireless modem while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some states and provinces, operating such communications devices while in control of a vehicle is an offence.

## Limitations of Liability

This manual is provided "as is". Sierra Wireless makes no warranties of any kind, either expressed or implied, including any implied warranties of merchantability, fitness for a particular purpose, or noninfringement. The recipient of the manual shall endorse all risks arising from its use.

The information in this manual is subject to change without notice and does not represent a commitment on the part of Sierra Wireless. SIERRA WIRELESS AND ITS AFFILIATES SPECIFICALLY DISCLAIM LIABILITY FOR ANY AND ALL DIRECT, INDIRECT, SPECIAL, GENERAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUE OR ANTICIPATED PROFITS OR REVENUE ARISING OUT OF THE USE OR INABILITY TO USE ANY SIERRA WIRELESS PRODUCT, EVEN IF SIERRA WIRELESS AND/OR ITS AFFILIATES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR THEY ARE FORESEEABLE OR FOR CLAIMS BY ANY THIRD PARTY.

Notwithstanding the foregoing, in no event shall Sierra Wireless and/or its affiliates aggregate liability arising under or in connection with the Sierra Wireless product, regardless of the number of events, occurrences, or claims giving rise to liability, be in excess of the price paid by the purchaser for the Sierra Wireless product.

Customer understands that Sierra Wireless is not providing cellular or GPS (including A-GPS) services. These services are provided by a third party and should be purchased directly by the Customer.

**SPECIFIC DISCLAIMERS OF LIABILITY:** CUSTOMER RECOGNIZES AND ACKNOWLEDGES SIERRA WIRELESS IS NOT RESPONSIBLE FOR AND SHALL NOT BE HELD LIABLE FOR ANY DEFECT OR DEFICIENCY OF ANY KIND OF CELLULAR OR GPS (INCLUDING A-GPS) SERVICES.

## Patents

This product may contain technology developed by or for Sierra Wireless Inc.

This product includes technology licensed from QUALCOMM®.

This product is manufactured or sold by Sierra Wireless Inc. or its affiliates under one or more patents licensed from InterDigital Group and MMP Portfolio Licensing.

## Copyright

© 2013 Sierra Wireless. All rights reserved.

## Trademarks

Sierra Wireless®, AirPrime®, AirLink®, AirVantage®, WISMO® and the Sierra Wireless and Open AT logos are registered trademarks of Sierra Wireless, Inc. or one of its subsidiaries.

Watcher® is a registered trademark of Netgear, Inc., used under license.

Windows® and Windows Vista® are registered trademarks of Microsoft Corporation.

Macintosh® and Mac OS X® are registered trademarks of Apple Inc., registered in the U.S. and other countries.

QUALCOMM® is a registered trademark of QUALCOMM Incorporated. Used under license.

Other trademarks are the property of their respective owners.

## Contact Information

Sales Desk:	Phone:	1-604-232-1488
	Hours:	8:00 AM to 5:00 PM Pacific Time
	Contact:	<a href="http://www.sierrawireless.com/sales">http://www.sierrawireless.com/sales</a>
Post:	Sierra Wireless 13811 Wireless Way Richmond, BC Canada V6V 3A4	
Technical Support:	<a href="mailto:support@sierrawireless.com">support@sierrawireless.com</a>	
RMA Support:	<a href="mailto:repairs@sierrawireless.com">repairs@sierrawireless.com</a>	
Fax:	1-604-231-1109	
Web:	<a href="http://www.sierrawireless.com/">http://www.sierrawireless.com/</a>	

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

# Document History

Version	Date	Updates
1.0	2015-07-27	Creation
<i>(Above rows are examples for CRNs.)</i>		

