

## RACE STUDIO 2 >>>



- Race Studio 2.45.02 - October 25th 2011
- Race Studio 2.44.04 - June 22nd 2011
- Race Studio 2.44.02 - June 13th 2011
- Race Studio 2.44.00 - May 23rd 2011
- Race Studio 2.42.06 - March 31st 2011
- Race Studio 2.42.04 - March 29th 2011
- Race Studio 2.40.00 - November 16th 2010
- Race Studio 2.39.00 - October 15th 2010
- Race Studio 2.38.08 - September 8th 2010
- Race Studio 2.38.06 - September 2nd 2010
- Race Studio 2.38.04 - August 6th 2010
- Race Studio 2.38.02 - August 3rd 2010
- Race Studio 2.37.02 - May 28th 2010
- Race Studio 2.36.02 - May 13th 2010
- Race Studio 2.35.01 - April 14th 2010
- Race Studio 2.34.01 - April 1st 2010
- Race Studio 2.33.01 - March 16th 2010
- Race Studio 2.32.01 - January 27th 2010
- Race Studio 2.31.03 - December 23th 2009
- Race Studio 2.31.02 - November 24th 2009
- Race Studio 2.30.21 - September 14th 2009
- Race Studio 2.30.20 - September 1st 2009
- Race Studio 2.30.19 - June 23th 2009
- Race Studio 2.30.18 - June 10th 2009
- Race Studio 2.30.16 - May 15th 2009
- Race Studio 2.30.13 - March 27th 2009

## 2.45.02

### Race Studio Configuration

1. New feature - the Race Studio 2 software now manages the SoloDL system: configuration, calibration and online
2. New feature - in the Race Studio 2 main window a new button lets you import of data from a SmartyCam microSD
3. Bug fix about the problem with Windows XP (only) installations, for which the RSAnalysis could prompt a "looking for database" window
4. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
MERCEDES	C63_AMG	All	
KTM	X-BOW	All	
HONDA	CIVIC_US	All	For US models (Civic Si ...)
APRILIA	RSV4_APRC	EVO4	Base and factory version
WALBRO	BIMOTA_DB8	All	
BOSCH	MS4_SPORT_OPC_4-50-0	EVO4	
TOYOTA	YARIS	All	Main CAN BUS available through OBD2 connector
PEUGEOT	CAN_BUS	All	Main CAN BUS available through OBD2 connector
LINK	CAN_BUS_FULL_LCC	All	Extension of the Basic CAN Template
VIPEC	CAN_BUS_FULL_LCC	All	Extension of the Basic CAN Template
PERFORMANCE EL.	EDGE	All	Performance Electronic EDGE ECU
NISSAN	370Z	All	And removed "370Z" label in other basic 350Z configuration
NOBLE	ECU_MBE_975D	All	Tested with Noble 400 with ECU MBE 975D
MERCEDES	W212_E250_CGI	All	
GET	HPUH	All	ECU ex Walbro
VEMS	ECU_AIM_DataStream	All	ECU VEMS 3.x that support our Standard Rs232 DataStream
UNICHIP	RS232	All	Unichip Automotive Performance
SYVECS	STACK_DATASTREAM	All	S4,S6,S8 Series
MEGASQUIRT	MS3	All	
MECTRONIK	MK_E6_2.1	All	For Bike Application
MECTRONIK	MK_E6_3.0_1mbit	All	For Auto/Bike Application (1mbit is related to CAN BUS speed)
MECTRONIK	MK_E6_3.0_500k	All	For Auto/Bike Application (500k is related to CAN BUS speed)
EMS	StingerV8860_19200baud	All	Compatible with more recent ECU Firmware Version

## 5. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
VOLKSWAGEN	VWGROUP	All	Added "Gear Box Oil Temperature" ECU Channel
BMW	MINI	All	Added "ABS Fail, DSC Status, ASC_Status, MIL Check Engine - ECU Channels
LINK	CAN_BUS_LCC_BASE	All	Fixed "Oil and Fuel Press" ECU Channels (Received New Protocol Documentation)
VIPEC	CAN_BUS_LCC_BASE	All	Same as LINK ECU
EMS	StingerV8860_9600baud	EVO4	Fixed ECU Driver for EVO4/ECU Bridge
EMS	StingerV4	EVO4	Fixed ECU Driver for EVO4/ECU Bridge
FERRARI	458	All	Added more ECU Channels
BMW	S1000RR	All	Added Hand Throttle and more other channels
AUTRONIC	SM4_V1.09	All	Added OIL and FUEL Press. Channels related to User Channels 3 and 4
BOSCH	MS3_SPORT	MXL	Fixed ECU Driver , all channels was logged slowly
MARELLI	FR2000	EVO4	Fixed OIL Pressure Channel when value became negative
NISSAN	GT-R	All	1 of the 4 wheel Speeds channels was not visible in RS2 Analysis
PECTEL	SQ6_OMEGA_CAN_Stream	All	Added Other TPS Channel and Oil Level Channel

## 6. Changed ECU Models Names/Labels:

Manufacturer	Old model	New model	Description
MECTRONIK	MK_E6	MK_E6_1.0_2.1	Compatible with old ECU Firmware version (See also new MEK6 versions...)
EMS	StingerV8860	StingerV8860_9600baud	Compatible with (very) old ECU Firmware Version

## Download

1. New feature: Management of the SoloDL download
2. New feature: Data download (import) from SmartyCam
3. Bug fix: the Drk Names settings are now applied to files actually being downloaded, instead of needing a software restart
4. Bug fix: the '\_NNN' suffix to drk file name is appended only when needed

