



Customer Release Notes

WP76xx Release 17.1

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Revision History

Revision number	Release date	Changes
1	January 2026	Document creation

1: Introduction

1.1 Document Scope

This document describes WP76xx firmware releases on WP7601, WP7601-1, WP7603, WP7603-1, WP7605, WP7607, WP7607-1, WP7608, WP7608-1, WP7609, WP7610, WP7611, WP7611-1, WP7611D, WP7611D-1.

1.2 Document Audience

These release notes may be distributed to all direct and indirect customers.

2: SWI9X07Y Release 17.1

2.1 Software Release Description

2.1.1 Release Identification

Component	Revision
Modem Firmware	SWI9X07Y_02.37.06.25 f306c7 jenkins 2025/07/24 02:45:36 (AT&T, Verizon, Generic, Sierra, TMO) SWI9X07Y_02.28.03.05 000000 jenkins 2020/06/02 00:54:15 (DoCoMo, Softbank, KDDI)
Linux Firmware	SWI9X07Y_03.01.14.00 2025-08-06_10:08:44
Legato Application Framework	21.05.5
MCU Firmware	002.015 (embedded as a binary in the Linux image, not applicable for modules without embedded MCU)
Binary Size	64.4 MB (compressed one-click exe)
IMEI SV	6 (SWI9X07Y_02.28.03.05) 21 (SWI9X07Y_02.37.06.25)
Qualcomm baseline	Post-CS 0.0.182.1.685027.2.704353.2
Qualcomm SBA	MDM9607.LE.2.0 Post-CS 0.0.182.1.685027.2.704353.2
Linux Kernel Version	Linux version 4.14.253 (oe-user@oe-host) (gcc version 9.3.0 (GCC), GNU ld (GNU Binutils) 2.34.0.20200220) #1 PREEMPT Wed Aug 6 08:40:26 UTC 2025
Supported H/W	WP7601, WP7601-1, WP7603, WP7603-1, WP7605, WP7607, WP7607-1, WP7608, WP7608-1, WP7609, WP7610, WP7611, WP7611-1, WP7611D, WP7611D-1

2.1.2 Software Tools Version

S/W Tools Name	Version
Windows Driver Package	B5087
Linux Drivers	R44_ENG5 (R44.0.25 B5420)
Linux SDK	R44_ENG5 (R44.0.25 B5420)

Note: Download the following tools from <https://source.sierrawireless.com/>

2.1.3 Carrier Packages

File	Carrier	Modem Firmware	Config	Linux Distribution	Base Legato System	Comment
WP7601/WP7601-1/WP7603/WP7603-1/WP7610/WP7611/WP7611-1/WP7611D/WP7611D-1						
Approved package						
WP76xx_Release1 7.1_GENERIC- VD.exe	Generic	SWI9X07Y_02.37.06.25	001.003_00 0	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP76xx_Release1 7.1_GENERIC- Data.exe	Generic	SWI9X07Y_02.37.06.25	001.002_00 0	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP76xx_Release1 7.1_ATT-VD.exe	ATT	SWI9X07Y_02.37.06.25	001.003_00 0	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP76xx_Release1 7.1_ATT-Data.exe	ATT	SWI9X07Y_02.37.06.25	001.001_00 0	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP76xx_Release1 7.1_VERIZON- VD.exe	Verizon	SWI9X07Y_02.37.06.25	001.004_00 0	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP76xx_Release1 7.1_VERIZON- Data.exe	Verizon	SWI9X07Y_02.37.06.25	001.000_00 0	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP76xx_Release1 7.1_BP7_TMO- VD.exe	TMO	SWI9X07Y_02.37.06.25	001.000_00 0	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP76xx_Release1 7.1_TMO-Data.exe	TMO	SWI9X07Y_02.37.06.25	001.000_00 0	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP7605 Approved package						
WP76xx_Release1 7.1_DOCOMO.exe	DOCOMO	SWI9X07Y_02.28.03.05	001.024_00 1	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP76xx_Release1 7.1_SOFTBANK.exe	SoftBank	SWI9X07Y_02.28.03.05	001.028_00 1	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP76xx_Release1 7.1_KDDI.exe	KDDI	SWI9X07Y_02.28.03.05	001.026_00 2	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP7607/WP7607-1 Approved package						
WP76xx_Release1 7.1_GENERIC- VD.exe	Generic	SWI9X07Y_02.37.06.25	001.003_00 0	SWI9X07Y_03.01.14.00	21.05.5	Approved
WP7608, WP7608-1 Approved package						
WP76xx_Release1 7.1_GENERIC- VD.exe	Generic	SWI9X07Y_02.37.06.25	001.003_00 0	SWI9X07Y_03.01.14.00	21.05.5	Approved

