Release Notes ME910C1/ML865C1

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TECHNICAL
DOCUMENTATION

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APPLICABILITY TABLE

PRODUCTS

- ME910C1-NA 30.00.XX8
- ME910C1-NV 30.00.XX4
- ME910C1-AU 30.00.XX7
- ME910C1-E1 30.00.XX8
- ME910C1-E2 30.00.XX8
- ME910C1-WW 30.00.XX8
- ML865C1-EA 30.00.XX8
- ML865C1-NA 30.00.XX8
- ME910C1-J1 30.00.XX3
- ME910C1-P1 30.00.XX8

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1. INTRODUCTION

1.1. Scope

Scope of this document is to detail the corrections, changes or enhancements made to the software of Telit modules.

1.2. Audience

This document is intended for Telit customers.

1.3. Contact Information, Support

For general contact, technical support services, technical questions and report documentation errors contact Telit Technical Support at:

- TS-EMEA@telit.com
- TS-AMERICAS@telit.com
- TS-APAC@telit.com

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Our aim is to make this guide as helpful as possible. Keep us informed of your comments and suggestions for improvements.

Telit appreciates feedback from the users of our information.

1.4. Related Documents

- AT Command Reference Guide, 80529ST10815A

2. DELTA SW 30.00.XX2 - M0B.XX0003 / 30.00.XX3

2.1. New Features available on M0B.xx0003 / 30.00.xx3

Type	Description
ID#CR1757	Implemented AT#CPSMS to read PSM values set by the network
ID#CR1736 **ID#40475**	Implemented AT#CEER and AT#CEERNET support for Extended Numeric Error report
ID#CR1713	Improved AT#RFSTS command: added SINR parameter
ID#CR1701	Added SNI support for SSL/TLS
ID#CR1639	Implemented HTTPS for SSL/TLS support for HTTP (AT#HTTPCFG command)
ID#CR1634	Implemented AT#SSLSENDEXT command to send data through a secure socket in Command Mode
ID#38311	Implemented AT+CCIOTOPT commands for CIoT optimization configuration
ID#CR1731	Implemented XFP and LXFP module-side support for firmware upgrade (partial support, full support will be available later)
Feat	Updated LWM2M implementation to meet latest Verizon requirements and AT&T requirements
Feat	Implemented LWM2M support for Telit IoT Portal services: • FOTA service
Feat	Implemented functionality to initiate a FOTA update from a remote server (Push FOTA)
Feat	Implemented support for AppZone C APIs
Feat	Implemented AT#CEDRXS custom command for eDRX setting
ID#37898	New Naming convention for FW version
Feat	New AT Command AT#SWPKGV for SW Package version

2.2. General Enhancements on M0B.xx0003 / 30.00.xx3

Type	Description
ID#39096	Improved command for eDRX configuration and unsolicited in online mode: +CEDRXS
ID#39055	Solved SIM PIN enable triggers registration in COPS=2
ID#39053	ATS3 and ATS4 commands execution enabled also for SIM not inserted and pending PIN conditions.
ID#38273	Solved URC's not available when DTR is de-asserted
ID#39063	Improved management of the URC messages for +CREG when the module is in power saving for CFUN=5
ID#39334	Improved +CME ERROR: numeric parameter out of bounds, in manual selection using < AcT>=8 (CAT M)
ID#40209	Solved Module reboots after +++
ID#40086/39916	Solved AT#SD Connection drop after TAU reject
ID#38675	Improved SIM Toolkit management
Enh	Added support for 512 byte RSA Key to be able to connect to Azure server
Enh	Improvement on AT#TESTMODE command
Enh	Improved AT#FWSWITCH command to switch between operator configurations in Single SKU variants
ID#39491	Fixed ME910C1-Nx #SERVINFO responds just OK
ID#40606	Fixed AT+CCID only returns numeric characters and not alphabetic characters
ID#34637	Fixed +COPS=? doesn't work when in cops=2
ID#40562	Fixed AT command AT#BND, to change bands