## 2.44.04

### Race Studio Configuration

1. Bug fix on transmission of configuration to MXL
2. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
FERRARI	MS5_F458_GT3	EVO4	Added "4 Wheel Speeds" and "Map position" Channels
BMW	M3_GT2	EVO4	Fixed CAN Speed from 500K to 1Mbit and upgrade management of "Air Box Press" Channel
MERCURY	PORT_OUTER_ENGINE	All	Added "Fuel pressure" and "Available Power" Channels
MERCURY	START_BOARD_OUTER_ENGINE	All	Added "Fuel pressure" and "Available Power" Channels

## 2.44.02

### Race Studio Configuration

1. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
BOSCH	MS4.3N (2011 Grand-Am)	All	Grand Am 2011
BOSCH	MS4.3N TURBO (2011 GA)	All	Grand Am 2011 (For Turbo Engine)
APRILIA	RSV4_KIT_RACING	EVO4	
LINK	CAN_BUS_BASE_LCC	All	Using default file LCC for ECU CAN BUS configuration
VIPEC	CAN_BUS_BASE_LCC	All	Using default file LCC for ECU CAN BUS configuration
E-RACE	PRO46	All	
BMW	Z4_GT3	EVO4	
BMW	MS4_Sport_Alpin_B6_GT3	EVO4	
LAMBORGHINI	EURO12_Gallardo_LP560_GT3	EVO4	
VOLKSWAGEN	GOLF_GT24	EVO4	

2. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
BMW	S1000RR	All	Now configuration manage 2 channels for TC (TC ON/OFF and TC Activate/ Deactivate)
HYDRA	NEMESIS 2.6	All	ECU Driver revision (fixed Battery voltage, Speed, Water Temp channels, etc...)
LIFE	F88 CAN	All	Restored previous Fuel Pressure Channels management
NISSAN	GT-R Skyline	All	Added more channels (Oil Press, Water temp, etc...)

### 3. Renamed ECUs:

Manufacturer	Model	Compatib.	Description
BMW	M3_GT2	EVO4	Was BMW --> M3_GT2_VLN
AUDI	R8_LMS	EVO4	Was AUDI --> R8
MERCEDES	MS4_SPORT_SLS_GT3	EVO4	Was BOSCH --> MS4_SPORT_SLS_GT3
FERRARI	MS5_F458_GT3	EVO4	Was BOSCH --> FERRARI_458_VLN

### Download

1. Fixed bug about downloading data from EVO3 and Mychron3 XG Log systems, that caused empty fields in user info window and the error message "Parameter is incorrect!"
2. Fixed bug about "lap cause" downloading from Solo/SoloDL system

### USB Driver setup

1. New application name: USB DRIVER FIX
2. Log file for diagnosis (file log.txt)
3. Drivers will be present on Race Studio cdrom for emergency cases

## 2.44.00

### Race Studio Configuration

1. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
FERRARI	458	All	Compatible with "458 Italia" and "458 Challenge"
KAWASAKI	RACING_KIT	EVO4/ ECU Bridge	Tested with ZX-10R 2011 and Racing Kit
AUDI	R8	All	Used also for VLN
AEM	EMS V1.17 CAN	All	Compatible with "AEM Series2" and "EMS 4" that supports CAN BUS
MARELLI	SRA_PEUGEOUT	All	For "Funyo prototypes"
RENAULT	TRUCKS	All	
BOSCH	MS4_SPORT_SLS_GT3	All	VLN
BOSCH	FERRARI_458_VLN	All	VLN
BMW	M3_GT2_VLN	All	VLN

## 2. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
BOSCH	MS5_SAE_J1939	All	Extented with "Oil, Brake, Fuel, Battery, Exhaust, Injection"
VOLKSWAGEN	VW_SCD_CNG	All	Enclosed last request from VW
BOSCH	MS43, MS44, MS43_CLUBSPORT	All	Fixed ECUdriver Management and fixed MAP1 and MAP2 ECU channels

3. "SmartyCam Functions Setting" button is now visible and disabled for SMC-BRIDGE if there is no configuration

4. Fixed bug that caused truncated text item in "Set Functions To Channels" window

## Download

1. Download from SOLO and SOLO DL
2. Fixed bug about "Test Type" selection in test properties window
3. Fixed minor bugs about "Add/Modify" items to test porperties
4. Fixed bugs about gps-measures in file ".drk" generated during donwloading

## USB Driver setup

1. Automatic USB driver installation during Race Studio installation

## Race Studio Analysis

1. Initial e Full Scale for channels are now independent from zoom setting and can be set using 'Ctrl' key pressed with double click on Y axis
2. Added Items for test type in the database

3. Added Maximum and Minum flags
4. Upgraded and corrected User Profiles management. Changes are now saved only under request (Ctrl+'S' can be used)
5. Used new format for time string (m:s.ms)
6. When new release is installed, dialog to add test samples is not shown if User database already exists
7. Fixed bug in Zoom 2D when more than one test/lap are selected

## 2.42.06

### Race Studio Configuration

1. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
FORD	BOSS_302R_X05_OFF	All	ECU channel "a_Mcyl_Press_ES" can be show in Bar and Psi

### Race Studio Analysis

1. Bug fix RSA: wrong management of child windows maximized property
2. Bug fix RSA: changed font axis in graph view
3. Modified the Time format (now use: min:sec.millisecond)

