ECU Library

ComAp Electronic Engines Support

SW version 8.9.0

New Features List

1 General information

1.1 Version information

ECU library version 8.9.0 is dedicated for every ComAp controller with standard firmware and support an electronic engine.

1.2 Clarification of Notation

Note: This type of paragraph calls the reader's attention to a notice or related theme.

IMPORTANT: This type of paragraph highlights a procedure, adjustment etc., which can cause a damage or improper function of the equipment if not performed correctly and may not be clear at first sight.

Example: This type of paragraph contains information that is used to illustrate how a specific function works.

2 Changes in version 8.9.0

2.1 New features

- **New ECUs being supported:**
  - Baudouin WISE13G
  - BENDER ISOMETER
  - CSI PV Inverter
  - Danfoss Microgrid Converter
  - Danfoss Motor Inverter
  - Danfoss Line Converter
  - Danfoss Switch Converter
  - HITACHI PQstorI R3
  - MTU MIP4000 J1939 v.4 CAN
  - OLiPower BMS
  - Orion BMS2
  - SINOSOAR ESS Inverter

- **Baudouin WISE10B/E**
  - Support for the Baudouin WISE10E has been added.
  - Module has been renamed from "Baudouin WISE10B" to "Baudouin WISE10B/E"

- **Kubota EDC17**
  - Support of the Kubota ECU KG4 (Denso) has been added
  - "Engine Override Control Mode" has changed value of constat from 1 to 2
  - "Engine Stop" is now configured in the default configuration.
  - "Unused bits 2" has been renamed to "Droop Map Information"
  - **Parameters:** SPN 514 "Nominal Friction - Percent Torque", SPN 2978 "Estimated Engine Parasitic Losses - Percent Torque", SPN 3707 "Diesel Particulate Filter Active Regeneration Inhibited Due to Accelerator Pedal Off Idle", SPN 3709 "Diesel Particulate Filter Active Regeneration Inhibited Due to Vehicle Speed Above Allowed Speed", SPN 3710 "Diesel Particulate Filter Active Regeneration Inhibited Due to Parking Brake Not Set", SPN 3711 "Diesel Particulate Filter Active Regeneration Inhibited Due to Low Exhaust Temperature", SPN 3713 "Diesel Particulate Filter Active Regeneration Inhibited Due to System Timeout", SPN 3716 "Diesel Particulate Filter Active Regeneration Inhibited Due to Engine Not Warmed Up", SPN 2791 "Engine Exhaust Gas Recirculation 1 Valve 1 Control 1", SPN 27 "Engine Exhaust Gas Recirculation 1 Valve Position", SPN 4810 "Aftertreatment 1 Warm Up Diesel Oxidation Catalyst Outlet Temperature", "Operator Inducement Reason" and "Operator Inducement Severity" have been added.

- **Leroy Somer AVR D550 Control**
  - Parameter "Voltage set point AOUT" has an added source "Requested Voltage" and is configured in default configuration.
  - Added support for InteliGen 1000, InteliSys 2000, InteliGen 200.

- **MESA SECM70**
  - Support for InteliSys Gas has been added.

- **Perkins ADEM A6E11**
  - Parameter SPN 3719 "Aftertreatment 1 Diesel Particulate Filter Soot Load Percent" has been added.
- **SENS MicroGenius S24 Address 1 and SENS MicroGenius S2S4 Address 2**
  - All parameters are now configured in the default configuration.

2.2 Bug Repairs

- **Liebherr LIDEC2 and Liebherr LIDEC2 Main**
  - Possibility for user to set addresses has been fixed.
- **MWM SECM70**
  - Parameter "Engine Auxiliary Shutdown Switch" has been fixed.
- **SENS MicroGenius S24 Address 1 and SENS MicroGenius S2S4 Address 2**
  - Parameter "Battery Charger 1 State" has short name changed from "BatteryCharger" to "ChargerState" and long name changed from "BatteryCharger1" to "ChargerState1".
  - Parameter "Battery Charger 1 Power Line State" has short name changed from "BattChargPower" to "PowerLineState" and long name changed from "BatteryCharger1PowerLineState" to "PowerLineState1".
  - Parameter "Battery Charger 1 Output Voltage" has short name changed from "BattChargCurr" to "ChargerOutCurr" and long name changed from "BatteryCharger1OutputCurrent" to "ChargerOutputCurrent1".
  - Parameters "Battery Charger 1 Power Line State", "Thermal Limit Alarm 1", "High DC Voltage Alarm 1", "Low DC Voltage Alarm 1", "Low Cranking Voltage Alarm 1", "Invalid Settings Alarm 1" have been moved from binary inputs to analog inputs.