# »» Contents

<b>CONTENTS .....</b>	<b>5</b>
<b>LIST OF FIGURES.....</b>	<b>7</b>
<b>LIST OF TABLES .....</b>	<b>8</b>
<b>1. INTRODUCTION .....</b>	<b>9</b>
1.1. Document Scope .....	9
1.2. Document Audience .....	9
1.3. New Features/Enhancements .....	9
<b>2. ABBREVIATIONS AND DEFINITIONS.....</b>	<b>10</b>
<b>3. RELATED DOCUMENTATION .....</b>	<b>11</b>
<b>4. COMPATIBILITY.....</b>	<b>12</b>
<b>5. SOFTWARE RELEASE DESCRIPTION .....</b>	<b>13</b>
5.1. Release Identification .....	13
5.2. Software Tools Versions .....	13
5.3. Released Files and Download Processes.....	13
5.3.1. Download the entire necessary upgrade files .....	13
5.3.2. Supported Operating Systems .....	14
5.3.3. Upgrade Instructions .....	14
<b>6. SOFTWARE CHANGES DESCRIPTION .....</b>	<b>15</b>
6.1. Validated Corrections/Improvements .....	15
6.2. Interface Changes .....	21
<b>7. TROUBLESHOOTING .....</b>	<b>22</b>
7.1. Ciphering/Integrity .....	22
7.2. Crash Investigation.....	22
7.2.1. Full memory dump .....	22
7.2.2. Configuring the UE for crash dump capture.....	22
7.2.3. Capturing a crash dump.....	22
7.2.4. Mini Dump .....	23
7.2.5. Error Listing.....	23
<b>8. CERTIFICATION DESCRIPTION.....</b>	<b>24</b>
<b>9. RESTRICTIONS AND ADDITIONAL INFORMATION .....</b>	<b>25</b>
9.1. Vista Recommendations .....	25
9.1.1. Disabling Global Selective Suspend .....	25
9.1.2. Disabling Device Specific Selective Suspend for Generic Sierra Wireless Drivers .....	25





## List of Figures

No table of figures entries found.



## List of Tables

Table 1.	New Features/Enhancements .....	9
Table 2.	Abbreviations and Definitions .....	10
Table 3.	Related Documentation .....	11
Table 4.	Hardware Compatibility .....	12
Table 5.	Software Compatibility .....	12
Table 6.	Release Identification .....	13
Table 7.	Software Tools.....	13
Table 8.	Change list.....	15
Table 9.	AT commands to turn ciphering/integrity on/off.....	22
Table 10.	Additional information .....	25



# Introduction

## 1.1. Document Scope

This document is for announcing that the external formal build has been released for MC/SL9090 product of MDM6600 platform and elaborate what issues have been fixed and the enhancement/new feature in this formal release.

## 1.2. Document Audience

Customer can get related information from this external formal release note to decide if need apply this build to integrate into their products.

## 1.3. New Features/Enhancements

Table 1. New Features/Enhancements

Feature	Description
N/A	N/A

## 2.

# Abbreviations and Definitions

Table 2. Abbreviations and Definitions

Abbreviation/Acronym	Definitions
N/A	N/A

### 3.

## Related Documentation

Table 3. Related Documentation

Ref. #	Doc. #	Rev.	Document title
N/A	N/A	N/A	N/A

# 4.

## Compatibility

Table 4. Hardware Compatibility

AirPrime Compatibility List
SL9090/SL9090RD/MC9090/MC9090RD

Table 5. Software Compatibility

Component	Version
Firmware	SWI6600S_02.04.04.00
Open AT OS	Not support
Location Library	N/A
eCall inband Modem Library	N/A
Security Library	N/A
Internet Library	N/A
Extended AT Application	N/A

## 5.

# Software Release Description

## 5.1. Release Identification

Table 6. Release Identification

Component	Revision
Boot loader	N/A
Application	SWI6600S_02.04.04.00AP
Date of generation	2015/07/16
Binary Size	amss.mbn (14,606,400 bytes)
Checksum	2F9F09F811D762C1A3FE6CFD2B1A26ED
IMEI SV	N/A
Qualcomm Stack Version	M6600ASCAUTNZ3530
USB Host Version	Support USB1.1 and USB2.0

## 5.2. Software Tools Versions

Table 7. Software Tools

S/W Tools Name	Version	Resource file
SWIQMISetup	Build3650_Generic	<a href="#">\\jasmine2\projects-1\Engineering\HostSW\15 - External Release Packages\Drivers\QMI\Windows\Builds\Archived\Build3650_ALL\Generic</a>
FDT	4197	<a href="#">\\jasmine2\projects-1\engineering\hostsw\15 - External Release Packages\FDT\Build4299</a>

## 5.3. Released Files and Download Processes

### 5.3.1. Download the entire necessary upgrade files

Download the files and follow any additional instructions on the download website:  
Please contact your Sierra Wireless representative for access/instructions.