## 2.42.04

### Race Studio Configuration

1. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
NISSAN	GT-R Skyline	All	
VOLVO	C30	All	
MOTEC	M84	All	
EFI	EURO_4_AUTO_V160_ATL_TURBO	All	
MARELLI	MF4M_BlackBoxTab	All	
KMS	MD35_CLIO_III_CUP	All	
SEAT	IBIZA_SC_Circuit	All	
MOTEC	CAN_CUSTOM_DATA_SET1	All	
PECTEL	SQ6_OMEGA_CAN_Stream	All	
MOTEC	VCS_TransCompound_Full	EVO4/ ECU Bridge	Standard CAN Protocol for VCS Motec

MICROTEC	M205	All	Added Compatibility (Same Microtec M172 conf.)
NISSAN	370Z	All	Added Compatibility (Same Nissan 350Z conf.)
MOTEC	M880	All	Added Compatibility (Same Motec M400/M600/M800 conf.)

## 2. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
VOLKSWAGEN	VW_SCD_CNG	All	Added new P2P management
FORD	BOSS_302R_X05_OFF	All	Added new ECU chann. "a_Mcyl_Press_ES" and removed ECU chann. "p_IPSIBR"
BMW	S1000RR	All	Fixed some ECU channels
YAMAHA	R6	MXL P&P	From Year 06, add new management for filter some undefined/Not true ECU error code
MAZDA	CAN_J68C	All	Added new LAMBDA and ADVANCE Channels and change resolution for LONG & LAT ACC channels
LIFE	F88_CAN	All	Fixed FUEL Pressure 1 & 2 Channels
KMS	MD35	All	Added TPS channel (based on Engine Load value)
MOTEC	M8_DataSet1	MXL	Fixed Crash problem that sometimes occurs when a MXL button was pushed
MOTEC	M4_M48_DATASET3	MXL	Same as M8_DataSet1
MOTEC	M4_M48_DATASET5	MXL	Same as M8_DataSet1

## 3. Renamed the following ECUs:

Manufacturer	Model	Description
IGNITECH	IGNIJET_2007_125K_DUCATI	Old "Label" was IGNIJET_2007_125K
DUCATI	1098/S	Old "Label" was 1098 07
SUBARU	SSM 1999/2007	Old "Label" was SSM
SUBARU	SSM 2008/2011	Old "Label" was SSM 2008/2009

## 4. Suppressed the following ECUs:

Manufacturer	Model	Description
VOLKSWAGEN	VW_TEST	Old version, no more used
VOLKSWAGEN	SC_D_2010	Old version, no more used

1. New Profile Management: opening and closing Analysis is much faster, since the profile file produced is much smaller
2. Possibility to change Views name
3. Zooming in Graph View: the following features are available:
  - a. Vertical Zooming (positioning on the vertical axis, also with the wheel)
  - b. AutoScaling (positioning on the vertical axis and left double mouse clicking)
  - c. Vertical movement of the graph (positioning on the vertical axis and right mouse click)
  - d. Vertical maximisation of the graph (double mouse click)
  - e. 2D Zooming (click the pushbutton and define the wished rectangle)
4. Chinese language management

## 2.40.00

### Race Studio Configuration

-- No upgrade from last release

1. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
CHEVROLET	COBALT_SS	All	
MV_AGUSTA	F4	All	Tested with F4 2010
SUBARU	SSM_FIA_GROUP_N	All	
BMW	Z4M_COUPE_OEM_ECU	All	
HONDA	FIT_FF	All	Formula Ford
MEGASQUIRT	MS2_CAN	All	
LIFE	STACK	All	"Stack" Protocol
DELPHI	MEFI_5B	All	
MAZDA	CAN_J60N_RX8	All	New for Maxda RX8
EFI	EURO2_V009	All	Full management of "2D" protocol

2. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
VIPEC	V44_V88	All	Fixed management of "messages" with variable length
LINK	G4	All	Fixed management of "messages" with variable length

3. Suppressed the following ECUs:

Manufacturer	Model	Description
LIFE	PECTEL_SQ6_EMUL	Now new LIFE "STACK" configuration must be used
LIFE	PECTEL_T2/T6_EMUL	Now new LIFE "STACK" configuration must be used

4. Renamed the following ECUs:

Manufacturer	Model	Description
BMW	ZM4_COUPE_24H_RACE	Old "Label" was BMW Z4MCOUPE

## Race Studio Analysis

1. Measures List:

- Default Channel Order can be set
- Measure setting button has been moved on the top list
- Unit measure Column has been removed. It is now visible near the channel name

2. Measure Plot: it is now possible to enlight the channel clicking on the box with the channel name

3. TimeCompare is active also in Snap-off and in the single test tab

## Download

1. Fixed bug about wrong values of Heading measure

## 2.39.00

## Race Studio Configuration

1. Fixed bug that caused wrong indication of pin of output signal for EVO3 Pro systems

2. Fixed bug that caused wrong gps settings for some configuration readed from datalogger

3. Fixed bug that caused wrong columns labels in configuration grid for EVO3 and David systems

4. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
EFI	EURO2_V6	All	
EFI	EURO12_S480	All	
MAZDA	CAN_J68C	All	Mazda3
BOSCH	SEAT LEON CUP BRC	All	

5. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
NISSAN	350Z	All	4 wheel speed channels added in configuration
MAZDA	MX5	All	Pedal Position 2, Vehicle Speed, Oil Switch channels added
MAZDA	MX5	All	Fixed "Steer.Angle" chann. did not show "negative" value (only EVO4/Bridge)
AUDI	CAN_PQ35_P5	All	Changed management of the "ASR_OFF flag" channel

