

FM-Tco4 HCV product change log file

Date	Firmware	Description
2019 08 23	00.03.37.05	<ul style="list-style-type: none"> - Bug fix: LCV parameters upload extension; #4224 - Bug fix: DOUT drivers issue fix; #4231 - Feature: OBD Improvements and optimization; #3901 - Feature: ATT protocol improvement; #4302 - LCV change: RENAULT9; #3689 <p># Recommended FM4 Configurator 00.03.37.03;</p>
2019 08 02	00.03.36.06	<ul style="list-style-type: none"> - Bug fix: Removed CAN battery power parameter resetting after can timeout; #4100 - Bug fix: Incorrec led blinking fix; #3989 - Bug fix: Tachograph message counter fix; #4042 - Bug fix: GNSS parser buffer fix; #4129 - Bug fix: MovSensor during DeepSleep sensitivity fix; #4135 - Bug fix: Losing weighting system records; #3841 - Feature: Removed Honeywell solution; #4128 - Feature: Removed ATOL tacho solution; #4127 - LCV new: HYUNDAI14; #3315 - LCV new: VAG26; #3684 <p># Recommended FM4 Configurator 00.03.36.07;</p>
2019 07 12	00.03.35.08	<ul style="list-style-type: none"> - Bug fix: getcfg authorized IDs fix; #3991 - Bug fix: GNSS reset improvement; #4108 - Feature: GNSS startup sequence improvements; #4076 - Feature: SSL (TLS) support in 3G devices; #3282 - LCV new: BMW7; #3654 <p># Recommended FM4 Configurator 00.03.35.03;</p>
2019 06 21	00.03.34.07	<ul style="list-style-type: none"> - Bug fix: Eco-drive idling event-based DOUT status stuck; #3921 - Bug fix: GPS fix; #3992 - Feature: Thailand configurable (disable/enable) GPRS command; #3964 - Feature: OBD K-Line improvements; #3947 - Feature: Tacho improvement for 2nd generation; #3661 <p># Recommended FM4 Configurator 00.03.34.05;</p>
2019 05 31	00.03.33.06	<ul style="list-style-type: none"> - Feature: MR688B fatigue sensor improvements; #3701 - Feature: GSM and GNSS test mode; #3740 - Bug fix: Losing weighting system records; #3841 - BugFix: tachograph improvements in communication layer; #3100 <p># Recommended FM4 Configurator 00.03.33.04;</p>

2019 05 10 00.03.32.14

- Feature: DOUT activation by Rollover; #3573
- Feature: manufacturing improvements; #3760
- Feature: automatic APN selection; #3746
- Feature: SMS ID; #3752
- BugFix: dashboard backlight on; #3744
- # Recommended FM4 Configurator 00.03.32.05;

2019 04 19 00.03.31.07

- Bug fix: Towing detection did not work with some configurations; #3660
- Bug fix: Constant Eco panel re-initialization; #3625
- Bug fix: Virtual odometer value is being updated when ignition is OFF; #3341
- Bug fix: Camera file handling improvements; #3263
- Bug fix: General FW fixes; #3706
- Feature: RFID reader configurable baudrate; #3616
- Feature: [Draft] DOUT activation by Rollover; #3573
- Feature: Immobilizer improvements; #3519
- # Recommended FM4 Configurator 00.03.31.07;

2019 03 29 00.03.30.10

- Bug fix: "info time" SMS answer; #3531
- Bug fix: Frequency input after sleep; #3114
- Feature: 1-Wire temperature sensor issues; #3461
- # Recommended FM4 Configurator 00.03.30.04;

2019 03 07 00.03.29.10

- Feature: OCSP SSL revocation validation; #3415
- Feature: Enable/Disable calls from unauthorized numbers; #3351
- Feature: Active navigation filtering; #3464
- # Recommended FM4 Configurator 00.03.29.08;

2019 02 15 00.03.28.13

- Bug fix: UG96 modem resetting; #3274
- Bug fix: Setcfg fails if it contains "2c"; #3340
- Bug fix: Tachograph reading objects issue in VDO model; #3275
- Feature: MR688B fatigue sensor support; #3143
- # Recommended FM4 Configurator 00.03.28.05;

2019 01 24 00.03.27.06

- Bug fix: Fake accident events generated after ignition on; #3193
- Feature: Configurable stationary navigation filtering; #3228
- # Recommended FM4 Configurator 00.03.27.05;

2018 12 21 00.03.26.09

- Bug fix: Profile switching is not working; #3047
- Bug fix: Modem initialisation correction; #3050
- Bug fix: Movement detection; #3006
- Bug fix: Tachograph improvements; #3100
- Feature: Accident detection improvements, automatic accelerometer recalibration; #3104
- Feature: Device Up Time info functionality added; #3170
- # Recommended FM4 Configurator 00.03.26.05;

2018 12 07 00.03.25.01

- Bug fix: Info SMS wrong response fix; #3026
- Feature: Added Haldex trailer odometer parameter; #2990
- Feature: Internal improvements; #2988
- # Recommended FM4 Configurator 00.03.25.04;

2018 11 16 00.03.24.06

- Bug fix: Tachograph module configuration improvement; #2891
- Bug fix: Manufacturer improvements; #3019
- Feature: Inverted DOUTs; #2869
- Feature: Configurable input for passenger registration; #2864
- Feature: Filter by engine functionality for DXP CAN; #2854
- Feature: SMS over GPRS password check disabling; #2899
- LCV change: VAG22; #2890
- # Recommended FM4 Configurator 00.03.24.04;

2018 10 26 00.03.23.03

- Feature: Bootloader version update; #2882
- Feature: [Beta] SSL revocation validation; #2790
- Feature: Dynamic ID string; #2826
- Feature: Sending only header information in records by trigger ID; #2768
- Bug fix: Battery charging algorithm improvements; #2601
- Bug fix: Modem firmware update fix; #2936
- # Recommended FM4 Configurator 00.03.23.04;

