

Release Note. (2.1.0)

date : 2018.12.03

2.1.0 official version released after QC pass of 2.1.0.RC2

Release Note. (2.1.0.RC2)

date : 2018.11.02

1 Changes/New

1.1 DMS5

1.1.1 Support DMSCMD_SENDDEV Command

- SendDEV API send "message log file" to server.

1.2 LOG

1.2.1 Write SIM Number in system.log.

- SIM_INFO Structure

type	Name	size (byte)	description
uint32	Magic	4	
uint32	Index	4	
uint32	Type	4	0x3D : LOG_SIM_INFO
UTC_TIME_SEC	sys_time	8	utc time
uint8[42]	String	42	information string (ICCID)
uint16	Crc	2	

1.3 3G/LTE

1.3.1 Support (WS46).

- We can change the AT Command WS46 value by setting.
- Add new setting item as below,

property name	value type	Description	default value
[3G/LTE] NET_3G_ATWS46	int, 0~1000	12 : GSM Digital Cellular Systems (GERAN only) 22 : UTRAN only 25 : 3GPP Systems (GERAN and UTRAN and E-UTRAN) (factory default) 28 E-UTRAN only 29 GERAN and UTRAN 30 GERAN and E-UTRAN 31 UTRAN and E-UTRAN 0 or others : Do Not Changed.	0

※ NOTE: above logic only works with Telit Modules.

1.3.2 Add an Exception

- When CGREG response is 2 (not registered, but terminal is currently searching a new operator to register to) more than 10 minutes, modem reboot.
- 1.3.3 Add Power On/Off Control for the external USB1(rear side).

1.4 Add OSD UI showing setting.

1.4.1 OSD on/off by setting. => CP4 Turn off OSD text completely

property name	value type	description	default value
TV_OUT_OSD	int 0~3	TV Out default osd 0: osd type1 (time, disk space, camera title, camera/event status) 1: osd type2 (time, disk space, camera title) 2: osd type3 (time, disk space) 3: osd off	0

Release Note. (2.0.0)

date : 2017.07.19

Official version released (no change from RC15).

Release Note. (2.0.0.RC15)

date : 2017.07.12

- 1 Changes/New
 - 1.1 SD file scan => no Watchdog reboot
- 2 B'DTEST – Support USB TEST
- 3 Fixed
 - 3.1 Set FHD camera apply issue.

Release Note. (2.0.0.RC14)

date : 2017.06.26

- 1 Changes/New
 - 1.1 WAKEUP register interval setting
 - 1.1.1 [DEVICE] REGISTER_INTERVAL
 - 1.2 [DMS5] Individually control event images per event type

- 2 Fixed
 - 2.1 Network recovery exception list
 - 2.2 UploadNotify didn't work
- 3 Etc.
 - 3.1 Remove Codec Library debug message

Release Note. (2.0.0.RC13)

date : 2017.06.18

- 4 Changes/New
 - 4.1 Support Board Id 0100.
 - 4.1.1 BoardId(0000) – alarm in 3EA, alarm out 2EA
 - 4.1.2 BoardId(1000) – alarm in 4EA, alarm out 1EA
 - 4.1.3 BoardId(0100) – alarm in 4EA, alarm out 1EA (4th alarm in type is NC/NO)
 - 4.2 AT#REBOOT fails more than 5 times => execute hardware reset
- 5 Fixed
 - 5.1 [Debug] During Playback display old file.

