

RILGOBI - Release Notes v2.00

Summary

RILGOBI v2.00 is a release of the RIL Driver and all other components needed to work with Sierra Wireless Modems.

Supported Platforms and Carriers

OS Versions: Windows Mobile 6.5

Supported Modem: Sierra Wireless SL9090, MC73xx

Release Components – v2.00 (Aug 29, 2014)

This build is using WM6.5 AKU 0.3.0 build 23090 and is not recommended to be running on a BSP/OS built using an earlier build of the AKU.

Component	Revision	Build Date
RIL components	2.0.0.6925	Aug 29, 2014
GobiApi.dll	2.3.0.248	Aug 29, 2014
SwiGobi.dll	2.3.0.248	Aug 29, 2014
SwiQDL	2.3.0.248	Aug 29, 2014

The Windows Mobile 6.5 RIL contains a number of Dynamically Linked Libraries (.dll), relocation files (.rel), and applications (.exe).

Component	Description
rilgobi.dll	The primary state machine and radio management engine of the RIL.
sw_emextG.dll	This dll contains extensions to the Phone Setting applet UI supporting functionality specific to CDMA or UMTS.
sw_utilityG.dll	This dll provides a set of common utilities used by other components.
SWDialParserG.dll	This dll pre-process phone dialler button press for CDMA and UMTS carriers not part of the standard MS Phone Edition UI.
swi_rilresG.dll	This dll provides UI resources used across all Sierra Wireless components.
SwiQdl.dll	This is a Sierra Gobi firmware downloader
SwiGobi.dll	This is the Sierra Wireless USB device driver.
GobiApi.dll	This dll provides an interface to the Gobi modem.
SDKRIL.dll	This dll provides a SWI API wrapper to talk to the Gobi API.
SwiCEAux.dll or SwiXXAux.dll (XX represents OEM symbolic name)	This dll provides a neutral and universal interface to the rilcdma.dll to manipulate OEM's HW. If OEM has a specific need to provide special OEM's HW interface, OEM will receive SwiXXAux.dll. Otherwise, SwiCEAux is used if OEM adheres to OEMAUX interface defined by Sierra Wireless.
REL Files	Each dll has a corresponding REL file for OS image memory relocation during the OS image building process.
Applications	
AamG.exe	This application handles coordination between core RIL functionality and the RIL extension functionality such as Activation, UI extensions, etc.

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PhoneUtilityG.exe	The Phone Utility is an application that supports hidden menu requirements of CDMA and GSM carriers.
RilTest.exe	This application is a utility to test the RIL API with the ability to capture RIL notifications for debugging.
GobiActivation	This application allows for the user to activate modules for use over CDMA network for both Verizon and Sprint.
Registry Files	This section identifies the text files that serve to ease integration of the RIL into the target OS image. Each one should be changed to .reg to be used as a registry script.
sw.reg	This registry file contains general RIL functionality.
swisdk.reg	This registry file contains items used by SWI SDK
phnext.reg	This registry file contains registries needed by sw_emext.dll and SWDialParser.dll
swigobi.reg	This registry file contains registries needed by the USB driver.
swiqdl.reg	This registry file contains the registries by the Sierra firmware downloader.

Known Issues or Usage Changes:

1. BZ46082 Data call fail when an outgoing voice call is in paging stage
2. 15220 MC73xx firmware crash when WM6.5 is resumed from suspend

Changes from Baseline Release V1.27

DEV74471	Sierra Wireless M2M AV API support
ANO073898	MC73xx fail to recognize CDMA as active technology
ANO74508	SL9090 Call forward and call waiting fix on HK Smartone
DEV75019	WM6.5 is not supporting LTE radio technology, reporting HSPA to the OS instead.

Changes from Baseline Release V1.26

ANO71472	Data abort after module power up
DEV72383	Switch to last known good carrier image if module is switched to safe image
ANO72521	Carrier names are shown as UNKNOWN in manual network selection menu.