ID#39815	Changed default value for AT#AUTOBND to 2 (automatic band selection)
ID#38696	Improved AT#CSURV for network survey
Enh	Connected Mode Mobility support
ID#39100	Improvement of FOTA_STATE to avoid triggering the FOTA process if a delta is not present

2.3. Known limitations on M0B.xx0003 / 30.00.xx3

Type	Description
-	FOTA not supported from 30.x0.xx2 to 30.00.xx3
Ongoing	VoLTE is not supported in M0B.xx0003 release
ID#40340 / 40112	Limitation when transferring large files over UART Workaround: set AT#TCPMAXWIN=1024, it has effect to TCP, HTTP, FTP.
Ongoing	AT#M2MWRITE needs to be sent in small chunks by the host (recommended: 1000 bytes every 100ms)
Ongoing	LWM2M for AT&T is disabled by default
ID#39441	Unable to deactivate PDP context after AT#HTTPSND. Workaround is to issue AT#HTTPRCV before deactivating PDP context
ID#41180	at#ccid returns '?' at the end when the ICCID is 18 digits long, example #CCID: 899720203565063371?
ID#46665	SSLD replies "connection failed/can not open socket" after 20 cycles.
Ongoing	After FOTA upgrade AT#WS46 is set to default value '0' (Cat M1 only). Preferred option needs to be reselected if different from '0'.

3. DELTA SW M0B.XX0003/30.00.XX3 - M0B.XX0003/30.00.XX4

3.1. New Features available on M0B.xx0003 / 30.00.xx4

Type	Description
ID#CR1792	Implemented Jamming Detection feature (AT#JDRENH2)
ID#CR1801	Optimized size for FOTA delta file

3.2. General Enhancements on M0B.xx0003 / 30.00.xx4

Type	Description
ID#44019	Improved support for CMUX
ID#40340 / 40112	Overcome the limitation when transferring large files over UART
ID#41453	Solved: socket stays open and AT#SH gets stuck while there is no coverage
ID#41034	Solved AT#TESTMODE="RL4G" triggers a reboot
ID#41035	Solved AT#TESTMODE no response to CH4G when setting DL bands
ID#43535	Provided option to delete cell acquisition database file

3.3. Known limitations on M0B.xx0003 / 30.00.xx4

Type	Description
-	FOTA not supported from 30.x0.xx2 to 30.00.xx4. It is supported from 30.00.xx3 to 30.00.xx4.
-	VoLTE is not supported
Ongoing	AT#M2MWRITE needs to be sent in small chunks by the host (recommended: 1000 bytes every 100ms)
Ongoing	LWM2M for AT&T is disabled by default
ID#39441	Unable to deactivate PDP context after AT#HTTPSND. Workaround is to issue AT#HTTPRCV before deactivating PDP context
ID#41180	at#ccid returns '?' at the end when the ICCID is 18 digits long, example #CCID: 899720203565063371?
ID#46665	SSLD replies "connection failed/can not open socket" after 20 cycles.
Ongoing	After FOTA upgrade AT#WS46 is set to default value '0' (Cat M1 only). Preferred option needs to be reselected if different from '0'.

4. DELTA SW M0B.XX0003/30.00.XX4 - M0B.XX0004/30.00.XX5

4.1. New Features available on M0B.xx0004 / 30.00.xx5

Type	Description
ID#CR1882	Added #NTP Support – Updating date and time to an NTP server
ID#CR1837	Added the possibility to change IoT RAT priority to dual mode Cat M1 & NB-IoT with NB-IoT preferred (option on the AT#WS46 command)
ID#CR1752	AT#OTAUPW over UART
ID#CR1731	XFP and LXFP support
ID#CR1764	Added support for Verizon FOTA
ID#CR1828	Added AT+CIND functionality
ID#CR1721	Added Non-IP Data Delivery (NIDD) Support for NB-IoT
ID#CR1893	Test Mode support for all bands without having to switch to a configuration that supports the specific band
ID#CR1808	Added RAI - Release Assistance Indication support (parameter for TCP and UDP socket SEND commands in command mode)
ID#CR1780	Added support for ECM
ID#CR1872	Extended number of IP easy sockets from 6 to 10
ID#CR1716	Added AT#M2MBACKUP command to enable/disable AppZone application backup Same result can be reached using m2m_backup functions in AppZone
ID#CR1761	Ability to use the same serial port from AppZone and externally
Feat	Added support for LWM2M Diagnostics
Feat	Added support for Band 4 in Verizon configuration
Feat	Added Secure Boot