FORD	BOSS_302R_X05_OFF	All	"p_VCT_IA_INT_1/2" and "p_VCT_IA_EXH_1/2" channels disabled and Steering Speed Angle
PERFORMANCE EL.	ECU_1_EXT	All	Fixed "TPS" chann. manag. did not show "negative" value , when the value of TPS takes values lower than the minimum value set in the ECU

## Race Studio Analysis

1. Added new functionality to manage beacon position for test data; is now possible to get beacon position from another test or from a GPS track file shared between GPS Manager and SmartyManager software database

## 2.38.08

### USB Driver Setup

1. USB driver certification for Windows 7 32/64 bit, Windows XP and Windows Vista 32/64 bit: no more Windows alert that driver installation might damage the PC

### Download

1. Fixed another bug that sometimes caused missed or shifted GPS-data

## 2.38.06

### USB Driver Setup

1. USB driver certification for Windows 7 32/64 bit: no more Windows alert that driver installation might damage the pc

### Race Studio Configuration

1. Fixed bug that caused ECU speed channel as reference speed not be associated to a SmartyCam function
2. Fixed bug of version 2.38.02 or later about database error shown the first time you launch RaceStudio after updating it
3. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
HONDA	CIVIC_TYPE_R_FD2	All	Japan Version
AUDI	CAN_PQ35_P5	All	

4. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
HONDA	CIVIC_TYPE_R_FN2	All	Changed ECU Model Name, was CIVIC_TYPE_R in CIVIC_TYPE_R_FN2 for Europe Version
LAMBORGHINI	GALLARDO	All	Added management for "6" gear

### Race Studio Analysis

1. Fixed bug for crash on opening of suspension analysis settings window

### Race Studio Download

1. Fixed bug that sometimes caused missed or shifted gps-data
2. Fixed bug that sometimes caused wrong huge value lap-time
3. Fixed bug about wrong timeout interruptions
4. Fixed bug about crash when there is a run with no data

## 2.38.04

### Race Studio Configuration

1. Fixed bug about wrong columns labels of configurations grid in German language

## 2.38.02

### Race Studio Configuration

1. Added new feature on Channel Expansion: it is possible to manage 2 speeds on first 2 channels
2. Type of configured lap marker indicated in configuratione grids.  
From grid in Select Configuration panel you can modify lap timer choice too
3. Modified panel for choosing type of system for display with resolution of 1024 \* 600
4. Fixed some minor bugs about Channel Expansion
5. Fixed bug about available acquisition times for EVO4 systems
6. Fixed bug on checking firmware version that can lock some operation with new firmware release
7. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
DUCATI	ECU_NEMESIS_2	All	ECU NEMESIS 2 P&P for Ducati
BOSCH	MS5_SAE_J1939	All	ECU based on SAE J1939 protocol
SC	TYPHOON_TORNADO_V3_CAN	All	(www.specialist-components.co.uk)
GM	Z06R_GT3_EFI	All	EFI ECU based
E-RACE	D4	All	
FORD	BOSS_302R_X05_OFF	All	
CITROEN	C2_MARELLI_250K	All	
VOLKSWAGEN	VW_SCD_CNG	All	

#### 8. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
PORSCHE	EMS SDI 3.1 SIEMENS	All	Added Brake Switch 2 and Brake Pressure Ecu channels
MICROTEC	M172	All	Ecu Driver improvement
EFI	2.1 V7	All	Fixed some ecu channels management
VIPEC	V44_V88	All	Fixed some ecu channels management (only custom channels)
LINK	G4	All	Fixed some ecu channels management (only custom channels)
BMW	Mini	All	Fixed Water Temp Ecu Channel
VOLKSWAGEN	VWGroup	All	Added management for "6" gear
VOLKSWAGEN	SC_D_2010	All	Added management for "6" gear
HALTECH	CAN	All	Added Oil Temp and Exhaust Temp Ecu channels

#### Race Studio Analysis

1. From now on invalid speed channels are not inserted in reference speed list
2. Fixed bug for channel 'GPSHeading' (incorrect values were shown)
3. Fixed bug in changing Measure color

#### Race Studio Download

1. Fixed bug about reference speed in .drk files
2. Managing of MyChron Expansion for MyChron4 system

## 2.37.02

#### Race Studio Analysis

1. Fixed bug in View X-Y with opened more than one test

2. Fixed bug in Lap Replay
3. Modified View Frequency layout
4. Fixed bug in Print Views (Measure, Frequency, XY, Histogram)
5. Fixed bug in Updating of Math Channel Constant
6. Fixed bug in Channels Order

### Race Studio Configuration

1. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
BOSCH	MS4_SP_T_40CSTX20	All	MS4 Sport Turbo based 40CSTX20 doc.
BOSCH	MS4_SP_T_40CSTX30	All	MS4 Sport Turbo based 40CSTX30 doc.
BOSCH	MS44_SP_T_44CSTX20	All	MS4.4 Sport Turbo based 40CSTX20 doc.
PORSCHE	MS4_997_GT3_R	All	
PORSCHE	MS4_997_GT3_RSR	All	
MARELLI	FR2000_J	EVO4/Bridge	Now available also for EVO4 and ECU Bridge products

2. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
GM	C6_LS2	All	Removed management of the 4 tire pressure channels

### Race Studio Download

1. Managing of new MyChron Expansion

## 2.36.02

### Race Studio Analysis

1. Modified the Views Measures, Frequency and X-Y: Tab 'test Compare' analysis added, graphics normalized
2. Tab separation for the views Database and LapManager
3. Channel sorting applicable to all Views