2.3 Removed Features

- **Volvo Marine EMS 2.3/2.4 & ACM**
  - Support for InteliNeo 6000, InteliNeo 5500 and InteliNeo 530 BESS has been removed.

3 Changes in version 8.8.0

> IMPORTANT: From ECU Library version 8.8.0 the minimum InteliConfig version 2.53.1.

3.1 New features

- New ECUs being supported:
  - Caterpillar ADEM Master
  - Cummins CM2358 Child 0x00
  - Cummins CM2358 Child 0x01
  - Cummins CM2358 Parent
  - INVT XG50-70KTR
  - Leroy Somer D550 control
  - SENS MicroGenius S2S4 Address 1
  - SENS MicroGenius S2S4 Address 2
  - Standard J1939 generator
  - TruConvert AC 3025
  - Vitobloc Gateway
  - Volvo EMS4 BMS
  - Yanmar TNV EGC10-30
- New clusters:
  - Cummins CM2538
- Altronic CD200, Caterpillar Adem A6 Att, Caterpillar Adem Alternator, Caterpillar Gas Sensor 1, Caterpillar Gas Sensor 2, Continental Uninox, Huegli Tech LEF200, Huegli Tech LEF200 Module 1, Huegli Tech LEF200 Module 2, Huegli Tech LEF200 Module 3, Iveco SRC Module, Jenbacher Diane, Jichai EU3A, Kohler KDI Att, Liebherr LIDEC2 Knock Level, Man data logger Slave, Motortech MIC 850, Powerlink, SENS MicroGenius S2S4 Address 1, SENS MicroGenius S2S4 Address 2, Sinotruk BBM Alarm, Sinotruk BBM Tank Fuel, TPEM, Varistep 1, Varistep 2, Waukesha ESM2, Woodward ProAct ISC, Yuchai ECU2 Att
  - Fault codes were deleted in these ECUs from Fault Codes Configuration because these ECUs don't support fault codes.
- E-controls ETECS
  - Parameters SPN 4289 "EGT1" and SPN 4290 "EGT2" have been added.
  - "Engine Coolant Temperature" has been renamed to "Engine Coolant Outlet Temperature"
  - "Engine Intercooler Temperature" has been renamed to "Intake Air Temperature"
  - "Engine Intake Manifold #1 Pressure" has been renamed to "Pre-Throttle Inlet Pressure"
  - "Engine Intake Air Pressure" has been renamed to "Manifold Absolute Pressure"
  - "Engine Throttle Valve 1 Position 1" has been renamed to "Throttle Valve Position"
  - "Engine Percent Load At Current Speed" has been renamed to "Engine Load %"
  - "Ambient Air Temperature" has changed scale factor from 0.0.3 to 0.05
  - "Engine Fuel Valve 1 Intake Absolute Pressure" has been renamed to "MFG Intake Pressure"

- » "Spark Cylinder 9_1" … "Spark Cylinder 12_1" has been renamed to "Coil Voltage Cyl 9" … "Coil Voltage Cyl 12"
- » "Knock Retard_0" has been renamed to "Knock Retard Commanded"
- » "Engine Oil Pressure 2" has changed unit from kPa to Bar
- » "Engine Oil Temperature Bank 2" has changed unit from kPa to °C
- » Parameter "Engine Coolant Inlet Temperature" has been added.

> Cummins CM2150 Gas Sensor 1 and Cummins CM2150 Gas Sensor 2
- » Modules were renamed to Cummins Gas Sensor 1 and Cummins Gas Sensor 2

> Cummins CM2350 cluster
- » Cummins CM2350 Gas Sensor 1 and Cummins CM2350 Gas Sensor 2 were replaced by Cummins Gas Sensor 1 and Cummins Gas Sensor 2.

> Cummins PCC 3.3 and Deep Sea 8610 MKII
- » To description was added information that this ECUs are still in testing.

> Deutz EMR5
- » Parameters "Remaining Standstill Regeneration Time", "Standstill Regeneration State", "Standstill Request Reason" have been added.

> Huawei SmartLogger3000 ESS
- » Description was updated to "This ECU module supports Huawei SmartLogger 3000 for applications with ESS(e.g.LUNA2000). If PV support is also needed the corresponding SmartLogger 3000 ECU module from the Inverters - PV category shall be used on top"

> Huawei SmartLogger 2000, Huawei SmartLogger 3000, Huawei SmartLogger 3000 ESS, Huawei SmartLogger 3000 EMI, Huawei SmartLogger 3000 PM
- » Support of InteliNeo 530 BESS added.

