



SWI6600U_02.04.04.00
Customer Release Note

[SL9090/MC9090]



SIERRA
WIRELESS

[4134321]
[R01.00]
[2015-07-24]

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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.

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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

| Version | Date | Updates |
|--|------------|----------|
| 1.0 | 2015-07-24 | Creation |
| | | |
| | | |
| <i>(Above rows are examples for CRNs.)</i> | | |
| | | |
| | | |



Contents

| | |
|---|-----------|
| CONTENTS | 5 |
| LIST OF FIGURES..... | 6 |
| LIST OF TABLES | 7 |
| 1. INTRODUCTION | 8 |
| 1.1. Document Scope | 8 |
| 1.2. Document Audience | 8 |
| 1.3. New Features/Enhancements | 8 |
| 2. ABBREVIATIONS AND DEFINITIONS..... | 9 |
| 3. RELATED DOCUMENTATION | 10 |
| 4. COMPATIBILITY..... | 11 |
| 5. SOFTWARE RELEASE DESCRIPTION | 12 |
| 5.1. Release Identification | 12 |
| 5.2. Software Tools Versions | 12 |
| 5.3. Released Files and Download Processes..... | 12 |
| 5.3.1. Download the entire necessary upgrade files | 12 |
| 5.3.2. Supported Operating Systems | 12 |
| 5.3.3. Upgrade Instructions | 13 |
| 6. SOFTWARE CHANGES DESCRIPTION | 14 |
| 6.1. Validated Corrections/Improvements | 14 |
| 6.2. Interface Changes | 16 |
| 7. TROUBLESHOOTING | 17 |
| 7.1. Ciphering/Integrity | 17 |
| 7.2. Crash Investigation..... | 17 |
| 7.2.1. Full memory dump | 17 |
| 7.2.2. Configuring the UE for crash dump capture..... | 17 |
| 7.2.3. Capturing a crash dump..... | 17 |
| 7.2.4. Mini Dump | 18 |
| 7.2.5. Error Listing..... | 18 |
| 8. CERTIFICATION DESCRIPTION..... | 19 |
| 9. RESTRICTIONS AND ADDITIONAL INFORMATION | 20 |
| 9.1. Vista Recommendations | 20 |
| 9.1.1. Disabling Global Selective Suspend | 20 |
| 9.1.2. Disabling Device Specific Selective Suspend for Generic Sierra Wireless Drivers..... | 20 |



List of Figures

No table of figures entries found.



List of Tables

| | | |
|-----------|---|----|
| Table 1. | New Features/Enhancements | 8 |
| Table 2. | Abbreviations and Definitions | 9 |
| Table 3. | Related Documentation | 10 |
| Table 4. | Hardware Compatibility | 11 |
| Table 5. | Software Compatibility | 11 |
| Table 6. | Release Identification | 12 |
| Table 7. | Software Tools..... | 12 |
| Table 8. | Change list..... | 14 |
| Table 9. | AT commands to turn ciphering/integrity on/off..... | 17 |
| Table 10. | Additional information | 20 |



Introduction

1.1. Document Scope

This document is for announcing that the external formal build has been released for 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 |
|--------------------------------|---|
| EFS reliability enhancement | Improve reliability of EFS |
| NV management enhancement | Support multi-carrier NV backup |
| Image management enhancement | Support SPKG |
| MT-PDP support | Support the feature of MT-PDP |
| QMI Harmonization | QMI API interface is compatible with other Sierra QMI products |
| AT Harmonization | AT interface is compatible with other Sierra UMTS/CDMA products |
| Valid combination of AMSS/UQCN | Provide AT/QMI interface to query current valid combinations of AMSS/UQCN |

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 | SWI6600U_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 | SWI6600U_02.04.04.00AP |
| Date of generation | 2015/07/14 |
| Binary Size | amss.mbn (19,333,184 bytes) |
| Checksum | 1381F9213C018FF9D7ABF14B7ADB4C46 |
| IMEI SV | 4 |
| Qualcomm Stack Version | M6600ASCAUTNZ35325 |
| 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 | \\jasmine2\projects-1\Engineering\HostSW\15 - External Release Packages\Drivers\QMI\Windows\Builds\Archived\Build3650_ALL\Generic |
| FDT | 4299 | \\jasmine2\projects-1\engineering\hostsw\15 - External Release Packages\FDT\Build4299 |

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 SWI6600U_02.04.04.00.

Issues are sorted by fixed FW version.