### Race Studio Configuration

1. Improved download:
  - a. Execution for USB runs at higher Priority
  - b. Execution for MyTach must be enable (for the first time) from Menu "File" - Download MyTach Enable -
2. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
MBE	992CAN	All	Ecu
MBE	998CAN	All	Traction Control
MBE	9A4CAN	All	Ecu
MBE	9A8CAN	All	Ecu
MBE	9A8998CAN	All	Ecu + Traction Control
VW	SC_D_2010	All	
BMW	BIKE_S1000RR	All	
MECTRONIC	MEK6	All	
FTP	FB_DESIGN	All	
EFI	EURO4_AUTO_V150	All	
TOYOTA	AYGO	All	Beta Version

### 3. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
MERCURY	STARBOARD_OUTER_ENGINE	All	Corrected BOOST Channel, and now it is possible to select "PSI unit" for H2O, BOOST, BLOCK pressure
MERCURY	PORT_OUTER_ENGINE	All	Same as STARBOARD_OUTER_ENGINE
EFI	EURO4 BIKE B009_B012	All	Added TC Trim Channel and changed unit ms -> us for Terog channels
KMS	RS232	All	Added THOTTLE POSITION channel (based on TPS LOAD SITE channel)

### 4. Suppressed the following ECUs:

Manufacturer	Model	Compatib.	Description
MBE	992	All	Old ECU Driver no more used

### 5. Renamed the following ECUs:

Manufacturer	Old Model Name	New Model name
MASERATI	QuattroPorte_GranTurismo	QuattroPorte_GT

## 2.35.01

### Race Studio Analysis

1. Fixed bug that affected the color of the car in lap replay feature
2. Slightly modified Suspension Analysis. Now, in histograms, also the percentage of the different situation (compression /extension high/low speed) is available

### 3. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
FORD	MUSTANG_2011	All	
IGNITECH	IGNIJET_2007_125K	All	Plug & Play for Ducati 999/1098

### 4. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
MARELLI	F3_08	All	Added GEAR_VOLTAGE, GEAR_SHIFT_UP, GEAR_SHIFT_DOWN Channels
ASTON MARTIN	CAN_BUS	All	Changed the management of the channels get by diagnostic
LINK	G4	All	Added management of the configurable channels "GPPress". Now ECU Driver can always manage correctly the value of these channels when they are configured with ECU software manager, for example how pressure sensor, temperature sensor, AFR sensor etc ... (The "unit" for this channels is always generic, but with the possibility to select the correct resolution , for example 1 or 2 decimal, this depend how GPPress channel will be configured into ECU). Changed management of the Ignition Angle ECU Channel
VIPEC	V44_V88	All	Same as LINK G4

## 2.34.01

### Race Studio Configuration

1. Modified "ECU Bridge" into "SMC Bridge"
2. Added RPM Bridge management on the same button "SMC Bridge"
3. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
EFI	EURO4_BIKE_B009	All	
MERCURY	849849_Axx_New	All	
MBE	992_Lola_Cosworth	All	
YAMAHA	BIKE_R1_04_05_06	EVO4/Bridge	
YAMAHA	BIKE_R1_07_08	EVO4/Bridge	
YAMAHA	BIKE_R1_09_10	EVO4/Bridge	
YAMAHA	BIKE_R6_04_05	EVO4/Bridge	

YAMAHA	BIKE_R6_06_10	EVO4/Bridge	
YAMAHA	BIKE_R1_07_08	EVO4/Bridge	
YAMAHA	SCOOTER_TMAX	EVO4/Bridge	

#### 4. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
MICROTEC	M172	All	ECU Driver revised
KMS	RS232	All	Added ECU Channel ECU Battery Voltage
MERCURY	849849_Axx	All	Added ECU Channel ECU Battery Voltage
APRILIA	RSV4	EVO3	Also available for EVO3 Pista/Pro

## 2.33.01

### Race Studio Configuration

1. Fixed bug that caused GPS\_O5 appearing as "unknown" expansion

2. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
VIPEC	V44/V88	All	
EFI	EURO4_BIKE_B009	All	Beta Version
APRILIA	RSV1000 04/08	All	Beta Version
APRILIA	RSV4	EVO4/ECU BRIDGE	
MME	ECU841	All	Beta Version
ASTON MARTIN	CAN BUS	All	Beta Version
2D	ASTON_MARTIN	All	Beta Version
MARELLI	CLIO_III_CUP	All	Beta Version
BOSCH	MS4_App_Robertson	EVO4/ECU BRIDGE	Application Robertson
MERCURY	STARBOARD_OUTER_ENGINE	All	
MERCURY	PORT_OUTER_ENGINE	All	
WALBRO	ECUC_SKYJET	All	Beta Version
MARELLI	FORMULA_ABARTH	EVO4/ECU BRIFGE	
OPEL	CAN	All	
YAMAHA	TMAX	Mxl Strada/Pista P&P	
YAMAHA	TMAX_P_RUSSO	Mxl Pista P&P	Application Peppo Russo

3. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
BOSCH	997_GT3	All	Boost Pressure ECU Channel Corrected
FORD	MUSTANG_2010	All	ECU Channel M_TRQ_ACT (Nm), renamed in M_TRQ_ACT_Nm

#### 4. Add compatibility:

Manufacturer	Model	Compatib.	Description
AVIORACE	SP35	All	Pressure Sensor (0-35 Bar/0.5-4.5 Volt)