> JCB Delphi DCM Att
- » Support of faultcodes have been added to InteliLite AMF 25, InteliDrive Lite, InteliCompact, InteliNano, InteliNano, InteliDrive, InteliGen 200, InteliGen 500, InteliSys 2000.

> Leroy Somer AVR D500
- » Module was renamed to Leroy Somer AVR D500/510/550
- » Description was updated to "Monitoring interface of generator values via J1939 in Leroy Somer AVR D500, D510, D550"

> MTU ADEC J1939 P-engines
- » Parameters SPN 3550 "Engine Oil Priming Pump Switch", SPN 1161 "Engine Main Bearing 5 Temperature", SPN 1162 "Engine Main Bearing 6 Temperature", SPN 1163 "Engine Main Bearing 7 Temperature", SPN 1164 "Engine Main Bearing 8 Temperature", SPN 520585 "Emergency Stop Input 1", SPN 3543 "Engine Operating State", SPN 1157 "Engine Main Bearing 1 Temperature", SPN 1158 "Engine Main Bearing 2 Temperature", SPN 1159 "Engine Main Bearing 3 Temperature", SPN 1160 "Engine Main Bearing 4 Temperature", SPN 157 "Engine Fuel 1 Injector Metering Rail 1 Pressure", SPN 1110 "Engine Protection System has Shutdown Engine", SPN 2815 "Engine Alarm Acknowledge", SPN 1169 "Engine Turbocharger 2 Speed", SPN 190 "Engine Speed", SPN 520542 "MPL3 / L1L P-Oil Refill Pump", SPN 1165 "Engine Main Bearing 9 Temperature", SPN 1166 "Engine Main Bearing 10 Temperature", SPN 1167 "Engine Main Bearing 11 Temperature", SPN 520286 "Engine Fuel Del Press beh Fil", SPN 520287 "Engine Fuel PreFilt Diff Pres", SPN 987 "Protect Lamp", SPN 624 "Amber Warning Lamp", SPN 623 "Red Stop Lamp", "ML Ready For Start", "Engine Safety

and Prot Overr Stat", "Engine Exhaust Temperature Average", "Engine Trip Fuel" have been added.

> » Support of DM1 fault codes have been added.

> MTU ECU9 SCR

>> » Module was renamed to MTU Axces.

> MTU MIP4000 CAN

>> » Actual value reactive power and Actual value apparent power have resolution changed from 0,1 to 1.

>> » Parameters "Gastype A/B", "Setpoint Offset Speed Adjustment", "Setpoint Generator Voltage" have been added.

> Scania S6 Allspeed cluster

>> » ECU module Scania S6 Allspeed Att was replaced by Scania ACM.

> Scania S8 Allspeed cluster

>> » ECU module Scania S8 Allspeed Att was replaced by Scania ACM.

> Scania S8 Singlespeed att

>> » Module was renamed to Scania ACM

> SDEC ECTEK F36 and SDEC Denso

>> » Parameters "Engine Override Control Mode 0x03", "Engine Requested Speed Control Conditions 0x03", "Engine Control Mode Priority 0x03", "Engine Requested Speed/Speed Limit 0x03", "Engine Requested Torque/Torque Limit 0x03" have been added.

> SDEC Bosch EDC17

>> » Parameters "Engine Override Control Mode 0x03", "Engine Requested Speed Control Conditions 0x03", "Engine Control Mode Priority 0x03", "Engine Requested Speed/Speed Limit 0x03", "Engine Requested Torque/Torque Limit 0x03", "Message Counter 0x03" have been added.

> Volvo Industrial EMS2.4

>> » Parameters SPN 3216 "NOx Intake SCR", SPN 3226 "NOx Outlet SCR", SPN 4360 "SCR In Exhaust Bank 1", SPN 4363 "SCR Outlet Exhaust Bank 1" have been added.

3.2 Bug Repairs

> Caterpillar Adem & EMCP

>> » Parameter "Engine Shutdown Override Switch" has been fixed.

> Cluster Caterpillar Adem & EMCP

>> » Error in cluster configuration has been fixed by adding new ECU Caterpillar ADEM Master.

> Elite SCU

>> » All binary input values have been fixed.

> Kubota EDC17

>> » The possibility of setting source addresses has been fixed.

> MTU MIP4000 CAN

>> » Short name for Mains Voltage L32 has been renamed from "V-MainsL32" to "V-MainsL31"

> Siemens GCS-E

>> » Parameters "Main Water Circuit Pressure", "PTP 1", "MAP 1" have been fixed.

> Steyr EDC17

>> » The inability to unconfigure Speed request has been fixed.

> Varistep 1 and Varistep 2

>> Parameters "Opening in percent" , "Reset", "Step to close", "Step to open", "Mode" have been fixed.