Release Note. (2.0.0.RC12)

date : 2017.06.01

- 6 Changes/New
 - 6.1 Support LE910C1-NS (Sprint LTE module)
 - 6.2 Add Network icon
 - 6.3 When changed the channel on the monitor, channel is skipped when it's not connected.
 - 6.4 Add Display mode
 - 6.4.1 [DEVICE] TV_OUT_MODE (option to turn off video output signal completely unless there is a trigger, i.e. reverse trigger for rear backup camera display)
- 7 Fixed
 - 7.1 Change default G-sensor angle as like the User guide. We noticed it has wrong angle setting.
 - 7.2 Remove Display noise

Release Note. (2.0.0.RC11)

date : 2017.05.25

- 1 Changes/New
 - 1.1 Add playback and UI
 - 1.1.1 Menu
 - ✓ Password
 - ✓ Information
 - ✓ G-Sensor Calibration
 - ✓ Playback
 - 1.1.2 Disk Usage Bar
 - 1.2 Temper detection
 - 1.2.1 [RECORD] VIDEO_PROTECT
 - 1.3 Overwrite Exception
 - 1.3.1 [RECORD] OVERWRITE_ESKIP_ALARM
 - 1.3.2 [RECORD] OVERWRITE_ESKIP_RECBTN
 - 1.3.3 [RECORD] OVERWRITE_ESKIP_GSENSOR
 - 1.3.4 [RECORD] OVERWRITE_ESKIP_OVERSPEED
- 2 Fixed
 - 2.1 Fix Event trigger (it didn't trigger when channel was not selected.)
 - 2.2 Fix E-Call event (we recorded it as a Turn event before)
 - 2.3 Fix Network error recovery logic
 - 2.4 Fix RECORD_ON, RECORD_OFF log (it didn't have a storage type before)

Release Note. (2.0.0.RC10)

date : 2017.05.14

- 8 Changes/New
 - 8.1 Support Wakeup function
 - 8.1.1 Add [DEVICE] WAKEUP_INTERVAL
 - 8.2 Support UploadDrivingData API G-value 4hz, 5hz
 - 8.3 Enhance live Display (display full screen per channel)
- 9 Fixed
 - 9.1 OBD II Car speed calculation error
 - 9.2 UploadEvent (Panic event) error

Release Note. (2.0.0.RC9)

date : 2017.04.24

- 10 Changes/New
 - 10.1 Change register for Monitor out
 - 10.1.1 addr: 0x1c90088, value: 0x00004111

Release Note. (2.0.0.RC8)

date : 2017.04.19

- 1 Changes/New
 - 1.1 When there is no file against UploadMdt2 Command, Send Command sequence value
 - 1.2 Change register for Monitor out
 - 1.2.1 addr: 0x1c94130, value: 0x00090360
 - 1.2.2 addr: 0x1c9411c, value: 0x000000f0
- 2 Fixed
 - 2.1 G-sensor Custom mode setting value error
 - 2.2 G-sensor HARSHTURN_HZ_Y value error
 - 2.3 SPEED_OVER_VALUE=0, Speed over event setting OFF
 - 2.4 When press Panic button more than 2 seconds
 - 2.5 Car pulse, rpm error

Release Note. (2.0.0.RC7)

Date: 2018.03.14

- 1 Changes/New
 - 1.1 OBD II
 - 1.1.1 Add ATBS OBD II
 - 1.1.2 Add ELM327 OBD II
 - 1.2 Config
 - 1.2.1 Add [DEVICE] TACHO_TYPE
 - 1.2.2 Add [DEVICE] TACHO_GPS
 - 1.2.3 Add [DEVICE] TACHO_PULSE
 - 1.2.4 Add [DEVICE] TACHO_RPM
 - 1.2.5 Add [DEVICE] TACHO_SIGNAL
 - 1.2.6 Add [DEVICE] TACHO_RECORD_TEXT
 - 1.2.7 Add [DEVICE] TACHO_SEND_HEALTH
 - 1.2.8 Add [DMS5] NET_IMAGE_SCALE
 - 1.3 Network
 - 1.3.1 Modem turn-on delay change (5sec -> 20sec)
 - 1.3.2 Add Test SIM Process
 - 1.4 Syslog: remove warning message which we wrote every 10seconds.