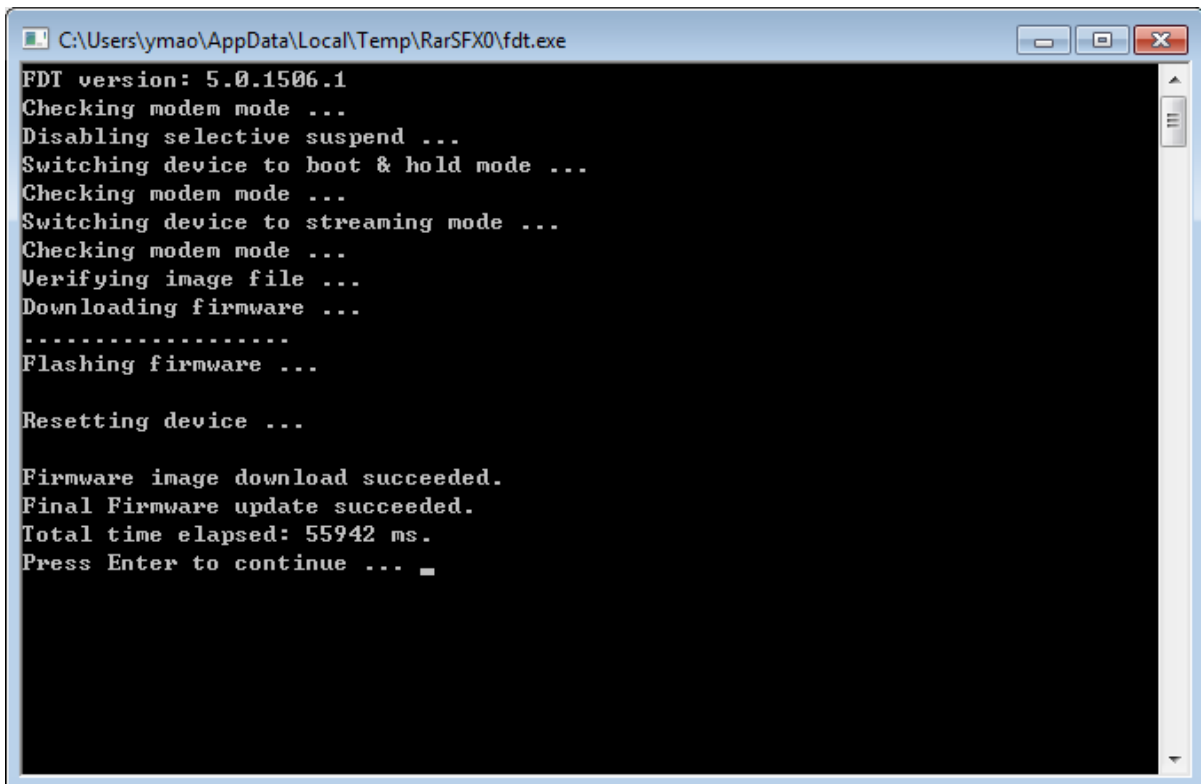
### 5.3.2. Supported Operating Systems

This software and firmware package supports the Sierra Wireless EM7700 on the following Microsoft Operating Systems:

1. Windows XP SP3 (Service Pack 3 or higher)
2. Windows Vista SP1 (Service Pack 1 or higher)
3. Windows 7

### 5.3.3. Upgrade Instructions

1. If USB driver is not installed. Unplug the USB cable of SL9090 module, run the USB driver SWIQMISetup and reset PC.
2. Power on the modem and plug USB cable to computer.
3. Make sure the boot loader is SWI6600X\_02.00.02.02BT or higher. Open AT terminal, input AT!BCINF to get the boot loader version.
4. Close all applications using the modem such as Connection Manager, HyperTerminal, QXDM, etc.
5. Double click one of the exe files (SPKG exe is recommended) to download the FW.
6. After downloading finished, the output as below:



```
C:\Users\ymao\AppData\Local\Temp\RarSFX0\fdt.exe
FDI version: 5.0.1506.1
Checking modem mode ...
Disabling selective suspend ...
Switching device to boot & hold mode ...
Checking modem mode ...
Switching device to streaming mode ...
Checking modem mode ...
Verifying image file ...
Downloading firmware ...
.....
Flashing firmware ...
Resetting device ...

Firmware image download succeeded.
Final Firmware update succeeded.
Total time elapsed: 55942 ms.
Press Enter to continue ...
```

## 6.

# Software Changes Description

## 6.1. Validated Corrections/Improvements

This section presents all corrections or improvements integrated in SWI6600S\_02.04.04.00.