2018 10 05 00.03.22.05

- Bug fix: WDT improvements; #2772
- Bug fix: Modem state after losing GPRS handling improvements; #2803
- Bug fix: "info" SMS "io" data fix; #2715
- Bug fix: LCV symbols with extended message id don't work on HCV; #2885
- Feature: Distance calculation mechanism for LCV; #2750
- Feature: [Draft] Sending only header information in records by trigger ID; #2768
- Feature: RS232 camera functionality without SD card; #2551
- Feature: [Beta] IO live data over USB support; #2666
- Feature: Automatic accelerometer calibration; #2227
- LCV change: CITROEN2; #2720
- # Recommended FM4 Configurator 00.03.22.05;

2018 09 14 00.03.21.12

- Bug fix: RFS End of file flood; #2618
- Bug fix: Response to SMS over GPRS sending fix; #2514
- Bug fix: Debug information improvements (BLE);
- Bug fix: Custom sleep RS-232 and RS-485 slow down issues fix; #2616
- Bug fix: Prevent camera from initializing in custom sleep without RS-232; #2615
- Bug fix: K-Line OBD DTC reading fix; #2746
- Bug fix: Tachograph authentication fix; #2754
- Bug fix: Stability improvements; #2719
- Feature: Configurable Z axis in Impact detection; #2670
- Feature: Possibility to exclude brake switch from eco-drive braking events calculation; #2697
- LCV new: VAG27; #2596
- # Recommended FM4 Configurator 00.03.21.03;

2018 08 24 00.03.20.13

- Bug fix: Operator is blacklisted after a call; #1214
 - Bug fix: Econnect sometimes connects to the wrong server; #2529
 - Bug fix: Custom SMS alert message not working properly; #2619
 - Bug fix: DOUT switching frequencies drifted; #2501
 - Feature: Internal record management system optimization; #1824
 - Feature: Periodical redirect; #2504
 - Feature: New IO: AdBlue level; #2412
- # Recommended FM4 Configurator 00.03.20.06;

2018 08 03 00.03.19.10

- Bug fix: Hard fault after server sends too many TC messages; #2524
 - Bug fix: Unknown command received after TC message; #2378
 - Bug fix: IMEI transparent channel printing error; #2550
 - Bug fix: Transparent channel message stalls record sending; #2520
 - Bug fix: Link opening fix; #2270
 - Bug fix: Tacho sms; #2547
 - Bug fix: FW wont open link to server; #2510
 - Feature: Kionix accelerometer support; #2215
 - Feature: Configurable baudrate for DXP CAN; #2493
 - Feature: RS232 camera integration; #1513
- # Recommended FM4 Configurator 00.03.19.05;

2018 07 12 00.03.18.04

- Bug fix: Weighing system improvement; #2423
 - Bug fix: Certain SMS is not being processed; #2458
 - Bug fix: Eco-Panel LED blinking frequencies changed; #2408
 - Feature: Tachograph improvements; #678
 - Feature: Old Self Test protocol unsupported; #2099
 - Feature: New IO element "Geozone group"; #2356
- # Recommended FM4 Configurator 00.03.18.03;

2018 06 20 00.03.17.06

- Bug fix: Device does not start sending records after profile switch; #2349
 - Bug fix: Transparent channel corrupted data sending; #2303
 - Bug fix: USSD timeout; #2374
 - Bug fix: Wrong coordinates (Manila bus); #2389
 - Feature: Available to get data from OBD and Mobileye from separate CAN lines; #2294
 - Feature: Incremental timeout for server connection attempts; #2218
 - Feature: New IO for FLS disconnect warning; #2353
- # Recommended FM4 Configurator 00.03.17.01;

2018 05 31 00.03.16.06

- Bug fix: Server gets wrong answer to TachoInfo message; #1996
- Bug fix: Filter by engine does not filter fuel rate parameter; #2177
- Bug fix: Nissan11 LCV group fix; #2273
- Bug fix: Device fails to read IMEI; #2292
- Feature: CAN values reset when VIN is changed; #2267
- Feature: Manufacturer improvements; #7393
- Feature: Internal improvements; #2191
- Feature: Debug information improvements; #2173

2018 05 10 00.03.15.17

- Bug fix: Negative DINs configuration; #2184
 - Bug fix: Transparent Channel stops sending packets; #2195
 - Bug fix: Device does not connect to operators according to the priority list (affects 3G devices only); #2165
 - Bug fix: Eco-Drive faulty triggers; #2097
 - Feature: New IO for Spreader Brine Percentage; #2178
 - Feature: Internal led driver improvements; #2126
 - LCV new: KIA11; #1296
- # Recommended FM4 Configurator 00.03.15.06;
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2018 04 19 00.03.14.07

- Bug fix: Stack overflow when trying to update UG96 modem FW; #2106
 - Bug fix: With no GSM operator was profile switch to first empty profile; #1619
 - Feature: Buzzer beep in case of cornering detection feature added; #2069
 - Feature: Internal FM-Plug4 project improvements; #2020
 - Feature: Internal OBD functionality improvements; #2131
- # Recommended FM4 Configurator 00.03.14.02;
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2018 03 28 00.03.13.12

- Bug fix: Incorrect electric motor temperature value; #2038
 - Bug fix: Serial port wakeup after sleep; #2027
 - Bug fix: Update mechanism improvements; #1536
 - Feature: Internal testing protocol improvement; #2057
 - Feature: Accelerometer data processing improvement; #1950
 - Feature: Sleep state IO parameter; #1989
 - Feature: DOUT management using USSD commands; #1736
- # Recommended FM4 Configurator 00.03.13.03;
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2018 03 08 00.03.12.18