Release Note. (2.0.0.RC6)

Date: 2018.02.26

- 2 Changes/New
 - 2.1 support LE910 SV (Verizon) modem (USB protocol type: 2)

Release Note. (2.0.0.RC5)

Date: 2018.02.26

- 3 Changes/New
 - 3.1 Network
 - 3.1.1 Add LE910-NA1, LE910-SV1, LE910-JN1
 - 3.1.2 Add LE910-EUG
 - 3.1.3 Add Huawei ms2372 dongle
 - 3.1.4 Add [3G/LTE] NET_3G_DONGLE
 - 3.1.5 Support Open password Wi-Fi
 - 3.2 Setting range change
 - 3.2.1 Range 0, 2~1440 (seconds)
 - ✓ [RECORD] MEDIA_EXPIRE_TIME
 - ✓ [RECORD] SD_DRIVING_EXPIRE_TIME
 - 3.2.2 #####REC_PRE: Range 0~20 (seconds)
 - 3.2.3 #####REC_POST: Range -1, 1~30 (seconds)
 - ✓ [RECORD] EVTREC_POST
 - ✓ [EVENT] GSENSOR_REC_PRE
 - ✓ [EVENT] GSENSOR_REC_POST
 - ✓ [EVENT] RECBTN_REC_PRE
 - ✓ [EVENT] RECBTN_REC_POST
 - ✓ [EVENT] SPEED_OVER_REC_PRE
 - ✓ [EVENT] SPEED_OVER_REC_POST
 - ✓ [EVENT] ALARMIN#_REC_PRE (#: 0~2)
 - ✓ [EVENT] ALARMIN#_REC_POST (#: 0~2)
 - ✓ [EVENT] SIGNAL#_REC_PRE (#: 0~5)
 - ✓ [EVENT] SIGNAL#_REC_POST (#: 0~5)
- 4 Fixed
 - 4.1 If CH2 event recording is on and off during CH1 event recording, it cannot create new event file. => debug this error.
- 5 Etc.
 - 5.1 Add [DBG_DEV] DBG_DEV_MODEM_SIGNAL

Release Note. (2.0.0.RC4)

Date: 2018.02.09

- 6 Changes/New
 - 6.1 Overwrite (Add a time condition)
 - 6.1.1 [RECORD] MEDIA_EXPIRE_TIME

- 6.1.2 [RECORD] SD_DRIVING_EXPIRE_TIME
- 6.2 Add Event PRE/POST time settings per event
 - 6.2.1 [EVENT] GSENSOR_REC_PRE
 - 6.2.2 [EVENT] GSENSOR_REC_POST
 - 6.2.3 [EVENT] RECBTN_REC_PRE
 - 6.2.4 [EVENT] RECBTN_REC_POST
 - 6.2.5 [EVENT] SPEED_OVER_REC_PRE
 - 6.2.6 [EVENT] SPEED_OVER_REC_POST
 - 6.2.7 [EVENT] ALARMIN#_REC_PRE (#: 0~2)
 - 6.2.8 [EVENT] ALARMIN#_REC_POST (#:0~2)
- 6.3 Add Micom low-clock mode

- 7 Fixed
 - 7.1 Correct issues when Overwriting (delete event file)
 - 7.2 Correct issues when Overwriting (delete continuous file)
 - 7.3 Correct issues of DMSCMD_DOWNLOADSETTING Command => VehicleNo, DriverId
 - 7.4 Correct Car speed pulse 10~20% difference issue
 - 7.5 Correct Event recording issue (When 2 events recording channel is not same)

Release Note. (2.0.0.RC3)

Date: 2018.01.26

- 8 Changes/New
 - 8.1 Added Support for WiFi dongle (Realtek chipset only)

- 9 Fixed
 - 9.1 Debug micom watchdog
 - 9.2 Correct SD record error alarm
 - 9.3 Debug UploadEvent API delay
 - 9.4 Correct DMSCMD_ALARMOUTCTRL alarm out time.
 - 9.5 Correct CH and FPS setting error
 - 9.6 Debug UploadDrv API
 - 9.7 Debug GPS valid value 0
 - 9.8 Correct DST setting

Release Note. (2.0.0.RC2)

Date: 2018.01.17

- 10 Changes/New
 - None

- 11 Fixed
 - 11.1 Correct any delayed SD recognition when booted to an SD that supports UHS functionality
 - 11.2 Correct the problem of the last character be truncated when entering the 20 characters into the vehicle number.