4.2. General Enhancements on M0B.xx0004 / 30.00.xx5

Type	Description
ID#38696	CSURV improvement :Added new development that uses network scan result. This permits to show cells even if the module isn't registered.
ID#41053	AT#FASTSHDN, enabled Fast shutdown on GPIO level instead of GPIO edge
ID#41921	Solved +CME ERROR: SSL certs and keys wrong or not stored in SSL server auth mode
ID#44134	Solved CTRL-Z not recognized after #SSEND data
ID#44242	Solved AT Interface gets locked when using AT#SSEND in an “out of coverage” area
ID#43600	Solved AT#SSEND sometimes returns ERROR during CAT M road test
ID#40269	Solved echo disabled by default and not possible to save echo enabled
ID#41653	Improved management of settings/configurations profiles
ID#42050	Solved AT+CGCONTRDP doesn't show cid 2 APN/IP address if the APN is re-used from cid 1
ID#43597	Improved AT#PADFWD and AT#PADCMD
ID#44146	Solved AT#TESTMODE="CH4G ..." doesn't return an OK if the band is supported
ID#43360	Added support for explicit mode SMTP-S where TLS handshake starts with STARTTLS, w/o requiring a dedicated port
ID#41180	Solved AT#CCID returns ‘?’ at the end when the ICCID is 18 digits long, example #CCID: 899720203565063371?
ID#44870	Fixed ATS12

ID#44933	AT#SRECV improvements when UDPInfo set as 1
ID#37920	Improved AT#M2MWRITE, AT#M2MDEL, AT#M2MLIST and AT#M2MREAD
ID#38447	Added AT#M2MRUN, AT+M2M
ID#44461	Added #CEERNETEXT
ID#44604, ID#38453	Improvements to AT&K, HW flow control
ID#33211	Solved GPSNMUN 1 and 2 doesn't report unsolicited streaming of NMEA data
ID#39733	Solved #SSLH=1 shall reply OK if there aren't active connections, not ERROR
ID#43331	Improved AT#PLMNMODE to select what PLMN list is used
Enh	AppZone improvements

4.3. Known limitations on M0B.xx0004 / 30.00.xx5

Type	Description
-	FOTA not supported from 30.x0.xx2 to 30.00.xx5. It is supported from 30.00.xx3 and 30.00.xx4 to 30.00.xx5.
-	VoLTE is not supported
-	Downgrade from FW 30.00.xx5 to FW 30.00.xx4 or older is NOT supported on the 30.00.xx5 P/Ns (due to the new Secure Boot feature)
Ongoing	LWM2M for AT&T is disabled by default
ID#39441	Unable to deactivate PDP context after AT#HTTPSND. Workaround is to issue AT#HTTPRCV before deactivating PDP context
ID#46240	After setting alternate function for the GPIO, it is set and correctly working but the read command doesn't show the correct setting of the GPIO
ID#45085	UART becomes unresponsive after receiving URC during CFUN=5
ID#46665	SSLD replies "connection failed/can not open socket" after 20 cycles.
Ongoing	After FOTA upgrade AT#WS46 is set to default value '0' (Cat M1 only). Preferred option needs to be reselected if different from '0'.
ID#49056 **ID#49010**	LWM2M Verizon FOTA: HTTP wrong management of DNS resolution does not allow to download the delta file