Issues are sorted by alphabetical order of Impacted Domain.

Table 8. Change list

Description	Impacted Domain	Impacted Sub-Domain	Fixed in
Support new JSC memory	BSP	Memory	SWI6600S_02.04.04.00
Fixed the issue that modem failed to Set !GPSNMEASENTECE	BSP	GPS	SWI6600S_02.04.04.00
Added the feature of UQCN clean up, just keep one UQCN for each carrier	BSP	UQCN	SWI6600S_02.04.04.00
Added the feature to provide the combination of carrier, slot and UQCN.	BSP	UQCN	SWI6600S_02.04.04.00
Fixed the bug of incorrect LED behavior	CDMA	LED	SWI6600S_02.04.04.00
Fixed the bug of incorrectly check the maximum size of the input PasswordHA, PasswordAAA & MobileIP	CDMA	OMA	SWI6600S_02.04.04.00
Fix the bug QMI_NAS_SET_SYSTEM_SELECTION_PREFEREN CE doesn't work when TLV 18 & 17 is unset	QMI	NAS	SWI6600S_02.04.04.00
Modem print "Device configuration update Failure" twice when there is error during CIDC or HFA DC	CDMA	OMA	SWI6600S_02.04.04.00
Modem crash during FUMO when there is no UI client	CDMA	OMA	SWI6600S_02.04.04.00
Update the Sprint PRL to 61105	CDMA	PRL	SWI6600S_02.04.04.00
Active image may be changed after reset the modem to factory	BSP	N/A	SWI6600S_02.04.04.00
QMI command of WDSI_CMD_VAL_START_NETWORK_INTERFAC E no response when auto-connection is enabled	QMI	WDS	SWI6600S_02.04.04.00
Add a QMI DMSI_SWI_GET_DEVICE_SERIAL_NUMBERS_EX T for displaying module's MEID	QMI	DMS	SWI6600S_02.04.04.00
USB can't be waked up when there is an incoming SMS	BSP	SMS	SWI6600S_02.04.04.00
Modem crashes when active CDMA account is NAM2	CDMA	CDMA	SWI6600S_02.04.04.00
Merge SBA_M6600ASCAUTNZ35318-35320_SR01780801_21Nov14 to the trunk	CDMA	CDMA	SWI6600S_02.04.04.00
Modem crash when delete multiple SMS	CDMA	SMS	SWI6600S_02.04.04.00
Adding host wake feature for incoming SMS	CDMA	SMS	SWI6600S_02.04.04.00

Description	Impacted Domain	Impacted Sub-Domain	Fixed in
Fix the bug that MSID and MDN initial value error for Sprint and Aeris	CDMA	CDMA	SWI6600S_02.04.04.00
Add HDR (Rev. A) statistics AT commands, !EVDOCONFIG, !SCPCUSTCONFIG, !SESSIONSTATUS, !SUFWDRCRS, !SUFWDTCSTATS, !SUFWDCCSTATS, !SUFWDRESET, !MUFWDSTATS, !MUFWDRESET, !PROTSUBTYPES, !APPSUBTYPES, !PERSONALITY, !SLEEPPARMS	CDMA	AT	SWI6600S_02.04.04.00
Add AT command !MDMVER,!GMODE	CDMA	AT	SWI6600S_02.04.04.00
Add AT command !STATUS	CDMA	AT	SWI6600S_02.04.04.00
Add AT command ~NAMLCK and ~NAMVAL	CDMA	AT	SWI6600S_02.04.04.00
Add AT command !SCI	CDMA	AT	SWI6600S_02.04.04.00
Fix the bug after AT!NVDEF, MEID will be deleted	CDMA	AT	SWI6600S_02.04.04.00
Add AT command !RSSI	CDMA	AT	SWI6600S_02.04.04.00
Adding AT commands +RCHVVER, +RCHVUNBLK, +RCHVCHG and +RCHVEN	RUIM	AT	SWI6600S_02.04.04.00
Add DTMF generation AT command, !AVTONEMUTE, ~TONDUR, ~DTMFB, ~DTMFK, ~TONMUT.	Audio	AT	SWI6600S_02.04.04.00
Add AT command +ATINIT	BSP	AT	SWI6600S_02.04.04.00
Add AT command !ACTSTAT	BSP	AT	SWI6600S_02.04.04.00
Add AT command !BCFWUPDATESTATUS	BSP	AT	SWI6600S_02.04.04.00
Add AT command !PADDNSLOOKUP	PAD	AT	SWI6600S_02.04.04.00
Fix the bug After set the NV453 to 1, reset modem, AT!GSTATUS will get error response	FTM	AT	SWI6600S_02.04.04.00
Fix the bug NMEA can't be enable/disable by the NV/AT command	GPS	AT	SWI6600S_02.04.04.00
Add AT command !GPSLOCK	GPS	AT	SWI6600S_02.04.04.00
Add AT command !FMGENL, !FMGENDIRL and !EFS	EFS	AT	SWI6600S_02.04.04.00
Add SAR QMI API	QMI	DMS	SWI6600S_02.04.04.00
Fixed the bug that SWIOMADM_CMD_VAL_SESSION_GETINFO can't return HFA retry counter in DM state 13	QMI	OMA	SWI6600S_02.04.04.00
Add QMI API QMI_DMSI_SWI_GET_FWUPDATE_STATUS	QMI	DMS	SWI6600S_02.04.04.00
Add AT/QMI API to disable/enable Gobi3K download method	QMI	DMS	SWI6600S_02.04.04.00
Add QMI command of QMI_NAS_GET_HDR_COLOR_CODE_MSG	QMI	NAS	SWI6600S_02.04.04.00
Add a QMI command to support the ##debug	QMI	DMA	SWI6600S_02.04.04.00
Add QMI command DMSI_CMD_SWI_GET_FSN	QMI	DMS	SWI6600S_02.04.04.00