Table 8. Change list

| Description | Impacted Domain | Impacted Sub-Domain | Fixed in |
|---|-----------------|---------------------|----------------------|
| Ported 3GPP UICC AT commands +CCHO, +CCHC and +CGLA from AR7 to SL9090 | UMTS | SIM | SWI6600U_02.04.04.00 |
| Support new JSC memory | BSP | Memory | SWI6600U_02.04.04.00 |
| Fixed the issue that modem failed to Set !GPSNMEASSENTENCE | BSP | GPS | SWI6600U_02.04.04.00 |
| Fixed the issue that modem failed in 31.121 TC 8.4 | UMTS | DS | SWI6600U_02.04.04.00 |
| Fixed the issue that modem failed in TC 8.2.1 | UMTS | DS | SWI6600U_02.04.04.00 |
| Added the feature of UQCN clean up, just keep one UQCN for each carrier | BSP | UQCN | SWI6600U_02.04.03.00 |
| Added the feature to provide the combination of carrier, slot and UQCN. | BSP | UQCN | SWI6600U_02.04.03.00 |
| Fixed the bug that AT+CLVL doesn't work in TTY profile | UMTS | Audio | SWI6600U_02.04.03.00 |
| Fix the bug QMI_NAS_SET_SYSTEM_SELECTION_PREFEREN CE doesn't work when TLV 18 & 17 is unset | QMI | NAS | SWI6600U_02.04.03.00 |
| Adding unsolicited message (!RIND:2,253) once the "GMM Detach request" with REATTACH_NOT_REQUIRED(detach_type = 2) from network received. | UMTS | Data | SWI6600U_02.04.01.00 |
| Modem won't send VM indication when some kind of USIM insert. | UMTS | SMS | SWI6600U_02.04.01.00 |
| Enhance +CCED to report neighbor cell information | AT | N/A | SWI6600U_02.04.01.00 |
| Support for carriers of Vodafone, Bell, T-Mobile, Telus and Orange | UMTS | UMTS | SWI6600U_02.04.01.00 |
| Modem resets when roaming between AT&T and Canadian networks along the border using the Jasper SIM | UMTS | UMTS | SWI6600U_02.04.01.00 |
| Active image may be changed after reset the modem to factory | BSP | N/A | SWI6600U_02.04.00.00 |
| QMI command of WDSI_CMD_VAL_START_NETWORK_INTERFAC E no response when auto-connection is enabled | QMI | WDS | SWI6600U_02.04.00.00 |

| Description | Impacted Domain | Impacted Sub-Domain | Fixed in |
|--|-----------------|---------------------|----------------------|
| Data call may fail when modem go back to good coverage area | UMTS | Data | SWI6600U_02.04.00.00 |
| USB can't be waked up when there is an incoming SMS | BSP | SMS | SWI6600U_02.04.00.00 |
| The phone number isn't correct when COLP is enabled | UMTS | Voice | SWI6600U_02.04.00.00 |
| For GCF case 27.16, modem didn't indicate a technical problem after enter pin code 2468 | BSP | N/A | SWI6600U_02.04.00.00 |
| Support configurable subnet mask | UMTS | UMTS | SWI6600U_02.02.01.00 |
| Fixed the issue that AT+CGACT? returns 1,0 while DUN is active | UMTS | DUN | SWI6600U_02.02.01.00 |
| Merge SBA_M6600ASCAUTNZ35318-35320_SR01780801_21Nov14 to the trunk | UMTS | UMTS | SWI6600U_02.02.01.00 |
| NVRESTORE=1/2 shall not restore the IMEI if the value in the NVBU is default | BSP | UMTS | SWI6600U_02.01.03.04 |
| Profile created at next available index instead of provided index in QMI | QMI | UMTS | SWI6600U_02.01.03.04 |
| Add AT command AT!DACGPSCTON | AT | GPS | SWI6600U_02.01.03.03 |
| Add AT command !DAWSCONFIGRXDIV to get RSSI in normal and FTM modem | AT | UMTS | SWI6600U_02.01.03.03 |
| Add time duration for QMI command AUDIOI_CMD_VAL_PLAY_AUDIO_TONE_REQ | QMI | Audio | SWI6600U_02.01.03.03 |
| Add QMI DMSI_CMD_SWI_SET_EMERGENCY_NUM, DMSI_CMD_SWI_CLR_EMERGENCY_NUM, DMSI_CMD_SWI_GET_EMERGENCY_NUM to add emergency number | QMI | DMS | SWI6600U_02.01.03.03 |
| Add QMI command VOICEI_CMD_VAL_SUPS_SET_CLIP, VOICEI_CMD_VAL_SUPS_SET_COLP to support supplemental service command | QMI | Audio | SWI6600U_02.01.03.03 |
| Add AT command !SIMRFSC | AT | SIM | SWI6600U_02.01.03.03 |
| Add AT command +CPIN2 | AT | SIM | SWI6600U_02.01.03.03 |
| Update QC base line to 3.5.30 | N/A | N/A | SWI6600U_02.01.03.03 |
| Add AT command !BCFWUPDATESTATUS | AT | BSP | SWI6600U_02.01.03.03 |
| Add QMI DMSI_CMD_SWI_GET_FSN, NASI_CMD_SWI_PS_DETACH | QMI | DMS/NAS | SWI6600U_02.01.03.03 |
| EFS reliability improvement | BSP | EFS | SWI6600U_02.01.03.03 |
| Add LED behavior in UMTS and CDMA release | BSP | LED | SWI6600U_02.01.03.03 |
| Add AT command !3GPPCFG to get 3GPP configuration | AT | UMTS | SWI6600U_02.01.03.03 |
| Add SAR QMI API | QMI | DMS | SWI6600U_02.01.03.03 |
| Add QMI WDSI_CMD_SWI_PROFILE_CHANGE to set the PDP profile | QMI | WDS | SWI6600U_02.01.03.03 |
| Add QMI API QMI_DMSI_SWI_GET_FWUPDATE_STATUS | QMI | DMS | SWI6600U_02.01.03.03 |