- Bug fix: Eco-Panel beeper issue; #1764
 - Bug fix: Registration alert issue; #1921
 - Bug fix: Ã~ character corrupts a message; #1919
 - Bug fix: Eco-Drive cruise control in CAN+GPS mode; #1976
 - Bug fix: Device is not responding to Tacho SMS; #1851
 - Feature: Added Eco-Drive anticipation parameters; #1691
 - Feature: LCV data optimization; #1748
 - Feature: Use FAT file system in SD card; #824
 - Feature: Power consumption optimizations; #1582
 - Feature: Integration of UHF-RFID reader; #1797
 - Feature: New SMS command for accelerometer calibration with SMS reporting; #1934
 - Feature: Device-Server communication improvements;
- # Recommended FM4 Configurator 00.03.12.05;
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2018 02 19 00.03.11.07

- Bug fix: Modem FW update issue; #1553
- Bug fix: Modem hard reset doesn't work; #1146
- Bug fix: Link timeout calculation; #1786
- Feature: Device-Server communication improvements;
- Feature: SMS forwarding functionality; #1836

- Feature: Configurable GSM Audio settings; #1767
Recommended FM4 Configurator 00.03.11.02;

2018 01 25 00.03.10.05

- Bug fix: Mercedes 2 incorrect fuel rate; #1715
- Bug fix: Modem FW update issues; #1212
- Bug fix: Device temporarily halts records system after "delrecords" command #1710
- Feature: FM-Eco4S support added; #1774
- Feature: Improvements in Mercedes17 group; #1476
Recommended FM4 Configurator 00.03.10.01;

2018 01 10 00.03.09.10

- Bug fix: Sleep mode kline failed #1678
- Bug fix: Sleep timer IO; #1671
- Bug fix: Connectivity issues; #1683
- Bug fix: 3G version recognition issues; #1731
- Feature: Eco-Drive panel functionality improvements; #1595
Recommended FM4 Configurator 00.03.09.01;

2017 12 21 00.03.08.11

- Bug fix: Frequency inputs show wrong value; #1550
- Bug fix: Problems with tachograph status SMS; #1161
- Bug fix: Weighting system loop with incorrect data fix; #1527
- Feature: New SMS command for device lock state; #1432
- Feature: Eco-Drive solution improvement; #1505
- Feature: Secure socket layer TLS 1.2 support; #1178
- Feature: DOUT activation from GSM jamming; #1503
- Feature: IO "TCO tacho time" and IO "TCO_CAN tacho time" monitoring improvements; #7020
- Feature: Heartbeat; #1479
Recommended FM4 Configurator 00.03.08.10;

2017 11 30 00.03.07.08

- Bug fix: Mandatory registration with DIN3; #1430
- Bug fix: IO hysteresis with signed level; #1412
- Bug fix: LCV Autoselect progress bar fix; #1435
- Bug fix: Record sending improvements; #753
- Bug fix: Constant link connection drop; #1276
- Bug fix: Problems with Eco-drive cornering detection from GPS; #1280
- Feature: Thailand Driver registration logic improvements 3rd iteration; #1278
- Feature: DXP CAN optimization; #1271
- Feature: Full support for the updated FMS standard; #1293
- Feature: General improvements; #1467
Recommended FM4 Configurator 00.03.07.05;

2017 11 15 00.03.05.00

- Bug fix: Mobileye detection fixes; #1316
- Bug fix: Passenger registration with blocking mode indication bug; #1226
Recommended FM4 Configurator 00.03.06.02;

2017 10 30 00.03.04.15

- Hot fix: Device do not initiate record sending; #1031
- Hot fix: Tachograph functionality improvements; #1266

2017 10 18 00.03.04.14

- Bug fix: "NO GPS time" message flood; #1047
 - Bug fix: GSM tracking bad HDOP value; #1123
 - Bug fix: Eco-Drive engine state changes rapidly; #864
 - Bug fix: Device fails to identify hardware version; #1228
 - Bug fix: CAN doesn't work after waking up from custom sleep; #1151
 - Bug fix: LED/Buzzer can't keep up to fast registration; #81
 - Bug fix: Modem functionality correction when is phone call; #801
 - Bug fix: Modem functionality corrections when is SMS configuration; #1129
 - Bug fix: Configuration via SMS improvement; #1222
 - Feature: LED/Buzzer improvement; #1057
 - Feature: Record sending optimization; #189
 - Feature: Configuration convenience improvements; #1006
 - LCV new: TOYOTA8; #845
- # Recommended FM4 Configurator 00.03.04.11;
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2017 09 29 00.03.03.12

- Bug fix: Eco-Drive idling beep; #1072
 - Bug fix: Fuel used calculation improvements; #1114
 - Feature: Engine braking distance; #1022
 - Feature: New SMS command to set LCV group; #893
 - Feature: VDO tachograph files reading trough K-Line interface(front); #949
 - Feature: New event for Tachograph elements; #1073
- # Recommended FM4 Configurator 00.03.03.06;
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2017 09 11 00.03.02.16

- Bug fix: Open link with server - Min records; #931
 - Bug fix: SMS set io parameters improvement; #985
 - Bug fix: Transparent channel escape character (0x7D) fix; #934
 - Bug fix: Time synchronization fix; #963
 - Bug fix: SD card bandwidth; #824
 - Bug fix: DXP Speed data parsing; #701
 - Bug fix: Custom sleep SMS improvement; #903
 - Bug fix: Immobilizer state preservation after reset; #991
 - Bug fix: Added wheel based speed MERCEDES2; #993
 - Feature: Application data saving mechanism improvements; #979
 - Feature: Possibility to get data from FMS and Mobileye from separate CAN lines added; #794
 - Feature: IO parameter debounce improvement; #1007
 - Feature: Blocking improvements; #876
 - Feature: Possibility to get data from OBD and LCV from separate CAN lines added; #796
- # Recommended FM4 Configurator 00.03.02.07;
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2017 08 10 00.03.01.04