3.3 Removed Features

> Cummins CM2350 Gas Sensor 1

>> Module was removed.

> Cummins CM2350 Gas Sensor 2

>> Module was removed.

> Scania S6 Allspeed Att

>> Module was removed.

> Scania S8 Allspeed Att

>> Module was removed.

> Standard J1939 monitor

>> Parameters "TSC1 Transmission Rate" and TSC1 Control Purpose" have been removed

>> Parameters "Fuel Type" and "Generator Total Rel Power" have been changed to analog inputs

4 Changes in version 8.7.0

4.1 New features

> New ECUs being supported:

- Scania S10 Allspeed
- DynaPower BTM BESS
- Cummins PGI G-Drive
- Iveco MD1 Marine
- Liebherr LIDEC2 Main
- Liebherr LIDEC2 Knock Level
- Kohler KDI Main
- Kohler KDI Att
- Pylontech BMS
- Sinotruk BBM Main
- Sinotruk BBM Alarms
- Sinotruk BBM TankFuel
- JCB Delphi DCM Main
- JCB Delphi DCM Att
- Yuchai YC-LH Main
- Yuchai YC-LH Att
- Huawei Smart Logger 3000 PV
- Huawei Smart Logger 3000 ESS
- Huawei Smart Logger 3000 EMI
- Huawei Smart Logger 3000 PM
- MAN EDC17 Master
- MAN EDC17 Slave
- MAN data logger Master
- MAN data logger Slave
- Iveco EDC Main
- Iveco SCR module
- Delta Site Controller
- Scania S8 Singlespeed Main
- Scania S8 Singlespeed Att
- Cummins CM2150 Main
- Cummins CM2150 Gas Sensor 1
- Cummins CM2150 Gas Sensor 2
- Cummins CM2350 Main
- Cummins CM2350 Gas Sensor 1
- Cummins CM2350 Gas Sensor 2

- » LEF200 Module 1
- » LEF200 Module 2
- » LEF200 Module 3
- » Scania S6 Allspeed Main
- » Scania S6 Allspeed Att
- » Cummins CM2358
- » Caterpillar ADEM A6 Master
- » Caterpillar ADEM A6 Att
- » MAN MFR Master
- » MAN MFR Slave
- » MAN MFR Statistics
- » Caterpillar EMCP3 Module
- » Caterpillar ADEM Alternator
- » Caterpillar ADEM Gas Sensor
- » MTU ECU9 Main
- » MTU ECU9 SCR
- » Econtrols EICS Parent
- » Econtrols EICS Child
- » E-controls ETECS
- > Cummins PGI (CM850)
  - » Module has been renamed back to Cummins CM850.
  - » Parameters "Interface Version Informational", "Interface Version 1", "Interface Version 2", "Engine Type" have been added.
- > Deutz EMR5
  - » Parameter "Aftertreatment 1 Diesel Particulate Filter Time Since Last Active Regeneration" has been added.
- > SolarEdge PV
  - » Parameters "Dynamic Active Power Limit", "Dynamic Reactive Power Ref" and "Dynamic CosPhi Ref" have been added.
- > Trijekt Gas
  - » Support for InteliGen 1000 added.
  - » Parameters "Lambda Corr. Bit 0 (Flag 13)" … "Lambda Corr. Bit 0 (Flag 21)" have been renamed to "Flag 13" … Flag 21".
  - » Parameters "Setpoint Torque", "Setpoint Power and Setpoint Load (throttle position)" have been added.
- > Caterpillar ADEM A6 and Caterpillar J1939
  - » Parameters "Alarm Reset", "Engine Start" and "Frequency Selection" have been added.
- > Waukesha ESM2 and Powerlink
  - » Support for InteliLite 4 added.
- > Baudouine LECM E6 20V
  - » Added DM1 fault codes reading.