Description	Impacted Domain	Impacted Sub-Domain	Fixed in
Fix the bug that AUDIOI_CMD_VAL_SET_AUDIO_EXT_I2S_CONFIG always returns error	QMI	Audio	SWI6600S_02.04.04.00
Add QMI commands to support supplemental service command	QMI	VOICE	SWI6600S_02.04.04.00
Optimize RTN reset	BSP	N/A	SWI6600S_02.04.04.00
SPKG download support	BSP	N/A	SWI6600S_02.04.04.00
EFS reliability improvement	BSP	EFS	SWI6600S_02.04.04.00
Add LED behavior in UMTS and CDMA release	BSP	LED	SWI6600S_02.04.04.00
Fix the bug ATH to disconnect call make modem crash on UART port.	BSP	UART	SWI6600S_02.04.04.00
Fix the bug additional UART pin abnormal for full UART using group 2	BSP	UART	SWI6600S_02.04.04.00
Fix the bug SL9090 OMA log can't be printed via QXDM	OMA	LOG	SWI6600S_02.04.04.00
Add a NV to control the time gap between FUMO report and next FUMO	OMA	FUMO	SWI6600S_02.04.04.00
Use local time for FUMO installation	OMA	FUMO	SWI6600S_02.04.04.00
Sprint OMA can't return the right FW version when AT!PACKAGE is set	OMA	N/A	SWI6600S_02.04.04.00
GPS NMEA callback stops after the device is set to LPM	GPS	NMEA	SWI6600S_02.04.04.00
Fixed the bug that NMEA filter works abnormal	GPS	NMEA	SWI6600S_02.04.04.00
Merge QTI new stack 35318.	N/A	N/A	SWI6600S_02.04.04.00
Adding DMSI_CMD_SWI_SET_EMERGENCY_NUM, DMSI_CMD_SWI_CLR_EMERGENCY_NUM, DMSI_CMD_SWI_GET_EMERGENCY_NUM to support adding emergency number	CDMA	QMI	SWI6600S_02.04.04.00
Adding AT command AT!DACGPSIQTEST and AT!DACGPSTON	GPS	AT	SWI6600S_02.04.04.00
Adding CDMA diagnostic command	BSP	AT	SWI6600S_02.04.04.00
Adding AT!IMSETPREF for image switch	BSP	AT	SWI6600S_02.04.04.00
Voice is distorted for the SO73	CDMA	VOICE	SWI6600S_02.01.00.01 A
GAP between FUMO report & new FUMO is too short.	OMA	FUMO	SWI6600S_02.01.00.00
Don't need print "Device configuration update Failure" after HFA retry fail.	OMA	UI	SWI6600S_02.01.00.00
HFA should not retry when device in a shield room	OMA	HFA	SWI6600S_02.01.00.00
DUT will crash when issue at!IDSUISELECT=3 at the Opt-in message pop up after FW download complete.	OMA	AT	SWI6600S_02.01.00.00
Device didn't move to CIPRL & CIFUMO automatically in 10 seconds during HFA.	OMA	HFA	SWI6600S_02.01.00.00