- 11.3 Correct [RECORD] ENC_USERPWD value can be set to out of specification values
- 11.4 Correct any issues that do not work as specified when the maximum log count and [SYSTEM] LO_COUNT settings for an existing log file are different

Release Note. (2.0.0.RC1)

Date: 2017.12.18

- 1 Changes/New
 - 1.1 Add Driver ID Device (RF ID card)
 - 1.1.1 Write DRIVER_ID_CHANGE log when it receives the Driver ID
 - 1.1.2 [DEVICE] DRIVERID_SOURCE
 - 1.1.3 [DEVICE] S3_DEVICE
 - 1.2 Changed related to memory management
 - 1.2.1 Record memory and Event Record memory related behavior change
 - 1.2.2 When Gst buffer use is more than 70%, do not change bitrate
 - 1.3 Add SD power reset delay 100msec
 - 1.4 DMSCMD_SERVERNOTIWAV: Enable All sound sources playback
- 2 Fixed
 - 2.1 Correct problem of accessing incorrect memory when USB modem mount failed
 - 2.2 Correct rebooting when GPS initialization failed
 - 2.3 Correct recording problem (If FHD camera are connected to channel 2 during use of HD camera on Channel 2 &3.
 - 2.4 Correct DMS5 issue when insert ReadOnly SD
 - 2.5 Correct [EVENT] SPEED_OVER_RECCH setting max. 1
 - 2.6 Correct the problem of CONFIG_UP log setting file results

Release Note. (1.1.0)

date : 2017.11.01

Release 1.1.0 version after test 1.1.0.RC3 version

Release Note. (1.1.0.RC3)

date : 2017.10.13

- 1 Changes/New
 - 1.1 Support DMSCOMD_SERVERNOTIWAV
 - 1.2 Configuration
 - 1.2.1 NET_3G_DIAL, NET_3G_USER, NET_3G_PASS, NET_3G_SMSC characters up to 64
 - 1.2.2 Setting name change
 - ✓ TV_OUT_ENABLE -> DEFAULT_CHANNEL

- ✓ SD_SLIDELock_ENABLE -> SD_EJECT_LOCK_ENABLE
- ✓ GSENSOR_BUZZERON -> GSENSOR_AUDIO_OUT
- ✓ RECBTN_BUZZERON -> RECBTN_AUDIO_OUT
- ✓ SPEED_OVER_BUZZERON -> SPEED_OVER_AUDIO_OUT
- ✓ ALARMIN0_BUZZERON -> ALARMIN0_AUDIO_OUT
- ✓ ALARMIN1_BUZZERON -> ALARMIN1_AUDIO_OUT
- ✓ ALARMIN2_BUZZERON -> ALARMIN2_AUDIO_OUT
- 1.2.3 Default setting change
 - ✓ BUZZER_ON (0->1)
- 1.3 Refactoring
 - 1.3.1 Network IPC Process (DMSCMD process)
 - 1.3.2 Record Thread
 - 1.3.3 Event Structure
- 2 Fixed
 - 2.1 Debug Driver ID
 - 2.2 Debug SD SLIDE LOCK(SD EJECT LOCK)

Release Note. (1.1.0.RC2)

date : 2017.09.25

- 3 Changes/New
 - 3.1 [DEVICE] TV_OUT_CHANNEL default value change to 4 splits
 - 3.2 [SYSTEM] LIVEOUT_PRIORITY range from 1 to 5
- 4 Fixed
 - 4.1 DMSCMD_UPLOADSETTING bug
 - 4.2 [CONFIG] CONFIG_STORE_ENABLE bug