Changes from Baseline Release V1.25

CUS70639	Work around a firmware limitation in SwiATRtnReset with AT\$RTN
CUS70871	Fix private APN issue
CUS71147	Display HFA retry counter in GobiActivation
CUS71150	Display MSL menu with ##SCRTN# dial string
CUS71151	Roaming indication fix for sprint
CUS71152	Support for changing MDN and MSID in ##MSL menu
CUS71156	Provision status in ##debug menu
CUS71157	Sprint roaming selection option menu
CUS71163	Adding FUMO buttons in GobiActivation

Changes from Baseline Release V1.24

CUS70248	Emergency call for ECC stored in SIM, passing Australia A-Tick
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Changes from Baseline Release V1.23

BZ48406	RUIM PIN user interface does not update DESC2 display field in some case
BZ48407	Call forward/waiting user interface for China Telecom RUIM
BZ48311	Device reboot afater a module power cycle in some case
BZ48185	Typo in ##DEBUG menu
BZ48422	Enhancement on PIN/Call control menu for China Telecom RUIM
BZ48421	Dialer UI may return unknown SIM status on China Telecom RUIM
BZ48458	Registry key setting to select DTMF tone generation API
BZ48460	Device may not display EVDO icon even if the actual network technology is EVDO
BZ48464	Use upin_state instead of pin1_state according to the value of univ_pin

Changes from Baseline Release V1.22

BZ48185	##DEBUG and ##DEBUGTST menu rework for SPRINT Ceritification
BZ48314	PIN support for RUIM system
BZ48312	Sprint Activation UI ussues and automatic start of activation
BZ48311	System may reboot on RUIM mode if a registry value is corrupted

Changes from Baseline Release V1.21

BZ48288	PIN1 blocked is not reported in RILGOBI
BZ48275	Emergerency number programming does not work in CDMA mode
BZ48268	NO SIM when switched back to UMTS fromCDMA image
BZ48248	Outgoing CDMA Unicode sms is not supported

Changes from Baseline Release V1.20

BZ48231	Missing SIM Phone Book Entries
BZ47785	Move GobiCarrierFWSelect to CEGOBISDK
BZ48228	Sprint OMA QMI support in GobiActivation
BZ48225	RIL crash if emergency call number list is too long

Changes from Baseline Release V1.19

BZ47656	Incoming Unicode SMS is now supported on CDMA network
BZ47888	Fix voicemail notification in Verizon
BZ47739	Implement RILDry_GetCellTowerInfo
BZ47796	Fix voicemail notification in Sprint
BZ48055	##debug and ##debugtst menu is not showing up Verizon
BZ47994	ECall registry changes
BZ48109	DTMF cannot be heard locally
BZ48115	CDMA data call can fail after modem power cycle
BZ48150	CDMA data call can fail in every other attempt
BZ48054	CDMA E911 mode support
BZ48148	EVDO icon is never displayed
BZ48154	HangUp does not handle CDMA data connection
BZ48095	CDMA data dormant icon support
BZ48167	emergency call numbers with * or # prefix
BZ48110	OTAPA call is no longer reported as voice call
BZ48111	GobiActivation.exe display changes for voice supported products
BZ48192	First incoming call in CDMA can show a corrupted caller id
BZ48015	System fail to receive SMS under some circumstances

Changes from Baseline Release V1.18

BZ47442	Remove Echo Cancellation Profile Conversion
BZ47498	Call waiting (All) cannot be set from phone user interface menu.
BZ47499	CLIR (for all calls) not working
BZ47489	Add support to handle new QMI API for NITZ.