## 2.32.01

### Race Studio Configuration

1. Data downloading: fixed bug that created shift between GPS data and other data
2. Fixed bug: it was impossible to scroll configurations grid on a low resolution display

### Race Studio Download

1. Improved download for GPS data

### Race Studio Analysis

No modification from previous release

### USB Driver Setup

No modification from previous release

## 2.31.03

### Race Studio Configuration

1. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
HONDA	CIVIC TYPE R	All	
ZYTEC	EMS4 F3000	All	Beta Version
FIAT_ABARTH	CAN	All	
MASERATI	QuattroPorte_Granturismo (>2007)	All	Releases ECU Driver and added compatibility with this followings cars: Maserati Quattroporte (>2007), Maserati Granturismo (all models), Alfa Romeo 8C Competition

2. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
HYDRA	NEMESIS_2.5	All	Changed ECU Driver name, it was "NEMESIS"
HYDRA	NEMESIS_2.6	All	Changed ECU Driver name, it was "2.5_2.6"
MARELLI	SRA_TN	All	Changed acquisition frequency of all ECU channels (max 50 HZ)
LINK	G4	All	Fixed some ECU channels, they are visible ON LINE, but not on the Formula Steering Wheel
MERCURY	849849_Axx	All	Added 2 new ECU Channels: ECU TEMP and ON TIME COMPENSATION
KMS	RS232	All	Added compatibility with ECU model MA25/MP25 and added some new channels: TPS LOAD SITE, M.A.P. LOAD SITE, LAUNCH SWITCH ACTIVE, LAMBDA CONTROL ACTIVE, CORRECTION OF FUEL INJECTION GROUP 1, CORRECTION OF IGNITION
LIFE	F88_CAN	All	Added some new ECU Channels: BATTERY VOLTAGE, FUEL_PRESSURE 1/2, ENGINE OIL TEMP, FUEL_TEMP, BAROMETRIC PRESSURE, STEERING ANGLE TPS1, BOARD TEMP MAX and fixed PPS Channels with wrong management
GM	C6_LS2	All	Added some new ECU Channels: OIL TEMP, TIRE PRESSURE FL/FR/RL/RR

### Race Studio Analysis

1. Fixed bug: opening "General software setup" window (from menu entry: "File\Preferences") the preferred measure units were reset to metric system (km/h, °C, bar)
2. Fixed bug: opening more than one test, then closing someone, in "Channels order" window (from menu entry: "Modify\Channels order" ) there were measures of closed tests too

### USB Driver Setup

Fixed bug: italian translation is present in driver installation; it was not present in the former release

### Race Studio Download

No modification from previous release

## 2.31.02

### Race Studio Configuration

1. Corrected bug in "Set Function to Channel" mask for non visible channels
2. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
2D	DI_BIG_DASH	All	New ECU Driver used to connect ECU Bridge/SmartyCam to 2D System (with 2D --> DI BIG DASH) , through CAN Line
RENAULT	CAN	All	New ECU Driver compatible with Megane R26 etc.
GEMS	Lancer+9 (CAN 1Mbit)	All	New ECU Driver at 1Mbit , compatible with current GEMS environment
BOSCH	MS43_GA_with_MoTeC_PDM	All	MoTeC PDM (Power Distribution Module)
FORD	MUSTANG_2010	All	Some corrections and officially released
MARELLI	SRA_SRAE_SRT_Small	All	Equivalent to ECU Driver MARELLI --> SRA_SRAE_SRT , for a customer that have a restriction in "data_element_table" (Max 32 channels selectable , Normal is max 64 channels)

### 3. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
MOTEC	M800-Lancer_EvoX	All	Added 6 new ECU Channels (4 wheel speed , Steering Angle and Speed)
TOYOTA	Auris	All	Changed ECU channel name PEDAL_BREAK in PEDAL_BRAKE
GEMS	LANCER_EVOX	All	Some ECU Channels was available RS2 ON_LINE but not for example on MXL Display
LOTUS	Clusters 08-09	All	Added some ECU Channels from OBD2 Diagnostic (PPS,TPS,MAF,IAT)
LOTUS	Clusters 04-07	All	Increase Performance of the ECU Driver
MARELLI	SRA_SRAE_SRT		Added compatibility with SRAE and SRT (so ECU Driver name became SRA_SRAE_SRT)
BMW	MINI	All	Fixed management of the 4 Wheels Speed and recalibrated this other ECDU Channels: STEERING_ANGLE, ENGINE_MOMENT, PPS, FUEL LEVEL, WATER TEMP

### USB Driver Setup

On Windows Vista 64 bit and Windows 7 64 bit you cannot install Race Studio in program files(x64)

### Race Studio Download

No modification from previous release

### Race Studio Analysis

No modification from previous release

## 2.30.21

### Race Studio Configuration

1. GPS04 expansion is now correctly managed
2. For XGLog devices maximum value of obscuring time is 255 sec
3. Updated translation for japanese and spanish languages
4. Released the following ECUs (some of these ECUs were BETA Version):

Manufacturer	Model	Compatib.	Description
SUBARU	SSM 2008/2009	All	
AURION SUBARU	MTEC	All	

5. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
NIRA	EDC/Cr	All	Changed some Channels Name (and relative short name)
TOYOTA	AURIS	All	Corrected Channel name, PEDAL_BREAK into PEDAL_BRAKE
MOTEC	M800_lancer_EvoX	All	Added more Channels (4 Wheel Speed + Steering Angle and Speed)