- Bug fix: ECO Driving parameters reset; #652
- Bug fix: ThermoKing fuel level;
- Bug fix: Immobilizer SMS improvement; #884
- Bug fix: LCV Autoselect enable improvement; #837
- Bug fix: AIN delta; #619
- Bug fix: Max speed and max RPM for ECO-Driving; #859
- Bug fix: DDD file deleting from internal memory; #636 #637

- Bug fix: Tachograph communication fix; #749
- Feature: General architecture improvements;
- Feature: Customize SMS alert text; #666
- LCV new: TOYOTA7; #624
Recommended FM4 Configurator 00.03.01.02;

2017 07 26 00.02.33.21

- Feature: FMPG4-6 hardware support added;
- Feature: FMP4-15 hardware support added;
Recommended FM4 Configurator 00.02.60.00;

2017 07 18 00.02.33.20

- Bug fix: device stuck at certain conditions when DFS enabled;
Recommended FM4 Configurator 00.02.59.12;

2017 07 12 00.02.33.19

- Bug fix: device-server communication error;
Recommended FM4 Configurator 00.02.59.12;

2017 07 04 00.02.33.18

- Bug fix: HRLFC value jumps;
- Bug fix: Device stability improvements;
Recommended FM4 Configurator 00.02.59.12;

2017 06 28 00.02.33.17

- Bug fix: link is closed during tachograph authentication;
- Bug fix: Magnetic card reader;
- Feature: DOUT activation by speed, AIN or DIN;
- Feature: LED Display integration;
- LCV new: MINI1;
- LCV new: FIAT10;
- LCV change: LEXUS3;
- LCV change: VAG8;
Recommended FM4 Configurator 00.02.59.12;

2017 06 07 00.02.32.02

- Bug fix: Unwanted ringtone on incoming call;
- Bug fix: Device does not send response to SMS command "dfota" after modem firmware update;
- Bug fix: Tacho configuration;
- Feature: ThermoKing functionality improvements;
- Feature: Calc HRFC for HCV CAN mode;
- Feature: I/O enabling after LCV Auto select;
Recommended FM4 Configurator 00.02.57.08;

2017 05 19 00.02.31.04

- Bug fix: EcoDrive brake counter;
- Bug fix: setvalue SMS;
- Bug fix: Device restarts during LCV Auto Select
- Feature: Customizable sleep;
- Feature: CAN bus Distance and fuel Consumption filters improvements;
- Feature: Ignore overspeeding when fuel rate is below the configured value;
- Feature: RPM red band distance IO;

2017 04 28 00.02.30.15

- Bug fix: Fuel Counter DIN reading stability improvements;
 - Bug fix: HDOP filter;
 - Bug fix: "setioparam" SMS improvements;
 - Bug fix: GNSS Mode selection;
 - Bug fix: "setcfg" SMS authorized number length;
 - Bug fix: "info" SMS;
 - Bug fix: modem error handling improvement;
 - Feature: Ignore RPM red band when fuel rate is below the configured value;
 - Feature: GSM-based tracking;
 - Feature: J1708 DTC implementation;
 - HCV change: MERCEDES17
- # Recommended FM4 Configurator 00.02.53.11;
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2017 04 05 00.02.29.14

- Bug fix: Inaccurate GSM signal level when there is constant link with server;
 - Bug fix: Virtual odometer when Engine off;
 - Bug fix: DOUT stuck on profile switch;
 - Bug fix: "setio" command improvement for DOUT control;
 - Feature: GPRS improvements;
 - Feature: ATOL tachograph integration;
 - Feature: OBD functionality improvements;
 - Feature: iButton DS1971 EEPROM functionality;
 - Feature: J1939 DTC implementation;
 - LCV new: MITSUBISHI11;
 - LCV change: NISSAN10;
- # Recommended FM4 Configurator 00.02.50.07;
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2017 03 10 00.02.28.05

- Feature: Magnetic card reader improvement;
- Bug fix: RFID validation time;
- Bug fix: Spreader string parser;
- Bug fix: Wake up from Sleep mode on event;
- Bug fix: Initialization of CAN interfaces in Silent mode;
- Bug fix: setconnection SMS not working;
- Bug fix: RTC startup improvements;
- Bug fix: DDD download process hangs;
- Bug fix: Wrong driver card ID (tacho object);
- LCV new: BRILLIANCE1;
- LCV new: CHANGAN1;
- LCV new: CHERY1;
- LCV new: CHERY2;
- LCV new: CHERY3;
- LCV new: CHRYSLER5;
- LCV new: FAW1;
- LCV new: FIAT9;
- LCV new: FORD21;
- LCV new: FORD22;
- LCV new: GEELY1;
- LCV new: HYUNDAI11;

- LCV new: HYUNDAI12;
- LCV new: JAGUAR2;
- LCV new: KIA10;
- LCV new: KIA8;
- LCV new: KIA9;
- LCV new: LANDROVER3;
- LCV new: LANDROVER4;
- LCV new: LEXUS7;
- LCV new: LIFAN1;
- LCV new: MERCEDES19;
- LCV new: MITSUBISHI10;
- LCV new: OPEL11;
- LCV new: SSANGYONG2;
- LCV new: SUZUKI2;
- LCV new: VAG24;
- LCV new: VAG25;

Recommended FM4 Configurator 00.02.49.07;