- Cluster support has been added
  - Added clusters are Scania S8 Allspeed, Yuchai YC-LH, MAN EDC17, Sinotruk BBM, Liebherr LIDEC2, Kohler KDI, Iveco EDC, JCB Delphi DCM, Econtrols EICS, Scania S8 Singlespeed, Cummins CM 2150, MAN MFR, Cummins CM2350, Caterpillar ADEM A6, Scania S6 Allspeed, Caterpilar Adem&EMCP, MTU ECU9
- Woodward IC920
  - Parameters "Engine Desired Ignition Timing 3", "Actual Ignition Timing", "IC-92x Global Timing", "Odd Energy", "Even Energy" have been added.
- Dongfeng Cummins
  - Parameter SPN1237 "Engine Shutdown Override Switch" has been added.
- SolarEdge SE12.5K - SE120x
  - Parameters "W_Commit Power Control Settings", "W_ReactivePwrConfig", "W_ AdvancedPwrControlEn", "W_ Enable Dynamic Power Control" have been added.
- Deep Sea 8610 MKII
  - Parameters "Engine Operating State", "GCB status", "Oil Pressure (wide range)", "Total Engine Hours", "Average Power Factor", "Genset Bus Frequency" have been fixed.
  - Parameter "Total Fuel Consumption" has been fixed and renamed to "Actual Fuel Consumption"
  - Parameter "Bus percentage of full power" has been fixed and renamed to "Load at speed".
- Motortech MIC 850
  - Module has been renamed to "Motortech MIC"
  - Parameters "Spark Intensity A", "Spark Intensity B", SPN 1433 "Engine Desired Ignition Timing 1", "Primary Energy Cyl. 1" … "Primary Energy Cyl. 24", "Misfire Rate Cyl. 1 … Misfire Rate Cyl. 24" have been added.
  - Parameters "Engine Spark Plug 1" … "Engine Spark Plug 24" have been renamed to "Secondary Voltage Cylinder 1" … "Secondary Voltage Cylinder 24".

4.2 Bug Repairs

- Jenbacher Diane
  - Fix of register numbers and modbus functions.
- Dongfeng Cummins
  - Communication from the controller has been fixed in frames TSC1, EBC1, CM1, TD.
  - Parameters with SPNs 3216, 3217….3235 and 1845, 1623 have been removed.
- Heinzmann GMA / GMF
  - Reading of many messages has been fixed.
- ComAp InteliCharger 120 CAN
  - Parameter "On-board temperature inside the device" has been fixed.
- Cummins CM700
  - Aftertreatment has been fixed.
  - DynaPower BESS inverter
  - Reading of many registers has been fixed.
- Motortech MIC 850
  - Parameters "Ignition Timing 1" … "Ignition Timing 24" have been fixed.

> Deep Sea 8610 MKII

  >> Parameters "Engine Operating State", "GCB status", "Oil Pressure (wide range)", "Total Engine Hours", "Average Power Factor", "Genset Bus Frequency" have been fixed.

  >> Parameter "Total Fuel Consumption" has been fixed and renamed to "Actual Fuel Consumption"

  >> Parameter "Bus percentage of full power" has been fixed and renamed to "Load at speed".

4.3 Removed Features

> Chint PV

  >> InteliNeo 530 BESS support has been removed.

> Dongfeng Cummins

  >> Parameters with SPNs 3216, 3217….3235 and 1845, 1623 have been removed.

> Technoton DFM

  >> Parameters SPN 959 "Seconds", SPN 960 "Minutes", SPN 961 "Hours", 962 "Day", SPN 963 "Month", SPN 964 "Year", SPN 1601 "Time Displacement in Minutes", SPN 1602 "Time Displacement In Hours" have been removed.

> Deep Sea 8610 MKII

  >> Parameter "Average engine speed" has been removed.

> Trijekt Gas

  >> Parameters SPN 518 "Engine Requested Torque/Torque Limit and Start Request", "Stop Request", "Knock control On", "Gas Valve Off", "SetLoad Controller Pos", "Set Lambda Correction", "Set Ignition Correction" have been removed.

5 Changes in version 8.6.1

5.1 New features

> ComAp InteliCharger 120 CAN

>> Default value for protection Upon Module Failure has been changed to None.