### Race Studio Download

No modification from previous release

### Race Studio Analysis

1. Fixed bug that can generate wrong gps data channels

## 2.30.20

### Race Studio Configuration

1. Fixed bug about connecting to logger when downloading data. Starting download operation sometimes RaceStudio did'nt communicate with logger
2. Fixed bug about scrolling MXL "System configuration" window. For low resolution screen, "GPS Lap timer" settings were unreachable
3. Fixed bug about "condition enabling checked alarms" for MXL systems: sometimes this setting was not correctly saved or reloaded
4. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
NIRA	EDC/Cr	All	With some bug fixing
HALTECH	CAN	All	Add Compatibility with ECU HALTECH E11V2, E8, SPORT 1000
DUCATI	MARELLI IAW 5.9M (K LINE)	EVO4/Ecu Bridge	Linea K for Ducati Diagnostic
DUCATI	MARELLI IAW 5.9M (CAN)	All	CAN BUS Line between ECU and Original Dashboard
DUCATI	MARELLI IAW 5.9M (CAN+K LINE)	EVO4/Ecu Bridge	CAN BUS Line + Linea K
LAMBORGHINI	GALLARDO	All	
MASERATI	QUATTROPORTE	All	
FERRARI	430 (ecu bosch)	All	
SUBARU	SSM	EVO4/Ecu Bridge	With K Line of EVO4 / ECU Bridge
MARELLI	SRA_EDL8	All	
BMW	M6	All	

5. Suppressed the following ECUs:

Manufacturer	Model	Compatib.	Description
HALTECH	E11V2	All	Old ECU Driver version with RS232 line at 38400 baud, now substitute by new version HALTECH CAN

6. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
OBD2	OBD2_DETECT	EVO4/Ecu Bridge	Add compatility with BMW mini(2003) and BMW 320d (2004)
OBD2	ISO9141/2	EVO4/Ecu Bridge	Add compatility with BMW mini(2003) and BMW 320d (2004)
OBD2	KWP2000 SLOW INIT	EVO4/Ecu Bridge	
MARELLI	FR2000	All	
AEM	V1.19+	All	
E-RACE	E46_M48	All	Add compatility with E-RACE M48 and bug-fix of Tps Management
SUBARU	SSM	All	Changed frequency of acquisition of some ECU Channels: NEUTRAL and CLUTCH (1HZ), TURBO PRESS (10HZ)
HYDRA_EMS	2.5_2.6	All	Add compatility with HYDRA 2.5 ECU
BOSCH	AUDI	EVO4	With correction of TIP TRONIK ECU Channels

VOLKSWAGEN	VWGROUP	All	With correction of TIP TRONIK ECU Channels
AUTRONIC	SM4_V1.09	All	Changed USER4 ECU Channel into OIL PRESSURE ECU Channel (0.0 to 12.0 BAR)

7. Renamed the following ECUs:

Manufacturer	Old model	New model	Compatibility
Ferrari	430C	430C (Marelli DDU)	All

### Race Studio Download

No modification from previous release

### Race Studio Analysis

1. Fixed bug that can generate wrong gps data channels

## 2.30.19

### Race Studio Configuration

#### 1. Management of 64 bit drivers for Windows Vista and Windows 7

2. Fixed bug about "condition enabling checked alarms" for MXL systems: sometimes this setting was not correctly saved or reloaded

3. The following ECUs are now available (BETA Version):

Manufacturer	Model	Compatib.	Description
SUBARU	SSM	EVO4/ ECU Bridge	With K Line of EVO4 / ECU Bridge

4. Released the following ECUs:

Manufacturer	Model	Compatib.	Description
NIRA	EDC/Cr	All	With correction of some ECU channels management
HALTECH	CAN	All	Add Compatibility with ECU HALTECH E11V2, E8, SPORT 1000 & 2000, through CAN BUS Line

5. Suppressed the following ECUs:

Manufacturer	Model	Compatib.	Description
HALTECH	E11V2	All	Old ECU Driver version with RS232 line at 38400 baud, now substitute by new HALTECH CAN configuration

## 6. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
OBD2	OBD2_DETECT	EVO4/ ECU Bridge	Add compatibility with BMW mini (2003) and BMW 320d (2004)
OBD2	ISO9141/2	EVO4/ ECU Bridge	Add compatibility with BMW mini (2003) and BMW 320d (2004)
OBD2	KWP2000 SLOW INIT	EVO4/ ECU Bridge	
MARELLI	FR2000	All	
AEM	V1.19+	All	

## Race Studio Download

1. Management of 64 bit drivers for Windows Vista and Windows 7

## Race Studio Analysis

No modification from previous release

## 2.30.18

## Race Studio Configuration

1. Management of ECU-Bridge
2. New feature: alarm on a generic channel can now be set as output signal of EVO4 system
3. New feature: Track width for GPS lap-timer can now be set for MXL and EVO3Pro/Pista systems too
4. Updated translation of German and Japanese languages
5. Fixed bug about import/export of SmartyCam functions settings
6. Released the following ECUs (some of this ECUs was BETA Version):

Manufacturer	Model	Compatib.	Description
TOYOTA	LEXUS	All	
MASERATI	4200	All	

7. The following ECUs are now available (BETA Version):

Manufacturer	Model	Compatib.	Description
BOSCH	MS4_SPORT_FIA_GT3	All	
OBD2	OBD2_DETECT	EVO4	This ECU Driver detect OBD2 protocol used
GM	Z06_LS7	All	Corvette Z06 LS7
AURION	MTEC_Sport	All	

8. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
GM	C6_LS2	All	Now GEAR, FUEL USED, FUEL_LEVEL and OIL PRESS channels are showed correctly
EFI	EURO6(new)/EURO12(new)	All	Now FUEL USED and FUEL LEFT channels are showed with "unit" Liters .01
VOLKSWAGEN	VW_GROUP	All	Add 2 new channels OIL PRESSURE Alarm and COOLANT Alarm
MOTEC	M400M600M800_1M_V3 M400M600M800_500K_V3 M800_LANCER_EVO10	All	"Hole during acquisition" problem resolved and Unit of measure of SLIP and AIM SLIP Channel are changed from Kmh to %

### Race Studio Download

No modification from previous release

### Race Studio Analysis

No modification from previous release

## 2.30.16

### Race Studio Configuration

1. Released the following ECUs (some of this ECUs was BETA Version):

Manufacturer	Model	Compatib.	Description
PORSCHE	EMS SDI 3.1 SIEMENS	All	
FORD	FR500C_MS	All	
VOLKSWAGEN	VW_GROUP	All	Add TIP_TRONIK and BOOST TSI channels
FORD	MUSTANG_2010	All	
KMS	MD35	All	New CAN Bus Protocol
GEMS	LANCER_EVOX	All	Add new Engine Temperature Management
MOTEC	M800_LANCER_EVOX	All	MOTEC Plug&Play for Mitsubishi Lancer EVOX
MOTEC	M400M600M800_500K_V3	All	For CAN net at 500k
BOSCH	SEAT_LEON_LR	All	
BOSCH	MS2.9	All	For DTM
LIFE	PECTEL_SQ6_EMUL	All	Emulation of the ECU Pectel SQ6
LIFE	PECTEL_T2_T6_EMUL	All	Emulation of the ECU Pectel T2/T6
WALBRO	HPUJ_J2RACE	All	Corrected and now Released

2. The following ECUs are now availables (BETA Version):

Manufacturer	Model	Compatib.	Description
OBD2	ISO9141/2	EVO4	New EVO4 firmware needed
OBD2	KWP2000_FAST_INIT	EVO4	New EVO4 firmware needed
OBD2	KWP2000_SLOW_INIT	EVO4	New EVO4 firmware needed
IGNITECH	IGNIJET 2007	All	
IGNITECH	IGNIJET 2007_250K	All	
TOYOTA	AURIS	All	
OBD2	CAN	All	

3. Add compatibility with Model 2008/2009:

Manufacturer	Model	Compatib.	Description
FORD	MUSTANG_2005/2009	All	
YAMAHA	R1_07_09	MXL	

4. Upgrade/Bug Fix ECUs:

Manufacturer	Model	Compatib.	Description
EFI_USA	2.1_V7	All	Now AIR BOX PRESSURE and CRANK PRESSURE channels are available also with "inch of mercury" unit
MOTEC	M400M600M800_1M_V3	All	Now it is possible to connect Motec Expansion to CAN Net
FORD	MUSTANG 2005/2009	EVO4	Revised driver ECU
BMW	PT6	All	Add new "Injection Fuel channel" and bug fix of existing channel (Steering Angle , Air Temp , MAP , Acc Long and Lat etc ...)
WALBRO	MINJ400		Now Ecu Driver work properly with all Systems
MBE	967/970		Now Ecu Driver work properly with EVO4 System

5. Deleted the following ECUs:

Manufacturer	Model	Compatib.	Description
BOSCH	VW_GROUP	All	(See new ECU Driver VOLKSWAGEN VW_GROUP)

6. Correct unit of measurement for lambda sensor BOSCH (was A/F , now is LAMBDA)

7. New "SmartyCam Functions Setting" feature to associate channels of MXL, Evo3 Pro/Pista or Evo4 with functions of graphical objects of SmartyCam

- Fixed bug about disabling a channel of Channels Expansion. This can cause errors manging enabled channels

### Race Studio Download

No modification from previous release

### Race Studio Analysis

No modification from previous release

## 2.30.13

### Race Studio Configuration

- Added managing of new **Channels Expansion for EVO4**

- Fixed bug about long ECU-channels names

- The following ECUs are renamed:

Manufacturer	New Model Name	Old Model Name
SYBELE	CHALLENGER (CAN)	CAN
SYBELE	CHALLENGER (RS232)	RS232
DTA	S SERIES PRO (CAN)	CAN

- The following ECUs are now availables (BETA Version):

Manufacturer	Model	Compatibility
WALBRO	HPUJ_J2RACE10	All
SYBELE	COMMANDER	All
VOLKSWAGEN	VW_TEST	All
LOTUS	CLUSTERS 08/09	All
SUZUKI	YOSHIMURA_09	All
GEMS	LANCER_EVOX	All

- Released the following ECUs (some of this ECUs was BETA Version):

Manufacturer	Model	Compatibility
EFI	EURO4_BIKE	All
LOTUS	CLUSTERS 04/07	All
LINK	G4 with Vipec	All

- Bug Fixed of the followings ECUs:

Manufacturer	Model	Bug Fixed
RACETECH	EMX04-05	Add compatibility with Mychron3 BIKE
RACETECH	EM46/EMX01-03	Add compatibility with Mychron3 BIKE
SYBELE	CHALLENGER (CAN)	Now all sensor channels are enable

MITSUBISHI	EVOX	WHEEL SPEED and VEHICLE SPEED channels now work properly
BMW	BMW_PT6	ENGINE RPM channels now work properly (Problem only with EVO4)

### **Race Studio Download**

No modification from previous release

### **Race Studio Analysis**

No modification from previous release