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WP7609 Approved package						
WP76xx_Release1 7.1_GENERIC- VD.exe	Generic	SWI9X07Y_02.37.06.25	001.003_00 0	SWI9X07Y_03.01.14.00	21.05.5	Approved

Function	Files
Firmware	9999999_9912248_SWI9X07Y_02.37.06.25_00_ATT-Data_001.001_000.spk 9999999_9912247_SWI9X07Y_02.37.06.25_00_ATT-VD_001.003_000.spk 9999999_9912246_SWI9X07Y_02.37.06.25_00_GENERIC-Data_001.002_000.spk 9999999_9912245_SWI9X07Y_02.37.06.25_00_GENERIC-VD_001.003_000.spk 9999999_9912244_SWI9X07Y_02.37.06.25_00_VERIZON-Data_001.000_000.spk 9999999_9912243_SWI9X07Y_02.37.06.25_00_VERIZON-VD_001.004_000.spk 9999999_9912242_SWI9X07Y_02.37.06.25_00_TMO-Data_001.000_000.spk 9999999_9912240_SWI9X07Y_02.37.06.25_00_TMO-VD_001.000_000.spk 9999999_9908845_SWI9X07Y_02.28.03.05_00_KDDI_001.026_002.spk 9999999_9908844_SWI9X07Y_02.28.03.05_00_SOFTBANK_001.028_001.spk 9999999_9908843_SWI9X07Y_02.28.03.05_00_DOCOMO_001.024_001.spk 9999999_9908787_SWI9X07Y_02.37.06.25_00_SIERRA_001.083_000.spk yocto.cwe taop.cwe legato-squashfs.ubi.cwe boot.cwe

2.2 Software Changes

The following are changes in Release 17.1 since Release 17.

2.2.1 New Features

Table 2-1: New Features

ID	Description	Impacted Domains
MOLWP9X07-1667	Mechanism to turn Legato watchdog off	Legato
MOLWP9X07-1316	Start API for DTMF detection in another call state	Modem

2.2.2 Major Bug Fixes

Table 2-2: Major Bug Fixes

ID	Description	Impacted Domains
QT19X07-5987	Critical assertion failure in the UBIFS driver causing instability	Application
QT19X07-5964	AT+CLAC does not return OK on WP7609 module	Modem
QT19X07-5952	[AT&T] - Device Fails to Register While Roaming in Puerto Rico - CR 3837235	Modem
QT19X07-5846	[WP7611][VZW][LWM2M-Motive] TC 11.02 FOTA download completes but FW update fails	Modem
QT19X07-3798	[MECS][VZWMRUE] Cannot edit MRU table by AT+VZWMRUE	Modem
MOLWP9X07-1689	[AVMS] The module fails to authenticate with the Bootstrap server and no longer connect to the AVMS server when system is unlink and relink on server	Application
MOLWP9X07-1617	Unrecognized mount option "usrquota" or missing value	Application
MOLWP9X07-1609	Behavior changed with embedded chat into R17	Application
MOLWP9X07-1590	SAFE_PWR_REMOVE pulse not present with R17	Application/Modem
MOLWP9X07-1561	[GNSS] NMEA frame not seen on USB NMEA end point before sending \$GPS_START	Modem
MOLWP9X07-1549	VoLTE call failed on Tele2	Modem
MOLWP9X07-1548	First ATTACH REQUEST to UK network fails at boot up	Application
MOLWP9X07-1503	[MISC][USBOTG] USB stick device /dev/sd* cannot be detected	Application
MOLWP9X07-1500	[SecureBoot][OEMAUTH] OK is returned when entering invalid syntax for AT!OEMAUTH command	Modem
MOLWP9X07-1490	[MECS][DATALOOPBACK] ERROR should be returned when entering invalid syntax instead OK for AT!DATALOOPBACK command	Modem
MOLWP9X07-1482	Module returned ERROR instead of OK for AT!SECBOOTCFG=?	Modem