2017 02 15 00.02.27.04

- Bug fix: Eco-Drive start after CFG update;
- Bug fix: Responce to incoming call;
- Bug fix: GSM Time synchronization;
- Bug fix: Can't configure operator blacklist with SMS;
- Feature: ECO-Driving Custom Engine state;
- Feature: Eco-Drive Engine state improvements;
- Feature: new SMS for USSD communication;
- Feature: Added new LCV group VOLVO7 for Volvo s60 2003;

Recommended FM4 Configurator 00.02.47.07;

2017 02 01 00.02.26.10

- Bug fix: J1708 configuration improvements;
- Bug fix: Changing Authorized numbers with setcfg SMS;
- Bug fix: for 3G devices authentication method PAP_or_CHAP is selected when APN user or APN password is used;
- Bug fix: Constant TCP link improvement for CFG over GPRS;
- Bug fix: CAN stuck in during DDD download;
- Feature: CAN bus filters by engine state;
- Feature: Ignition state from CAN bus in some LCV groups;
- Feature: LCV Auto select improvements;
- Feature: Added new LCV group CLAAS2 for Claas Arion 640;
- Feature: Added new HCV group MERCEDES18 for Mercedes Benz O500;
- Feature: Added Driver ID parameters to HCV Truck2 group;
- Feature: Added new tachograph EFAS;
- Feature: Platform for satellite communication;
- Feature: Added new LCV group Citroen12 for Toyota Proace 2016;
- Feature: Keep TCO parameter values while engine is OFF;
- Feature: Configurable DIN3;
- Feature: Trailers VIN reading;
- Feature: TPMS data for J1939;

Recommended FM4 Configurator 00.02.46.15;

2016 12 22 00.02.25.24

- Bug fix: Link timeout during FW/CFG update;
- Bug fix: Eco-Drive panel functionality improvements;
- Feature: Manila project;
- Feature: Ignore space in password (SMS);
- Feature: Constant TCP link;
- Feature: Configuration improvements;
- Feature: Remote Debug improvements;
- Feature: Averaging for fuel level parameters enabled;
- Feature: Added new parameter Intake Air Temperature for FMS, Tractor1, Truck2 groups;
- Feature: Customizable SMS command;
- Feature: Configurable towing event delay;
- # Recommended FM4 Configurator 00.02.43.21;

2016 12 08 00.02.24.07

- Hot fix: Internal diagnostics for battery;
- # Recommended FM4 Configurator 00.02.42.04;

2016 12 06 00.02.24.06

- Bug fix: Delay for answer to server after FW update;
- Bug fix: Custom ignition works inaccurately;
- Bug fix: Setting blacklist operators via SMS fix;
- Feature: SPI driver improvement;
- Feature: FMP4-14 HW supported;
- Feature: Added new LCV group VAG23 for VW Polo 2016;
- Feature: Added new LCV group BMW6 for BMW i3 hybrid 2015;
- Feature: Added new HCV group MERCEDES17 for Mercedes Atego 2016;
- # Recommended FM4 Configurator 00.02.42.04;

2016 11 02 00.02.23.08

- Bug fix: Protocol changing with "setcfg" SMS;
- Bug fix: MobilEye values reset;
- Bug fix: EcoDrive Idling calculations improvements;
- Bug fix: Unable to get VIN and Driver ID via FMS;
- Feature: AT command engine improvement;
- Feature: Improved CanBus hours to service parameter for Linde forklifts;
- Feature: Outgoing phone call;
- Feature: Configurable DOUT pattern;
- Feature: Added new LCV group Hyundai10 for Hyundai i20 2016;
- Feature: Added new LCV group Kia7 for Kia Sorento 2015;
- Feature: Added new parameter door status to Mercedes7 group;
- Feature: Engine ON for EcoDrive improvements;
- Feature: Custom Ignition improvement, adding OR logic;
- # Recommended FM4 Configurator 00.02.38;

2016 10 25 00.02.22.03

- Hot fix: Modem error handling improvements;
- # Recommended FM4 Configurator 00.02.37;

2016 10 14 00.02.22.02

- Bug fix: setiotime SMS answer;
- Feature: support FLS Technoton DUT-E;
- Feature: Rollover detection;

- Feature: Added new LCV group Suzuki1 for Suzuki Swift 2011;
 - Feature: Added new LCV group Mitsubishi9 for Mitsubishi Fuso Thunderbolt;
 - Feature: Created new CAN interface mode HCV;
 - Feature: DXP CanBus Integration;
 - Bug fix: LLS channel address detect;
 - Bug fix: No reconnection while link is opened (sms cmd econnect, connect)
- # Recommended FM4 Configurator 00.02.37;
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2016 09 19 00.02.21.07

- Bug fix: Profile switching during record generation;
 - Bug fix: GSM functionality watchdog increased;
 - Feature: Added new VOLVO6 LCV group for Volvo EC210B LC excavator;
 - Feature: Added new HITACHI1 LCV group for Hitachi ZX250 5G excavator;
 - Feature: Improved J1708 and LCV separation;
 - Feature: Added actual engine percent load parameter (J1939);
 - Feature: Extended error functionality for UG96 modem;
- # Recommended FM4 Configurator 00.02.35;
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2016 09 08 00.02.20.10

- Bug fix: Buzzer timeout deregistration;
 - Bug fix: Record generation during Deep sleep;
 - Bug fix: Buzzer timeout default value;
 - Bug fix: CAN and ECO Driving source reinitialization;
 - Bug fix: ECO Driving from CAN acceleration/braking;
 - Feature: DOUT Delay for Geofences;
 - Feature: Added FORD19 group for Ford Transit 2015;
 - Feature: Added FORD20 group for Ford Transit 2016;
 - Feature: Added new LCV parameter to RENAULT9 group;
 - Feature: Shock detection;
- # Recommended FM4 Configurator 00.02.34;
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2016 08 18 00.02.19.02