6 Changes in version 8.6.0

6.1 New features

- New ECUs being supported:
  - Alfen TheBattery
  - Chint PV Inverters
  - Cummins PCC 3.3
  - DeepSea 8610MKII
  - Elite SCU
  - KSTAR GSE
  - MESA SECM70
  - Oztek BESS V1
  - Oztek BESS V2
- Cummins PGI
  - Module has been renamed to "Cummins PGI (obsolete)".
- Cummins CM850
  - Module has been renamed to "Cummins PGI (CM850)".
  - Parameter SPN 65406 "Frequency Adjustment" has been added.
- DynaPower BESS
  - Parameter from Sunspec 103 "Operating States", parameters from Model 17488 "Operation Mode Select", "Vendor Operating State", "Reconnect Counter", "UpStream AC Aux. Open", "DC Contactor Aux. Open" have been added.
- Scania S8 Allspeed Main
  - Support for InteliDrive DCU, InteliLite 4, InteliGen generations and InteliSys controllers added.
- Scania S8 Allspeed Att
  - Support for InteliDrive DCU, InteliLite 4, InteliGen generations and InteliSys controllers added.
- SolarEdge PV
  - Parameters analog outpus "Dynamic Active Power Limit", "Dynamic Reactive Power Ref" and "Dynamic CosPhi Ref" have been added.
- Standard J1939 Engine
  - Parameters SPN 3673 "Engine Throttle Valve 2 Position", SPN 633 "Engine Fuel Actuator 1 Control Command", SPN 5837 "Fuel Type" and SPN 2807 "Engine Fuel Shutoff 2 Control, SPN 3606 "Engine Controlled Shutdown Request", SPN 4753 "Aftertreatment 1 Gas Oxidation Catalyst Intake Temperature", SPN 4754 "Aftertreatment 1 Gas Oxidation Catalyst Outlet Temperature" and SPN 2452 "Generator Total Real Power, SPN 3349 "TSC1 Transmission Rate" and SPN 3350 "TSC1 Control Purpose" have been added.
- Standard J1939 Monitor
  - Parameters SPN 3673 "Engine Throttle Valve 2 Position", SPN 633 "Engine Fuel Actuator 1 Control Command", SPN 5837 "Fuel Type" and SPN 2807 "Engine Fuel Shutoff 2 Control, SPN 3606 "Engine Controlled Shutdown Request", SPN 4753 "Aftertreatment 1 Gas Oxidation Catalyst Intake Temperature", SPN 4754 "Aftertreatment 1 Gas Oxidation Catalyst Outlet Temperature" and SPN

2452 "Generator Total Real Power, SPN 3349 "TSC1 Transmission Rate" and SPN 3350 "TSC1 Control Purpose" have been added.

> Sunspec PV 700 and Sunspec BESS 700

>> All parameters transformed to 700+ models, new values were added.

6.2 Bug Repairs

> Baudouin WISE 10B

>> Paremeter "Total Hours" has been fixed.

> Cummins PCC

>> Module has been renamed to "Cummins PCC 3.3"

> Cummins PGI (obsolete)

>> Frame PGN 0Xff56 has been fixed.

> John Deere

>> Parameter SPN 4079 "Generator Control" has been added.

> KORE BESS

>> Parameters "Maximum Reserve Percent" and "Minimum Reserve Percent" have been fixed.

> Scania S8 Allspeed, Singlespeed, AS Main, SS Main

>> Parameter "Coordinator Stay Alive Request" has been fixed.

> Solis PV Inverter

>> Parameters 3073 "Working Mode" has been fixed.

>> Parameters Current L1, L2, L3 have been renamed to Current L1 – L3,…

> Standard J1939 Engine

>> Problem with address change due to OII frame was fixed.

> Standard J1939 Monitor

>> Problem with address change due to OII frame was fixed.

> TPEM

>> Parameter "P302.9 diff lube oil via filter row A too high" has been correctly renamed to "P302.9 diff lube oil via filter row A too low".

> Waukesha ESM2

>> Parameter "Engine hours" has been fixed.

>> Fix of registers numbers and modbus functions.

> Waukesha ESM1

>> Parameter "Engine hours" has been fixed.

>> Fix of registers numbers and modbus functions.

7 Changes in version 8.5.0

7.1 New features

› New ECUs being supported:

  » Baudouin LECM E6 V20

  » CATL Battery Management Unit

  » Cummins GCS (for InteliGen1000)

  » Chint BESS Inverter

  » Eicher BESS Inverter

  » HuegliTech AF-1500

  » J1939 User Device

  » Jenbacher Diane (for InteliGen1000)

  » Scania S8 Allspeed Main (for ID-DCU)

  » Scania S8 Allspeed Att (for ID-DCU)

  » Solis PV Inverter

  » Sunspec User Device

  » Sunspec BESS 700

  » Sunspec PV 700

  » Technoton DFM

  » Waukesha ESM (for InteliGen1000)

  » Weichai Wise 10B V2

› ComAp Smart Battery Charger

  » Module has been renamed to "ComAp InteliCharger 120 CAN"

  » Default CAN address has been changed to 30.

  » Parameter "T-board" has been renamed to "T-BoardAlarm".

  » Other minor changes.

› Cummins CM850

  » Parameter SPN 5565 "Coolant Level Engine Protection Shutdown Override Command" has been added.

› Cummins PGI

  » Parameter SPN 5565 "Coolant Level Engine Protection Shutdown Override Command" now connects to source Logical 0.

  » Parameters SPN 5567 "Engine Speed Governor Gain Adjust", SPN 1136 "Engine ECU Temperature", SPN 101 "Engine Crankcase Pressure 1" and "Fuel Rate" have been added.

› Daimler CPC4

  » Support for InteliDrive family controllers added.