Description	Impacted Domain	Impacted Sub-Domain	Fixed in
The 1226 Alert of CIPRL after NI DC should be device request.	OMA	OMA	SWI6600S_02.01.00.00
Need to support list the voice mail SMS	AT	AT	SWI6600S_02.01.00.00
DMSI_CMD_VAL_GET_DEVICE_HARDWARE_REV returns the wrong HW ID	QMI	DMS	SWI6600S_02.01.00.00
AUDIOI_PRM_TYPE_AUDIO_CODECSTG has some issues	QMI	VOICE	SWI6600S_02.01.00.00
Need to support the Sprint GPS AT commands	AT	AT	SWI6600S_02.01.00.00
After 6 at\$rtm, modem will back to SAFE image.	AT	AT	SWI6600S_02.01.00.00
Crash happened during FW update for 0203 to 0204 by using FDT tool	N/A	N/A	SWI6600S_02.01.00.00
Crash happened after NIPRL successful	N/A	N/A	SWI6600S_02.01.00.00
OMA-DM client logging cannot work after delete the omadm.log file from EFS	OMA	OMA	SWI6600S_02.01.00.00
.Module should not support "AT+CTA=<value>".	AT	AT	SWI6600S_02.01.00.00
SMS will list message get error when get OMA sms	OMA	SMS	SWI6600S_02.01.00.00
Adding AT command +css & +cps to SL9090, return OMA log to AT command	AT	AT	SWI6600S_02.01.00.00
QCMGD=0,1 cause crash	AT	AT	SWI6600S_02.01.00.00
Invox Capacity	AT	AT	SWI6600S_02.01.00.00
Discrete crash issue happened during RTN or Reset	OMA	OMA	SWI6600S_02.01.00.00
Fail tese case "136 Error Codes - RFC 3220 - (Home Agent)"	RF	RF	SWI6600S_02.01.00.00
Port some AT commands from AR5550	AT	AT	SWI6600S_02.01.00.00
Port "at+service" from AR5550	AT	AT	SWI6600S_02.01.00.00
Crash occurrence after HFA-DC	OMA	OMA	SWI6600S_02.01.00.00
Client Initial Client initiated OMADM FUMO and PRL can't success when their capabilities have been disabled	OMA	OMA	SWI6600S_02.01.00.00
HFA - Triggered by default MSID	OMA	HFA	SWI6600S_02.01.00.00
NI DC fail after the HFA cancel	OMA	HFA	SWI6600S_02.01.00.00
NI PRL indication error	OMA	NI	SWI6600S_02.01.00.00
FUMO Crash after downgrade by FDT	OMA	FUMO	SWI6600S_02.01.00.00
Cancel NI FUMO with error indication return	OMA	FUMO	SWI6600S_02.01.00.00
Cancel CI FUMO after NI FUMO completed return FW update fail	OMA	FUMO	SWI6600S_02.01.00.00
Crash after CIFUMO download package to 100%	OMA	FUMO	SWI6600S_02.01.00.00
Crash after Cancel CIFUMO then Change Akey and RTN	OMA	OMA	SWI6600S_02.01.00.00
Network initiated OMADM FUMO and PRL still can success when their capabilities have been disabled	OMA	OMA	SWI6600S_02.01.00.00