5. DELTA SW M0B.XX0004/30.00.XX5 - M0B.XX0004/30.00.XX6

5.1. New Features available on M0B.xx0004 / 30.00.xx6

Type	Description
ID#CR2104	Implemented URCs for Verizon FOTA
Feat	OneEgde - LWM2M Device Management and Data Delivery
Feat	OneEdge - Connection Agent
Feat	OneEgde – Built-in Security and Personalization

5.2. General Enhancements on M0B.xx0004 / 30.00.xx6

Type	Description
ID#45085	Solved UART becomes unresponsive after receiving URC during CFUN=5

5.3. Known limitations on M0B.xx0004 / 30.00.xx6

Type	Description
-	FOTA not supported from 30.x0.xx2 to 30.00.xx6. It is supported from 30.00.xx3 / 30.00.xx4 / 30.00.xx5 to 30.00.xx6.
-	VoLTE is not supported
-	Downgrade from FW 30.00.xx6 to FW 30.00.xx4 or older is NOT supported on the 30.00.xx6 P/Ns (due to the new Secure Boot feature)
Ongoing	LWM2M for AT&T is disabled by default
ID#39441	Unable to deactivate PDP context after AT#HTTPSND. Workaround is to issue AT#HTTPRCV before deactivating PDP context
ID#46665	SSLD replies "connection failed/can not open socket" after 20 cycles.
ID#47557	AT+CFUN=5 not working properly when #PORTCFG=3
Ongoing	After FOTA upgrade AT#WS46 is set to default value ‘0’ (Cat M1 only). Preferred option needs to be reselected if different from ‘0’.
ID#49056 **ID#49010**	LWM2M Verizon FOTA: HTTP wrong management of DNS resolution does not allow to download the delta file

6. DELTA SW M0B.XX0004/30.00.XX6 - M0B.XX0004/30.00.XX7

6.1. New Features available on M0B.xx0004 / 30.00.xx7

Type	Description
ID#CR1835	Implementation of MQTT AT commands
ID#CR1807	FTPS implementation
ID#CR1824	NTP Client Authentication
ID#CR1722	Single SKU: automatic carrier configuration selection based on detected SIM (AT command: #FWAUTOSIM)
ID#CR1686 **ID#CR2095**	Improved command #SSLSECDATA for the security of private key data
ID#CR1995	Added option in the #FWSWITCH command to save parameter configuration when changing between carrier configurations
ID#CR2089	Implemented command AT+CRCES for reading info about Enhanced Coverage Level in NB-IoT
ID#CR2116	Implementation of AT#SYSHALT command for the fast shout down on the ML865C1 products
ID#CR2117	Added support of ME_DEACT URC code on the AT+CGEREP command
ID#CR2142	Improved LWM2M AT Commands for controlling the FOTA upgrades
ID#CR2177	Implemented functionality for jamming detection when jammer is active before module power-up
ID#CR2152	LWM2M: added the possibility to connect to a 3rd party LWM2M Bootstrap / DM server
ID#CR2159	LWM2M: added commands to enable and configure URC when LWM2M Notify is received on the server

Type	Description
ID#44774	Memory map reorganization on ME910C1-WW/-E2/ML865C1-EA variants to be able to host 30.00.xx7 features
ID#CR1656	Improved network scan functionality (#CSURV) to scan for cells from multiple operators
ID#CR2054	Added parameters to the AT#SWPKGV command to get single-line responses
ID#CR1881	Added SSLSRING unsolicited feature in AT#SSLCFG Command

6.2. General Enhancements on M0B.xx0004 / 30.00.xx7

Type	Description
ID#50276	Solved Context activation with authentication fail using semicolon character in the password
ID#49443	Solved URC output between AT command
ID#49103	Corrected <CR> representation in SMS text mode
ID#46328 **ID#48024**	Enhancements in network scanning functionality (#CSURV AT command)
ID#48021	Solved unexpected data sent to auxiliary serial port during boot up
ID#46953	Improved HTTPQRY behavior with HTTPS hostname options settings alignment
ID#44540	Solved AT#V24CFG=1,1 not managing correctly the CTS signal
ID#45736	Improved #HTTPRCV behaviour in closing the socket
ID#47668	Added handling of field EFvmwi on SIM 2G
ID#40005 **ID#47614**	Added verbose output to #OTAUP AT command