Release Note. (TX4000 1.1.0.RC1)

date : 2017.09.22

- 1 Changes/New
 - 1.1 Event => change video out channel
 - 1.2 Add Video out GUI
 - 1.2.1 CAM Title
 - 1.2.2 Normal record/Event record Icon
 - 1.2.3 Camera type Icon
 - 1.2.4 Video loss Icon
 - 1.2.5 Event (alarm in/alarm out/g-sensor) Icon
 - 1.2.6 Time
 - 1.3 Change Overwrite action
 - 1.3.1 Not use Rtx file
 - 1.4 Telit module 12.00.228 or higher version support Fast shutdown
 - 1.5 Add modem version, device, vendor on LOG_TYPE_IMEI_UP log
 - 1.6 Add watchdog touch during SD unmount, SD Format
 - 1.7 Add Check M1 Button initial status when start.

- 1.8 Remove delay when change record mode to Parking mode
- 1.9 Add Record title frame
- 1.10 Changed Settings
 - 1.10.1 GPS Filter: default value not use
 - 1.10.2 AutoFormat: default value not use
 - 1.10.3 [CONFIG] default value
 - ✓ CONFIG_STORE_ENABLE=0 -> 1
 - ✓ CONFIG_SD_DELETE=0 -> 1
 - 1.10.4 High Temperature Protection
 - ✓ T_{3G_off}(79), T_{3G_on}(74), T_{pw_off}(89), T_{m_on}(84)
- 1.11 Add more settings on Setting.ini
 - 1.11.1 [DEVICE]
 - ✓ TV_OUT_CHANNEL
 - 1.11.2 [EVENT]
 - ✓ GSENSOR_LIVEOUT
 - ✓ GSENSOR_LIVEOUT_DURATION
 - ✓ RECBTN_LIVEOUT
 - ✓ RECBTN_LIVEOUT_DURATION
 - ✓ SPEED_OVER_LIVEOUT
 - ✓ SPEED_OVER_LIVEOUT_DURATION
 - ✓ ALARMIN0_LIVEOUT
 - ✓ ALARMIN0_LIVEOUT_DURATION
 - ✓ ALARMIN1_LIVEOUT
 - ✓ ALARMIN1_LIVEOUT_DURATION
 - ✓ ALARMIN2_LIVEOUT
 - ✓ ALARMIN2_LIVEOUT_DURATION
 - 1.11.3 [SYSTEM]
 - ✓ LIVEOUT0_PRIORITY
 - ✓ LIVEOUT1_PRIORITY
 - ✓ LIVEOUT2_PRIORITY
 - ✓ LIVEOUT3_PRIORITY
 - ✓ LIVEOUT41_PRIORITY
- 1.12 SYSTEM
 - 1.12.1 Changed CPU Clock 480Mhz -> 912Mhz
 - 1.12.2 Changed Gst buffer 200MB -> 100MB
 - 1.12.3 Changed Video Thread stack size 8MB -> 128KB
 - 1.12.4 nvp6124b equalizer disable
 - 1.12.5 Changed nvp6124b register value
 - ✓ DEV_PRE/POSTCLK(bank1 0x8E) : 0x0A -> 0x1B
 - ✓ VCLK_SEL(bank1 0xCD) : 0x18 -> 0x1B
 - 1.12.6 Changed NAND filesystem to cramfs
- 2 Fixed
 - 2.1 DMSCMD_GOTOVIDEO function
 - 2.2 Encoder uv size
 - 2.3 SD Slide Lock Record Off (Record Off Log)
 - 2.4 SD Slide Lock Record Off => Memory Full
 - 2.5 Disconnected channel record I-Frame and P-Frame as well
 - 2.6 Change Alarm in detect algorithm (1~2fps)
 - 2.7 PAL 12fps => 13fps
 - 2.8 Normal record file type => post type