› Growatt PV Inverter v1.20

  » Parameter "kWh" has been renamed to "Total Running Hours".

  » Parameters PV3 to PV8 Voltage, Current and Power added.

- Gas Engine Technology GMF
  - Module has been renamed to "Heinzmann GMA / GMF"
- Goodwe Inverters ET, BT
  - Many parameter units have been changed from W to kW, VAr to kVAr, VA to kV.
  - Many parameter names have been changed.
- Iveco EDC17
  - Parameters "Forced Regeneration Stop Request", "Engine Shutdown Request", "Oil Integrators Reset" have been added.
- Iveco MD1
  - Support for HEST lamp has been added.
- MTU Engine Interface Module
  - Parameter "Alarm Reset" has been added.
- SDEC Bosch EDC17
  - Parameters SPN 3679 "Diesel Particulate Filter Lamp Command" and SPN 3702 "Diesel Particulate Filter Active Regeneration Inhibited Status" have been added.
  - Support for DPF lamp and Inhibit Lamp have been added.
- SDEC Denso
  - Parameters SPN 3679 "Diesel Particulate Filter Lamp Command" and SPN 3702 "Diesel Particulate Filter Active Regeneration Inhibited Status" have been added.
  - Support for DPF lamp and Inhibit Lamp have been added.
- SDEC ECTEK F36
  - Parameters SPN 3679 "Diesel Particulate Filter Lamp Command" and SPN 3702 "Diesel Particulate Filter Active Regeneration Inhibited Status" have been added.
  - Support for DPF lamp and Inhibit Lamp have been added.
- Standard J1939 Engine
  - Parameters SPN 7425 "Operator Inducement Torque Derate Level 1", SPN 7426 "Operator Inducement Time to Torque Derate Level 1", SPN 7427 "Operator Inducement Torque Derate Level 2" and SPN 7719 "Operator Inducement Time to Final Inducement Action" have been added.
- Standard J1939 Monitor
  - Parameters SPN 7425 "Operator Inducement Torque Derate Level 1", SPN 7426 "Operator Inducement Time to Torque Derate Level 1", SPN 7427 "Operator Inducement Torque Derate Level 2" and SPN 7719 "Operator Inducement Time to Final Inducement Action" have been added.
- TPEM
  - Parameters "MFR Max Number of Starts" and "Receiver B – T387" has been added.
  - Parameter "P302 Lube oil Filter Outlet Row A" and "P145 Crankcase System Protection (piston seirzure)" has been added.
- Waukesha ESM2
  - Support for InteliGen 500 G2 controllers added.
  - Default connection has been changed to Modbus RTU.

7.2 Bug Repairs

> Cummins GCS

>> Parameter "Running Time" has been fixed.

>> Parameter "Battery Potential (Voltage)" has been fixed.

> DynaPower BESS Inverter

>> Analog output parameter "Active Power Limit" has been fixed.

> Enamr i7

>> Speed Request control has been fixed.

> EPC Power BESS Inverter

>> Analog output parameter "Active Power Limit" has been fixed.

> Iveco MD1

>> Problem with fault code SPN 518654 FMI9 has been fixed.

> Iveco MD1 IPU

>> Problem with fault code SPN 518654 FMI9 has been fixed.

> Liebherr LIDEC 1

>> Stability of speed control has been improved.

> MTU ADEC J1939

>> Parameter "Alarm Reset" is now connected to correct source in InteliGen 1000 controllers.

> MTU ADEC J1939 P-Engines

>> Parameter "Alarm Reset" is now connected to correct source in InteliGen 1000 controllers.

> Perkins ECM

>> Parameter "Alarm Reset" is now connected to correct source in InteliGen 1000 controllers.

> Sinexcel_PWG2/PWS1

>> Parameter "WSGModeOn" is connecte to correct source.

>> Parameter "Active Power setpoints" is connected to correct source.

>> Parameter "Reactive Power setpoints" is connected to correct source.

> SMA Sunny Tripower / Sunny Boy

>> Analog output parameter "Active Power Limit" has been fixed.

> Sunspec BESS

>> Analog output parameter "Active Power Limit" has been fixed.

> Sunspec PV

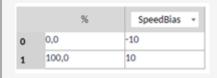>> Analog output parameter "Active Power Limit" has been fixed.