Type	Description
ID#43537	Solved #JDRENH2 mode 4 unsolicited issue
ID#47954 **ID#49254**	Improved flow control in CFUN=5
ID#47557	Solved AT+CFUN=5 not working properly when #PORTCFG=3
ID#39441	Solved unable to deactivate PDP context after AT#HTTPSND.
ID#46665	Solved SSLD replies "connection failed/can not open socket" after 20 cycles.
ID#47544	Solved after FOTA upgrade AT#WS46 is set to default value ‘0’
Enh	Improvements in AppZone APIs
ID#50070	Solved USIF 1 lose first characters after wakeup from CFUN 5
ID#46498	Solved failure with #FTPRECV
ID#48273	Solved URC not received on USIF1
ID#42312	Solved baudrate reported by IPR and AT&V commands is always 115200
ID#48024	Solved #CSURV in Cat.M reporting same rx Lev for all the cells.
ID#49103	Solved incorrect <CR> representation in SMS text mode
ID#46380	Solved AT#MONI reporting pci (physical cell id) parameter always 0
ID#47850	Fixed URCs management when AT+CFUN=5, DTR OFF, AT&K3, RTS OFF
ID#48373	Solved CMUX - Unable to open virtual ports over USB
ID#45921	Solved #CSURV reports 2G cells when AT+WS46=28
ID#47466	Solved CMEE result code for AT#PING in case of unexisting domain name

6.3. Known limitations on M0B.xx0004 / 30.00.xx7

Type	Description
-	FOTA not supported from 30.x0.xx2 to 30.00.xx7. It is supported from 30.00.xx3 / 30.00.xx4 / 30.00.xx5 / 30.00.xx6 to 30.00.xx7 on variants ME910C1-NA/-E1/-AU.
-	VoLTE is not supported
-	ME910C1-WW/-E2/ML865C1-EA variants: firmware upgrade from SW 30.00.xx6 (or older) to SW 30.00.xx7 (and later) is not supported on these variants, due to the memory map reorganization needed to host 30.00.xx7 features
	Downgrade from FW 30.00.xx7 to FW 30.00.xx4 or older, on variants ME910C1-NA/-E1/-AU, is NOT supported on the 30.00.xx7 P/Ns (due to the new Secure Boot feature)
Ongoing	LWM2M for AT&T is disabled by default
ID#49056 **ID#49010**	LWM2M Verizon FOTA: HTTP wrong management of DNS resolution does not allow to download the delta file

7. DELTA SW M0B.XX0004/30.00.XX7 - M0B.XX0005/30.00.XX8

7.1. New Features available on M0B.xx0005 / 30.00.xx8

Type	Description
ID#CR1898	Add noCarrierMode feature in SSLCFG
ID#CR1912	GNSS – Implemented AT Command for DPO setting
ID#50255	AT command for MQTT on SSL
ID#CR2085	Implemented AT#PSMCTS for incoming data indication in CFUN=5 with CTS/RI:
ID#CR2137	Added support for Qualcomm GTP feature (AT#GTP command)
ID#CR2180	ICMP packet with Sequence Number "0" is not answered, change it to a different value
ID#CR2217	Implemented AT+ODIS command
ID#CR2223	LWM2M Verizon FOTA :Changed LWM2M Version Reporting to Uniquely Identifiable Package
ID#CR2236	Alignment to the latest AT&T LWM2M requirements (including LwM2M Keys Management)
ID#CR2241	Added restart parameter to FTPGETOTA
ID#48672	LWM2M AT&T agent enabled at startup