Description	Impacted Domain	Impacted Sub-Domain	Fixed in
There is no timestamps in the beginning of OMA-DM client logging.	OMA	OMA	SWI6600S_02.01.00.00
Adding HFA at command, delete bugs of pref-mode & FUMO	OMA	HFA	SWI6600S_02.01.00.00
Three bugs of SL9090 Sprint OMA	OMA	OMA	SWI6600S_02.01.00.00
Add OMA related AT command based on Sprint AT Requirements and delete some bugs	OMA	OMA	SWI6600S_02.01.00.00
Add the support for continuous DTMF	BSP	AT	SWI6600S_02.01.00.00
Code changes for Sprint OMA DM	OMA	OMA	SWI6600S_02.01.00.00
Correct Profile upgrade method	CDMA	OTA	SWI6600S_02.01.00.00
OMA_DM code update	OMA	OMA	SWI6600S_02.01.00.00
Set the tethered NAI associated with the Simple IP to be blank	CDMA	OTA	SWI6600S_02.01.00.00
Compile error for MMODE version	N/A	N/A	SWI6600S_02.01.00.00
Command !SELACQ support	AT	AT	SWI6600S_02.01.00.00
Set the default NV value for OMA	OMA	OMA	SWI6600S_02.01.00.00
MIP 0 is not blank now	CDMA	MIP	SWI6600S_02.01.00.00
OMA code change	OMA	OMA	SWI6600S_02.01.00.00
Dual mic doesn't work	BSP	VOICE	SWI6600S_02.01.00.00
Add UQCN image ID/build ID to ATI	BSP	UQCN	SWI6600S_02.01.00.00
Revert NV_SMS_ONLY_REGISTRATION & NV_UE_USAGE_SETTING back to nvInactive	PRI	PRI	SWI6600S_02.01.00.00
Move /sd/rat_acq_order from ATT UQCN to customer_at.txt	PRI	UQCN	SWI6600S_02.01.00.00
every AT command followed a call ID during	AT	AT	SWI6600S_02.01.00.00
SL9090 should not reconnect the data connection after making E911 call	CDMA	VOICE	SWI6600S_02.01.00.00
The Timer of exit emergency mode don't work correctly	CDMA	VOICE	SWI6600S_02.01.00.00
Need to support Locked mode	CDMA	VOICE	SWI6600S_02.01.00.00
SL9090 should not silent retry on the less preferred system than the current system	CDMA	CDMA	SWI6600S_02.01.00.00
Add audio profiles for I2S interface	BSP	I2S	SWI6600S_02.01.00.00
Add Qualcomm SBA M6600ASCAUTNZ34302S.1	BSP	BSP	SWI6600S_02.01.00.00
Dual mic support	BSP	BSP	SWI6600S_02.01.00.00
Modem AT port becomes irresponsive whe queried with gpxtrastatus	GPS	GPS	SWI6600S_02.01.00.00
Probability active session show is incomplete	PAD	PAD	SWI6600S_02.01.00.00
PAD Server and client cannot communicate to each other	PAD	PAD	SWI6600S_02.01.00.00
TX burst support on WCDMA & CDMA	BSP	BSP	SWI6600S_02.01.00.00

Description	Impacted Domain	Impacted Sub-Domain	Fixed in
Suport at!gpsmtlrsettings for QMI mode	GPS	GPS	SWI6600S_02.01.00.00
at!nvbackupcheck crash	BSP	NV	SWI6600S_02.01.00.00
GSC1 file download failed	BSP	BSP	SWI6600S_02.01.00.00
No specific AT command for SL9090 to generate DTMF tone.	BSP	AUDIO	SWI6600S_02.01.00.00
profile setting is not consistent after power cycle	BSP	AUDIO	SWI6600S_02.01.00.00
Configurable TX on indicator	BSP	BSP	SWI6600S_02.01.00.00
DMSI_CMD_VAL_GET_MSISDN always return error in CDMA mode	QMI	DMS	SWI6600S_02.01.00.00
The second MT call ID didn't show up automatically	CDMA	AT	SWI6600S_02.01.00.00
Add Qualcomm M6600ASCAUTNZ3440	BSP	BSP	SWI6600S_02.01.00.00
Enable ELNA	BSP	BSP	SWI6600S_02.01.00.00
Add TLV to configure MT auto answer setting	QMI	WDS	SWI6600S_02.01.00.00
PV build support	BSP	BSP	SWI6600S_02.01.00.00
FW did not set default value for AVTONEDUR	CDMA	AUDIO	SWI6600S_02.01.00.00
CDMA version compilation failed	BSP	BSP	SWI6600S_02.01.00.00
Update GPS related NV	GPS	GPS	SWI6600S_02.01.00.00
Update VZW/Sprint UQCN to set OMA client configuration & enable SHDR	UQCN	UQCN	SWI6600S_02.01.00.00
Update ATT UQCN per 80-N4812-1_P_NV_Items_Config_Mandated_ATT.pdf & Qanvv comparision result	UQCN	UQCN	SWI6600S_02.01.00.00
Fail to dispay call ID according to the common values of NUMBER_TYPE, NUMBER_PLAN, PI, and SI	CDMA	PROTOCOL	SWI6600S_02.01.00.00
Update PRI/customer_at files per the feedback of CCT developer	PRI	PRI	SWI6600S_02.01.00.00

## 6.2. Interface Changes

Command	Comment
None	None



# 7. Troubleshooting

The following sections describe troubleshooting information when using the AirPrime when using in a live network and when using with a test box.