- Feature: Dual registration;
 - Feature: Driver and passenger registration improvement;
- # Recommended FM4 Configurator 00.02.32;
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2016 08 04 00.02.18.01

- Bug fix: Record saving during operator search;
 - Feature: ThermoKing DAS/CargoWatch Temperature sensors added;
 - Feature: Send IMEI to RS232/RS485;
 - Feature: Magnetic Card Reader;
 - Feature: Added new NISSAN10 LCV group for Nissan Leaf;
 - Feature: Added new LINDE1 LCV group for Linde forklifts;
- # Recommended FM4 Configurator 00.02.31;
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2016 07 26 00.02.17.04

- Bug fix: GNSS Mode selection;
 - Bug fix: "setiotime" SMS answer incorrect;
 - Bug fix: Sleep Timer in Deep Sleep mode;
 - Feature: Configurable buzzer duration;
 - Feature: Cumulative DIN hour counter;
- # Recommended FM4 Configurator 00.02.28;

2016 06 30 00.02.16.07

- Bug fix: Expanded ECO Driving calculations improvements;
 - Feature: Remote debug;
 - Feature: Alternative Data source selection for ECO Drive;
 - Feature: Additional ECO Drive modes;
 - Feature: LCV Auto select;
 - Feature: Added Trailers CAN interface;
 - Feature: LCV VAG22 group parameters resetting improvements;
 - Feature: Additional Nissan9 (LCV group) for Nissan NV200 added;
 - Feature: Added new LCV groups;
 - Feature: Added fuel rate and fuel consumption parameters in OPEL5 group;
- # Recommended FM4 Configurator 00.02.27;

2016 06 14 00.02.15.00

- Feature: FMP4-4 hardware supported;
 - Feature: Buzzer for driver registration;
- # Recommended FM4 Configurator 00.02.26;

2016 06 09 00.02.14.04

- Bug fix: Timestamp in extended records header;
 - Bug fix: Calculation of HRLFC during profile switching;
 - Bug fix: GNSS receiver restart when no fix;
 - Feature: CAN line Inspection;
 - Feature: Towing detection improvements;
 - Feature: Added DS1971 iButton support
 - Feature: uBlox internal filtering improvements;
 - Feature: Multipoint Geozones;
- # Recommended FM4 Configurator 00.02.24;

2016 05 05 00.02.13.01

- Feature: New IO GPRS_Status added;
 - Feature: New IO GPS_altitude added;
 - Feature: FMPG4-3 hardware supported;
- # Recommended FM4 Configurator 00.02.22;

2016 04 08 00.02.12.04

- Bug fix: Improved J1708 and J1939 separation;
 - Bug fix: can't allocate DDD file;
 - Bug fix: Improved tachograph (fixed server timeout);
 - Bug fix: Low priority towing event wakes up device;
 - Bug fix: EcoDrive data resetting;
 - Feature: 2nd level temporary blacklist;
 - Feature: Event data collection improvements;
 - Feature: K-Line TCO data (with bad CRC) discarding or passing;
 - Feature: Configurable CANbus FF values filter for FMS;
 - Feature: LCV improvements in Mercedes2 group;
- # Recommended FM4 Configurator 00.02.18;

2016 03 14 00.02.11.08

- Hot fix: IMEI fault in Diagnostics;
- # Recommended FM4 Configurator 00.02.16;

2016 03 10 00.02.11.07

- Feature: 3G modem FW update;
- Bug fix: Garmin does not work after deep sleep;
- Feature: K-Line improvements;
- Feature: HW recognition improvements;
- Feature: Additional VAG22 (LCV group) for Volkswagen E'up 2015 electric car added;
- Feature: Additional RENAULT9 (LCV group) for Renault Zoe 2015 car added;
- Feature: Additional Mitsubishi7 (LCV group) added;
- # Recommended FM4 Configurator 00.02.16;

2016 02 17 00.02.10.03

- Bug fix: GSMTask WatchDog Timer too short;
- Feature: Additional LCV vehicles added;
- Feature: FMPG4-1-1 hardware supported;
- # Recommended FM4 Configurator 00.02.14;

2016 02 05 00.02.09.04

- Bug fix: GSM03.38 charset conversion to ASCII;
- Bug fix: Tco4 does not recognise SIM cards (SIM Busy);
- Bug fix: Time from NTP could be wrong in some cases;
- Bug fix: FF values in EcoDrive from CAN;
- Bug fix: Modem sleep;
- Feature: Improved Tacho debug on CAN2;
- Feature: ThermoKing TouchPrint Integration;
- Feature: Towing detection in Sleep;
- # Recommended FM4 Configurator 00.02.13;

2016 01 18 00.02.08.00

- Feature: "Tco4" renamed to "Tco4 HCV";
- Feature: CAN bus baud rate improvement;
- Feature: Unlimited iButton;
- Feature: Passenger and Driver registration;
- Feature: Carrier Self-Diagnostics;
- # Recommended FM4 Configurator 00.02.10;

2016 01 11 00.02.07.02

- Feature: HRLFC calculation from LFE (CAN FMS mode) if no HLRFC available;
- Feature: Configurable Time To Sleep;
- # Recommended FM4 Configurator 00.02.09;

2016 01 07 00.02.06.02

- Bug fix: EcoDrive parameters reloading after Configuration update;
- Feature: EcoDrive - custom speed for Idling;
- Feature: Integration of Alcohol Sensor;
- # Recommended FM4 Configurator 00.02.08;

2015 12 31 00.02.05.07

- Bug fix: Splitted command packets have been handled incorrectly;
- Bug fix: Possible configurator connection lag then wrong APN configured;
- Bug fix: Bad server response handling in final firmware upgrade procedure stage;
- Feature: Possibility to upgrade modem firmware;