Table 2-2: Major Bug Fixes (Continued)

ID	Description	Impacted Domains
MOLWP9X07-1481	ERROR is returned for WEXTCLK commands	Modem
MOLWP9X07-1475	CMUX does not work over USB	Modem
MOLWP9X07-1471	[AUDIO][AVSETPROFILE] Could NOT enable the audio active profile	Modem
MOLWP9X07-1469	Module needs to unlock level 3 for mapping UART if MUXMODE=1	Modem
MOLWP9X07-1441	Call fails when making call from WP76 with VoLTE SIM to RC76 Non-VoLTE SIM	Modem
MOLWP9X07-1396	WP7609 VoLTE issue on Spark NZ/One NZ	Application
MOLWP9X07-1382	R17 - eth0 interface missing	Application
MOLWP9X07-1332	Codeaurora.org repositories moved to codelinaro.org	Application
MOLWP9X07-1220	VoLTE connection issue	Modem
MOLWP9X07-1439	Crash on invalid DL Information Transfer messag	Modem
MOLWP9X07-1718	[VERIZON]IMS registration not working for VZW network	PRI configuration
MOLWP9X07-1725	[WP7611][AT&T_AVL][10776 v25.2][LTE-BTR-1-8278][Sev-1][Combined EPS/IMS attach accepted with a SMS Only indication (IOT DOM and DVM modules, DV and DO devices)]	PRI configuration
MOLWP9X07-1729	[WP7611][AT&T_AVL][10776 v25.2][LTE-BTR-1-7695][Sev-1][Determination of Data Roaming - First Net SIM in non-UI devices]	PRI configuration
MOLWP9X07-1731	[WP7611][AT&T_AVL][10776 v25.2][GSM-BTR-1-2516][Sev-1][Verify the AT&T Prepaid IMEI Lock Application functionality when the UICC is locked to another IMEI]	PRI configuration
MOLWP9X07-1735	[GCF_PTCRB][3GPP TS 34.229-1][IMS][12.2a][unexpected NAS PDU at port 5RB]	PRI configuration
MOLWP9X07-1737	[GCF_PTCRB][3GPP TS 34.229-1][IMS][19.1.5][received sdpMessageBody does not match]	PRI configuration
MOLWP9X07-1742	[GCF_PTCRB][3GPP TS 34.229-1][IMS][15.1][unexpected receive event at the IMS_Server port]	PRI configuration
MOLWP9X07-1743	[GCF_PTCRB][3GPP TS 37.571-2][A-GPS][7.1.1][UE Network Capability Failure]	PRI configuration
MOLWP9X07-1744	[GCF_PTCRB][3GPP TS 37.571-2][A-GPS][7.3.4.2_7s][Not all supported GNSS were reported by the UE]	PRI configuration

2.2.3 Major Configuration Changes

This section presents the major carrier configuration changes in this release.