| Description | Impacted Domain | Impacted Sub-Domain | Fixed in |
|---|-----------------|---------------------|---------------------------|
| Add MT PDP support | UMTS | MT-PDP | SWI6600U_02.01.03.03 |
| Add !G3KDLEN to enable/disable G3K download | AT | BSP | SWI6600U_02.01.03.03 |
| SPKG download support | BSP | N/A | SWI6600U_02.01.03.03 |
| Add AT command !GPSLOCK | AT | GPS | SWI6600U_02.01.03.03 |
| Fix the bug that AUDIOI_CMD_VAL_SET_AUDIO_EXT_I2S_CONFIG always returns error | QMI | Audio | SWI6600U_02.01.03.03 |
| Fix the bug ATH to disconnect call make modem crash on UART port. | BSP | UART | SWI6600U_02.01.03.03 |
| Fixed the bug that NMEA filter works abnormal | GPS | NMEA | SWI6600U_02.01.03.03 |
| Add AT command !SELACQ | AT | UMTS | SWI6600U_02.00.00.03 |
| Add AT command !AVCDTMFK for continuous DTMF | AT | Audio | SWI6600U_02.00.00.03 |
| Fix the bug that SAR back off doesn't work | SAR | UMTS | SWI6600U_02.00.00.03 |
| Add the carrier of Rogers | UQCN | UMTS | SWI6600U_02.00.00.03 |
| Add image switch command !IMSETPREF | AT | BSP | SWI6600U_02.00.00.03 |
| Add voice mail indication via AT command | AT | VM | SWI6600U_02.00.00.03 |
| Fix the bug that PTCRB Case 34.2.5.3 failed | UMTS | UMTS | SWI6600U_02.00.00.03 |
| Fix the AT&T GSM-BTR-1-0704 test failure | UMTS | UMTS | SWI6600U_02.00.00.03 |
| Enable the CTM support for the TTY profile | UMTS | Audio | SWI6600U_02.00.00.02 |
| Fix the bug that modem may power cycles repeatedly | UMTS | UMTS | SWI6600U_02.00.00.02 |
| Correct the PLMN list for the AT&T | UMTS | UMTS | SWI6600U_02.00.00.01 A |
| Add audio profiles for I2S interface | UMTS | Audio | SWI6600U_02.00.00.01 A |
| Fix the bug AT+CGACT? return wrong info after disconnect all profile | AT | UMTS | SWI6600U_02.00.00.01 |
| Fix the bug modem crash when AT!NVBACKUPCHECK issued | AT | N/A | SWI6600U_02.00.00.01 |
| Fix the PTCRB case failure of TC 27.22.4.7.3 | UMTS | UMTS | SWI6600U_02.00.00.01 |
| Fix the bug AT+CGEQREQ cannot set the maximum DL rate to 14400 | AT | UMTS | SWI6600U_02.00.00.01 |

6.2. Interface Changes

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 hasn't passed any 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