- Feature: Improved handling of registration to GSM operator at startup;
 - Feature: Dual LCV CAN;
 - Feature: Custom Ignition timer;
 - Feature: Additional LCV vehicles added;
 - Feature: New Renault (LCV group) added;
 - # Recommended FM4 Configurator 00.02.07;
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2015 12 10 00.02.04.10

- Bug fix: Timestamp date jump;
 - Bug fix: Tachograph's DDD cannot be downloaded;
 - Bug fix: DDD 1 byte packet problem;
 - Bug fix: Incorrect speed filtering in EcoDrive;
 - Bug fix: Traktor->Caterpillar not working;
 - Bug fix: RFID ID;
 - Bug fix: SD Card power initialization;
 - Bug fix: Tacho read together with FMS read on separate CAN buses;
 - Feature: Temporary Blacklist categories;
 - Feature: Set High resolution vehicle distance value via SMS (setvalue);
 - Feature: Tachograph internal time;
 - Feature: Frequency Input;
 - Feature: Internal saving of application data improvements;
 - Feature: Towing detection;
 - Feature: Configurable timer for Jamming Detection;
 - Feature: Expanded EcoDrive;
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2015 11 26 00.02.03.17

- Hot fix: Modem initialization fix for manufacturer;
 - # Recommended FM4 Configurator 00.02.00;
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2015 11 11 00.02.03.12

- Hot fix: FMP4-1-1 hardware supported;
 - # Recommended FM4 Configurator 00.02.00;
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2015 11 06 00.02.03.11

- Bug fix: Transparent NMEA rate;
- Bug fix: Current server index (sending data to two IP addresses);
- Feature: Unnecessary NMEA packets disabling;
- Feature: Added new LCV Ford11 group;
- Feature: Fuel level tank capacity parameter in millilitres for some vehicles;
- Feature: Sending data without GPS fix;
- Feature: SIMPIN and lock to SIM support;
- Feature: Password support for OTA configuration;
- Feature: Added new LCV Toyota4 group;
- Feature: Higher priority for SMS GPRS commands;
- Feature: Mobileye plus LCV;
- Feature: Spreading System EN-15430-1 supported;
- Feature: SMS with the last time when IP or CFG changed;
- Feature: Custom Ignition;
- Feature: Sending data to two IP addresses;
- Feature: Device configuration with SMS;
- Feature: SMS events for Overspeeding, Disconnecting device, Changing ignition state;
- Feature: SMS set impulses for DOUT with SMS;

- Feature: Increasing authorized iButton list;
 - Feature: uBlox EVA-M8M MultiGNSS Enable command;
 - Feature: New fuel level parameter with higher resolution;
 - # Recommended FM4 Configurator 00.02.00;
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2015 09 16 00.02.02.08

- Bug fix: Virtual Odometer improvement;
 - Bug fix: CANbus parameters "Mileage" and "Fuel Used" filter added;
 - Bug fix: Tachograph (sometimes returns PACKET STATUS: 11);
 - Bug fix: "econect" SMS don't switch to new APN;
 - Bug fix: Configuration password is checked incorrectly;
 - Bug fix: Prevent of sending "0" EcoDrive values when "Only on Event" is selected;
 - Bug fix: Check for valid IP address before attempting to connect;
 - Bug fix: Prevent false "0" satellites number on FMEL4-8 and FMP4-10 with EVA-M8M;
 - Bug fix: Weighting system works incorrectly with SD card;
 - Bug fix: CAN "Axle weight" parameter does not match;
 - Bug fix: Response to "reset" command over-air;
 - Bug fix: SMS command "getsd" improvements;
 - Bug fix: SMS commands parsing improvements;
 - Feature: Added trailer and cargo weight parameters (J1939);
 - Feature: EcoDrive buzzer control;
 - Feature: Correction in downloading period (tacho);
 - Feature: LCV VAG8 group was added (Skoda Octavia 2014 Diesel);
 - Feature: LCV VAG3 group has been merged into VAG1;
 - Feature: Brake switch and Fuel level (in liters) parameters now are supported (LCV VAG1);
 - Feature: Accuracy of Engine Coolant Temperature has been improved (LCV VAG1);
 - Feature: Brake Switch parameter now are supported (LCV OPEL1);
 - Feature: EcoDrive from GPS;
 - Feature: EcoDrive parameters as values;
 - Feature: Displaying DOUT status in IO;
 - Feature: SMS answer with link to Google maps;
 - Feature: OBD fuel consumption / fuel used;
 - Feature: FMS messages with same PGN but different source are now filtered out;
 - Feature: Set IO value via SMS "setvalue";
 - # Recommended FM4 Configurator 00.01.71;
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2015 09 01 00.02.01.18

- Bug fix: Device reset with Thermoking functionality;
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2015 08 05 00.02.01.17

- Bug fix: Firmware update with UDP with different server;
 - Bug fix: Few TCO objects shows bad data when third party equipment parallel read tachograph;
 - Bug fix: TCO vehicle ID IO "on change" fix;
 - Feature: Fridge temperature error values added;
 - Feature: Renault3 Fuel Rate and Fuel Used parameters now are also supported;
 - # Recommended FM4 Configurator 00.01.70;
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2015 07 17 00.02.01.08

- Bug fix: Modem temperature reported as 0 when no GSM network or no SIM card;
- Bug fix: Bootloader update;
- Bug fix: Carrier Vector hours units;
- Bug fix: Saving virtual odometer into BATRAM without CRC;