Table 2-3: Major Configuration Changes

Carrier	Configuration	Description
Generic-VD	v001.003	NV#67257 -VoipSilentRedialEnabled=0 NV#71522 -hold_concurrent_voicecall_during_emergency=1 NV#70239=3 NV#70263 -utAPNName=xcap -utApplicationUID=XCAP.3gpp.org/simservs.ngn.etsi.org -eUtGBAubMode=02-UT_CONFIG_GBA_UB_ON_REQ -iUtIPAddrType=2 NV#67258 -regConfPassword=xcap AT+CGDCONT=4,"ipv4v6","xcap" GCF Approved
Generic-Data	v001.001	-NV#67225=3 (Use LPP when on LTE) -NV#70192= 15 (Select A-Glonass positioning protocols) GCF Approved
ATT-VD	v001.000	-NV#70358: -pdown_on_consecutive_techprob= 01-TRUE -cnt_of_consecutive_techprob= 3 AT&T Approved
ATT-Data	v001.001	-NV#70358: -pdown_on_consecutive_techprob= 01-TRUE -cnt_of_consecutive_techprob= 3 AT&T Approved
TMO-VD	v001.000	Based on TMO 001.047 to build new TMO-VD(Voice and Data) carrier - disable_cm_call_type (NV#5280) to 0(All CS services) - IMS_enable (NV#67218) to 1(Enable IMS) - ue_usage_setting (NV#65777) to 0(Voice-centric) - sms_only (NV#65776) to 0(SMS-only disabled) TMO Approved
TMO-Data	v001.000	Based on TMO 001.047 to build new TMO-Data carrier - disable_cm_call_type (NV#5280) to 515 (Voice, CSD and emergencycalls disabled) - IMS_enable (NV#67218) to 0(Disable IMS) - ue_usage_setting (NV#65777) to 1(Data-centric) - sms_only (NV#65776) to 1(SMS-only enabled) - Set FGI to 9A FE 4F 5D - Set LTE FGI Indicator 9 and 27 => Disable TMO Approved

Table 2-3: Major Configuration Changes (Continued)

Carrier	Configuration	Description
Verizon-VD	v001.004	Update Firmware to 02.37.06.25. Verizon Approved
Verizon-Data	v001.000	Based on Verizon 002.138 to build new Verizon-Data carrier - disable_cm_call_type (NV#5280) to 515 (Voice, CSD and emergency calls disabled) - IMS_enable (NV#67218) to 1(Enable IMS) - ue_usage_setting (NV#65777) to 1(Data-centric) - sms_only (NV#65776) to 1(SMS-only enabled) - FGI to 9A D8 0D DC Verizon Approved

2.2.4 Security Changes

2.2.4.1 Security Enhancements

This section presents the major carrier configuration changes in this release.

Table 2-4: Security Enhancements

ID	Description	Impacted Domains
QT19X07-6006	Remove Level 2 default password	Modem

2.2.5 Known Issues

This section presents all known issues in this release.

Table 2-5: Known Issues

ID	Description	Customer Impact
MOLWP9X07-1720	Module fails to authenticate with bootstrap server and unable to connect to AVMS while module de-linked from the system on AVMS	This issue has a minimal impact on the customer, as it has a low probability of occurrence and is relatively easy to rectify.
MOLWP9X07-1686	AVReady Test – SMS TX and RX Counters Displaying Zero Values – TC019	AV ready issue, not blocking Only display issue no functionality impact
MOLWP9X07-1600	[Legato][Data Connection] Stress test failed with double free or corruption	The issue is hard to reproduce. The module automatically recovers and restarts to its normal state. Low user impact. Test app crashed but no FW ram dump is observed.
MOLWP9X07-1538	[Baud-rate][IPR] Module does not respect Baud rate set by AT+IPR command on UART	If customer set the correct baud rate on module and host side then there is no issue and didn't impact functionality.
MOLWP9X07-1529	Module automatically connects to AVMS server after reset	This issue has very minor to NIL impact on the customer.
MOLWP9X07-1526	!GPSXTRAINITDNLD can't update Xtra time status	This issue only impacts the customer if need to use Xtra data service and provide assistant data, will need more time for location fixing but not impact functionality.
MOLWP9X07-1473	Set invalid values using AT!GCFEN gives OK rather than ERROR	This command only used for GCF testing and set invalid value, customer will not use this command, only RD internal usage

A: Appendix Title

A.1 Abbreviations and Definitions

Table 1-1: Abbreviations and Acronyms

Abbreviation/Acronym	Definitions
AT	Access Terminal, Attention
EDL	Emergency Download
FDT	Firmware Download Tool
GCF	Global Certification Forum
PSM	Power Saving Mode
QMI	Qualcomm Messaging Interface
SDP	Software Download Protocol

A.2 Related Documentation

- AirPrime WP7611 Product Technical Specification
Reference number: 4119652
- AirPrime WP76xx AT Command Reference Guide
Reference number: 4118047
- AirPrime WP76xx Customer Release Notes (internal only)
- Interface Specification for MDM9x07 AT Commands
Reference number: 41113399