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BZ47490	Fix bug when swapping SIM cards the voice message indication does not update.
BZ47491	Bug fix for unanswerable incoming call while call hold in progress due to line status update incorrectly.
BZ47503	Cannot read / write phonebook contacts in SIM
BZ47489	Remove test code for NITZ that check-in together at r6738.
BZ47594	Supporting configuration of NMEA sentence settings in RIL.
BZ47649	Fix blank pop-up shows when call ringing.
BZ47652	SwiGetPreferredOperatorListGobi(), the AT+CPOLE command timeout workaround.
BZ47653	Voicemail indication counter fix for T-Mobile
BZ47665	RILGOBI to update system time on NITZ notification if OS is not supporting NITZ
BZ 47668	Voice call connecting tone is not heard
BZ47669	Turn on the screen when a voicecall is connected
BZ47670	SwiGetPhonebookEntry does not handle NO SIM
BZ47672	Honeywell Dolphin black SL9090 Bluetooth support
BZ47681	voicemail service number is limited to 10 digit in Gobi AAM
BZ47716	Fix caller id cannot display in CDMA network.
BZ47783	GobiCarrierFWSelect error checkings
BZ47759	Fix call waiting does not have notification on the screen in CDMA network.
BZ47758	Fix carrier name doesn't show in China Telecom Network.
BZ47757	Fix data dormant doesn't work, session drop after voice call.
BZ47748	Fix cannot setup data call. Review the data call work flow.
BZ47734	Add PIN feature to support RIUM.
BZ47734	Add PHONE_UNIQUECALLTRACKING feature bit mask in order to keep the PIN status in UI Menu.
BZ47734	Add function to get the real RIUM status via QMI in order to support the PIN feature.

Changes from Baseline Release V1.17

GOBISDK BZ46138	Voicemail notification support SIM phone book support Fixed a possible data abort More detailed USSD error messages
RILGOBI BZ47299	Activation wizard fix for SL9090 Added back CDMA call control code which was removed during PTCRB 2G test Removed reference to unimplemented CnS calls. Voice mail notification SIM phone book support Use AT command for SideToneGain setting to work around QMI issue

Changes from Baseline Release V1.16

BZ46138	NDIS data session for Windows CE fix
BZ46573	Audio Gain Control QMI commands
BZ46529	gpsOneXTRA registry settings
BZ46654	Audio setting QMI command fixes
BZ46738	Audio parameter provisioning QMI commands
BZ47179	PTCRB 2G test fixes
BZ46076	RILGOBI build script fixes
BZ46101	Caller information garbage fix
BZ46571	Audio gain control
BZ46529	gpsOneXTRA registry settings
BZ46654	Audio settings QMI commands
BZ46738	Audio parameter provisioning
BZ46581	Equipment state is not correctly initialized
BZ46772	Driver signing changes
BZ47179	PTCRB 2G test fixes

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Changes from Baseline Release V1.15

BZ43860	Data session automatic start up when connection manager aware applications are started
BZ46040	RIL I/O control for GPSThrough operation configuration
BZ46057	QMI debug log masking
BZ46074	QMI event filtering
BZ45500	Version information tab is missing from dialer options
BZ46073	Radio Signal is not displayed for some time after system resume

Changes from Baseline Release v1.14

BZ45594	GPS tracking initialization/termination by opening/closing nmea port.
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Changes from Baseline Release v1.13

BZ45468	Voice features of SL9090
BZ45467	Voice features of SL9090

Changes from Baseline Release v1.12

BZ43762	Support for SL9090
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Changes from Baseline Release v1.11

WINSW00011336	RILGOBI: Implement support for new Sprint requirements of ##CLEAR and ##RTN. Also if user click ACTIVATE, CIPRL should be done automatically after CIDC.
WINSW00011345	RILGOBI: Remapping signal strength bars display

Changes from Baseline Release v1.10

WINSW00011308	RILGOBI: Gobi3K: Fix implementation for RIL_GetGprsContextList
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GobiSDK Changes since build # 2975

- [\[B31789\]](#)[SwiGobi] Reset pipes during system resume
- [\[B31023\]](#)[SwiGobi] Fixed rare issue which caused QMI messages to be dropped on resume
- [\[B30644\]](#)[SwiGobi] Stop NMEA tracking when platform goes to suspend
- [\[B31954\]](#)[SwiGobi] Improved behavior when resuming from suspend state