- Bug fix: Event ID witch generates record is incorrect for IO IDs greater than 255;
- Bug fix: Sleep when Engine always ON;
- Bug fix: K-Line tachograph detection;
- Bug fix: Omnikey card reader error then time extension is requested;
- Bug fix: Virtual odometer jumps back and comes to the normal value;
- Bug fix: Fuel used value stuck at zero (LCV);
- Bug fix: Deep Sleep wakeup handling;
- Bug fix: FM crash with peripheral data flood in Diagnostics mode;
- Bug fix: SMS commands additional validation added;
- Bug fix: Temporary blacklist improved;
- Feature: Configurable Movement Sensor sensitivity;
- Feature: LCV TRUCK2 group was added (VOLVO FH (EURO 6));
- Feature: Auto baud rate (LCV);
- Feature: APN lock;
- Feature: Improved Tacho file handling between device and server work-flow;
- Feature: FMP4-I-0 hardware supported;
- Feature: VAG3, VAG7 Fuel Rate and Fuel Used parameters now supported.
- Feature: MultiGNSS satellites count support;
- # Recommended FM4 Configurator 00.01.70;

2015 06 09 00.02.00.54

- Bug fix: TCO K-Line configuration problem;

2015 06 05 00.02.00.53

- Bug fix: GNSS module HW version recognition improvements;

2015 05 29 00.02.00.49

- Bug fix: SD card sending records issue;
- Bug fix: GPRS multiple packets in same buffer;
- Bug fix: EcoDrive "Cruise Control Could Be On" timer;
- Bug fix: EcoDrive distance could be inaccurate;
- Bug fix: Modem turns on even then powered only from USB;
- Bug fix: Profile switch by operator after wake-up and list is empty;
- Bug fix: Weighting system not sending data;
- Bug fix: Geozone works when device is sleeping;
- Bug fix: GPS losing satellites;
- Bug fix: Profile switch while sleeping;
- Bug fix: Record collection stops when internal flash memory is full;
- Bug fix: External voltage check at device startup to prevent flash memory corruption;
- Bug fix: Tachograph file sending when SD card removed while in operation;
- Bug fix: CAN bus could be incorrectly initialized after Sleep and Configuration update;
- Bug fix: Firmware upgrade might fail if Tunnel channel enabled;
- Bug fix: Tachograph file might be corrupted after Firmware upgrade;
- Bug fix: Profile switching may start while previous switching is in progress;
- Bug fix: Data could be corrupted during profile switch;
- Feature: Geozone grouping;
- Feature: Absolute idling events;
- Feature: Absolute idling state;
- Feature: Tunnel channel NMEA data via RS232;
- Feature: Bus FMS-Standard support, additional TellTales, additional FMS parameters;
- Feature: New LCV integration (1 iteration);
- Feature: Tire pressure monitoring system;

- Feature: Temporary Blacklist;
- Feature: Logging to SD card;
- Feature: Record collection speedup when internal flash memory is full;
- Feature: Record send speedup;
- Feature: Debug UART speed changed to 460800;
- Feature: Weighting system record minimal length decreased;

2015 03 30 00.01.05.13

- Hot fix: +5V power supply won't start;
- # Recommended FM4 Configurator 00.01.67;

2015 03 09 00.01.05.12

- Bug fix: Profile switch by hysteresis event;
- Bug fix: "setconnection" SMS does not deliver @ symbol;
- Bug fix: "getapn" SMS + IP2 and Port2;
- Bug fix: Profile switch by operator;
- Bug fix: Weighting system does not send data;
- Bug fix: CAN bus misconfiguration after tachograph read;
- Bug fix: Odometer save flood after movement stop;
- Bug fix: Incorrect driver ID from FMS;
- Feature: I/O slots extension;
- Feature: Ruptela Protocol v1.1;
- Feature: Support mutual authentication when writing data on the remote company card;
- # Recommended FM4 Configurator 00.01.67;

2015 01 15 00.01.04.11

- Hotfix: Bootloader update;
- # Recommended FM4 Configurator 00.01.65r1;

2014 12 19 00.01.04.07

- Feature: Tuned loudspeaker and microphone;
- Feature: Carrier Vector 1550;
- Feature: Dual Tunnel channel;
- Feature: Cornering events for EcoDrive;
- Bug fix: DFS temperature negative value shown as 0;
- Bug fix: The new iButton is not being read;
- # Recommended FM4 Configurator 00.01.65;

2014 11 07 00.01.03.11

- Bug fix: IO that's generated only on event was not saved to record if it was not on the first record of multi record set;
- Bug fix: Bad 1-Wire temperature values after Deep Sleep;
- Feature: LCV Volvo Euro6 added;
- Feature: LCV VAG2 added;
- Feature: Ability to use domain name instead of IP address;
- Feature: Tunnel Channel functionality;
- # Recommended FM4 Configurator 00.01.63;

2014 11 05 00.01.02.16

- Bug fix: Incorrect packet sent (secondary_lvl parameter);

2014 10 20 00.01.02.15

- Bug fix: EcoDrive "Engine On" and "Idling" timers precision improved;
 - Bug fix: SD card write fix;
 - Bug fix: Setting temp marks decreased temp sensors resolution to 9 bits;
 - Bug fix: Virtual odometer diff precision improved. Odom and odom diff averaging disabled;
 - Bug fix: Geozones event generation with lost GPS signal;
 - Bug fix: HDOP value with coords sms;
 - Bug fix: Modem restarts if link is closed on server side;
 - Bug fix: Odometer delta precision increased;
 - Bug fix: GPS fails to start after Sleep;
 - Bug fix: Last record from multiple records sometimes was with no IOs;
 - Feature: EcoDrive "Engine on" status now depends engine on source in addition to voltage;
 - Feature: GSM Jamming detection;
 - Feature: Memorize DOUT states;
 - Feature: Two CAN lines working simultaneously;
 - Feature: "cansinfo" SMS added for information about two CAN interfaces;
 - Feature: CAN distance remembered after restart;
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2014 06 30 00.01.01.00

- First official release;
 - # Recommended FM4 Configurator 00.01.59;
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