7.2. General Enhancements on M0B.xx0005 / 30.00.xx8

Type	Description
ID#40005	Solved missing feedback from #OTAUP
ID#46889	+COPS=2 changes to +COPS=0 at next reboot
ID#47371 **ID#41153**	AppZone Improvements
ID#48374	CMUX – Solved Unable to open virtual ports over USIF1
ID#48527	Solved #OTAUPW ERROR while sending delta
ID#49287	CMUX: Download of average amount of data (>50KB) will result in data loss
ID#50307	Manual network selection – Solved MCCMNC not available at next reboot
ID#50495	Improved AT#TESTMODE command for bands B18, B19 and B26
ID#50852	Added SPI clock at 62.5kHz and 250kHz
ID#49401 **ID#49056**	LWM2M Verizon FOTA: Solved HTTP wrong management of DNS resolution does not allow to download the delta file
ID#50172	Solved ME910Cx-xx series can't send zero byte payload packet over UDP ERROR on AT interface after cntrl-z
ID#50916	Added #LWM2MEXIST AT command to allow the user to check if an agent exists, or if a URI exists for a specified agent
ID#51530	Solved a connection closing issue in AT#FTPGETPKT command
ID#51484	Added missing saving in NVM of #TEMPMON action.
ID#51835	Corrected a wrong check on leap years in date computing when receiving NITZ.
ID#51028	FTP: Solved ASCII Mode not working in upload.
ID#50935	Solved AT+CFUN=5 module stops responding after several DTR transitions
ID#50969	Solved: keep alive doesn’t work on TCP connection

Type	Description
ID#49476	Solved sequence Number "0" ICMP packet timeout
ID#49684	Improved Power on timing
ID#51924	Solved #FTPAPPEXT ignore ESC char
ID#50041	Solved missing MSC frame on CMUX

7.3. Known limitations on M0B.xx0005 / 30.00.xx8

Type	Description
-	FOTA not supported from 30.x0.xx2 to 30.00.xx8. It is supported from 30.00.xx3 / 30.00.xx4 / 30.00.xx5 / 30.00.xx6 / 30.00.xx7 to 30.00.xx8 on variants ME910C1-NA/-E1/-AU.
-	VoLTE is not supported
-	ME910C1-WW/-E2/ML865C1-EA variants: firmware upgrade from SW 30.00.xx6 (or older) to SW 30.00.xx7 (and later) is not supported on these variants, due to the memory map reorganization needed to host 30.00.xx7 (and later) features
	Downgrade from FW 30.00.xx8 to FW 30.00.xx4 or older, on variants ME910C1-NA/-E1/-AU, is NOT supported on the 30.00.xx8 P/Ns (due to the new Secure Boot feature)

8. DOCUMENT HISTORY

Revision	Date	Changes
0	2018-10-10	First issue 30.00.xx2 → M0B.xx0003 / 30.00.xx3
1	2019-02-01	Updated Applicability table (added ME910C1-AU) Amended description: Added support for 512 byte RSA Key to be able to connect to Azure server
2	2019-05-08	Added M0B.xx0003 / 30.00.xx4
3	2019-06-24	Added M0B.xx0004 / 30.00.xx5 Corrected ID#41435 in ID#43535 Documented Connected Mode Mobility as M0B.xx0003 / 30.00.xx3 feature. Updated Applicability Table
4	2019-07-25	Updated Applicability Table Documented ID#39100 enhancement for M0B.xx00003 / 30.00.xx3 FW.
5	2019-08-20	Updated Section “Known limitations on M0B.xx0004 / 30.00.xx5”: added ID#45085
6	2019-09-09	Added M0B.xx0004 / 30.00.xx6 Updated Applicability Table Updated known limitations Sections: added AT#WS46 set to default after FOTA upgrade and ID#46665.
7	2020-02-13	Added M0B.xx0004 / 30.00.xx7 Updated known limitations sections for FW 30.00.xx5 / 30.00.xx6, added ID#49056/ID#49010
8	2020-04-29	Added M0B.xx0005 / 30.00.xx8

SUPPORT INQUIRIES

Link to **www.telit.com** and contact our technical support team for any questions related to technical issues.

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