## 7.1. Cipherring/Integrity

If you're not attaching, check your cipherring settings. The UE needs to use the same settings as the network/test set. Generally, live networks will have cipherring/integrity enabled. Test sets may have them enabled or disabled, but it is common for test sets to leave it disabled unless explicitly testing that feature.

The AT command is noted below:

Table 9. AT commands to turn cipherring/integrity on/off

AT Command	Description
AT!GCIPHER=X	Set the card to support integrity and cipherring with the following settings: X = 0, Cipherring OFF, Integrity OFF X = 1, Cipherring ON, Integrity OFF X = 2, Cipherring ON, Integrity ON
AT!GCIPHER?	Query the GCIPHER settings.

## 7.2. Crash Investigation

Should the UE crash there are a number of different means to provide useful feedback to Sierra Wireless for resolution of the issue.

### 7.2.1. Full memory dump

This is the preferred process because it captures the most crash information.

### 7.2.2. Configuring the UE for crash dump capture

This must be done to enable or disable the crash capture feature on the UE. This configuration is stored in NV so it is persistent across power cycles / power removal. The UE must be reset after changing the setting before the changes take effect.

To enable crash dump capture

AT!EROPTION=0

To enable UE reset upon a crash (default behaviour)

AT!EROPTION=1

### 7.2.3. Capturing a crash dump

1. Wait for / cause a crash to occur

2. Close connection manager software (to release the com port)
3. Run SwiMemDebug
4. Click Start to initiate crash dump collection. If this fails, the application likely cannot open the com port (see step 2)
5. Once 100% is reached, the crash dump collection is complete. Click Reset to reset the modem (optional), and Exit to exit the program
6. Crash files will be in the same location as SwiMemDebug. Zip up the crash files and label the zip file with a unique name (date/timestamp is suggested) and send the zip to Sierra Wireless for analysis

#### **7.2.4. Mini Dump**

If a crash occurs, the summary of why the crash occurs is saved in memory. The command following command will display the crash summary:

AT!GCDUMP

Note that this crash summary is lost once power is removed from the device (or manually cleared via AT!GCCLR).

#### **7.2.5. Error Listing**

The AT!ERR command will display “points of interest” that have occurred in the UE. These are not crashes, but are often used by developers to highlight areas they wish to examine.



8.

## Certification Description

This version has passed the Sprint certification



## 9. Restrictions and Additional Information

Table 10. Additional information

Issue ID	Description (What/When)	Impacted Domain	Impacted Sub-Domain
None	None	None	None

### 9.1. Vista Recommendations

For optimum performance and stability in Microsoft Vista, it is recommended that USB Selective Suspend be disabled. In order to disable Selective Suspend properly, follow both procedures (9.1 and 9.2) below:

#### 9.1.1. Disabling Global Selective Suspend

The following procedure will disable the global selective suspend setting in Microsoft Vista.

1. Open the Control Panel
2. Select the Power Options applet
3. For whichever item is selected as the current Power Mode (ie: Maximum Battery Life), select Change plan settings
4. Select Change advanced power settings
5. Expand USB Settings
6. Expand USB Selective Suspend settings
7. Change the settings for Plugged in to DISABLED
8. Change the settings for On Battery to DISABLED
9. Close the Power Options applet

#### 9.1.2. Disabling Device Specific Selective Suspend for Generic Sierra Wireless Drivers

The following procedure will disable the device specific selective suspend setting in Microsoft Vista when using a device configured with the generic Sierra Wireless drivers:

1. Open a notepad
2. Type the following text into notepad  

```
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SWUMX3C\Parameters]
"IdleDetect"=dword:00000000
"UsbSelSus"=dword:00000000
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SWUMX3E\Parameters]
"IdleDetect"=dword:00000000
"UsbSelSus"=dword:00000000
```

[HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Services\SWUMXA3\Parameters]

"IdleDetect"=dword:00000000

"UsbSelSus"=dword:00000000

3. Save the text file you just created with the filename disableSelSus.reg to the Desktop
4. Exit Notepad
5. Double-click the file you just created (disableSelSus.reg )
6. When prompted by Vista to allow this information to be added to the registry, select Yes.
7. Select OK
8. Reboot the PC