8 Changes in version 8.4.1

8.1 New features

> Support for ID Mobile and BiFuel has been added

9 Changes in version 8.4.0

IMPORTANT: Configuration of Cummins CM2350, Cummins CM570, Cummins CM700, Cummins CM850, Cummins PGI, Guascor LECM E6, MWM SECM and Siemens GCS-E ECUs from ECU Library version 8.3.0 on controllers IinteliLite 4 version 1.5.1 and older, InteliGen 200, InteliGen500 G2, InteliGen 1000 will result in wrong settings of output curve for analog output "Speed Bias". For InteliGen4 200 the bug is present before version 2.1.1. This will be fixed in subsequential releases of controller firmware. However, it is possible to fix it manually by adjusting the output curve like this:

	%	SpeedBias ▾
0	0,0	-10
1	100,0	10

9.1 New features

> **New ECUs being supported:**

>> Iveco EDC17

>> KORE Power BESS inverter

>> Schneider Conext XW (PV inverter)

> **Baudouin LECM E6 (new parameters)**

>> SPN 9653 "Engine Oil Pressure 2", SPN 8016 "Power Electronics Coolant Fan 2 Power Hold", SPN 101 "Engine Crankcase Pressure 1", SPN 6573 "Engine Prechamber Fuel Absolute Pressure", SPN 107 "Engine Air Filter 1 Differential Pressure", SPN 8014 "Power Electronics Coolant Fan 1 Operating Status", SPN 1352 "Engine Cylinder 1 Knock Level", SPN 1353 "Engine Cylinder 2 Knock Level", SPN 1354 "Engine Cylinder 3 Knock Level", SPN 1355 "Engine Cylinder 4 Knock Level", SPN 1356 "Engine Cylinder 5 Knock Level", SPN 1357 "Engine Cylinder 6 Knock Level", SPN 1358 "Engine Cylinder 7 Knock Level", SPN 1359 "Engine Cylinder 8 Knock Level", SPN 1360 "Engine Cylinder 9 Knock Level", SPN 1361 "Engine Cylinder 10 Knock Level", SPN 1362 "Engine Cylinder 11 Knock Level", SPN 1363 "Engine Cylinder 12 Knock Level", SPN 1364 "Engine Cylinder 13 Knock Level", SPN 1365 "Engine Cylinder 14 Knock Level", SPN 1366 "Engine Cylinder 15 Knock Level", SPN 1367 "Engine Cylinder 16 Knock Level", SPN 1368 "Engine Cylinder 17 Knock Level", SPN 1369 "Engine Cylinder 18 Knock Level", SPN 1370 "Engine Cylinder 19 Knock Level", SPN 1371 "Engine Cylinder 20 Knock Level", SPN 4151 "Engine Exhaust Temperature Average", SPN 8001 "Propulsion Motor Oil Pump Service Indicator", SPN 8003 "Power Electronics Coolant Fan 1 Enable Command", SPN 8002 "Propulsion Motor Oil Pump Operating Status", SPN 8004 "Power Electronics Coolant Fan 1 Power Hold", SPN 8005 "Power Electronics Coolant Fan 1 Speed Command", SPN 8007 "Power Electronics Coolant Fan 1 Enable Status" and SPN 8008 "Power Electronics Coolant Fan 1 Controller Status Reason Code"

> **ComAp Smart Battery Charger**

>> In order to read extended set of parameters from a charger configured to a non-default address, the parameter "Device Address Request" has to be configured and the value of the parameters has to be the address of the charger. If not, so the controller will read and display only the basic set of charger's parameters.

- **Cummins**
  - **Doosan EDC17 G40**
    - Parameter SPN 172 name "T-AirIntake" has been changed to "T-AirIntake1".
  - **John Deere JDEC**
    - Parameter SPN 4080 "Generator Frequency Selection" has been added.
  - **Leroy Somer D500 Prop**
    - Support for controller InteliGen 500 G2 has been added.
  - **Standard J1939 engine**
    - Parameters SPN 967 "Engine Idle Decrement Switch", SPN 968 "Engine Idle Increment Switch", SPN 7850 "Engine Intake 2 Air Temperature", SPN 3562 "Engine Intake Manifold #2 Pressure", SPN 5578 "Engine Fuel Delivery Absolute Pressure", SPN 5580 "Engine Filtered Fuel Delivery Absolute Pressure", SPN 1242 "Instantaneous Estimated Brake Power" has been added.
  - **Standard J1939 monitor**
    - Parameters SPN 967 "Engine Idle Decrement Switch", SPN 968 "Engine Idle Increment Switch", SPN 7850 "Engine Intake 2 Air Temperature", SPN 3562 "Engine Intake Manifold #2 Pressure", SPN 5578 "Engine Fuel Delivery Absolute Pressure", SPN 5580 "Engine Filtered Fuel Delivery Absolute Pressure", SPN 1242 "Instantaneous Estimated Brake Power" has been added.
  - **Waukesha ESM2**
    - Parameter "Current Engine Operating Hours" has been switched from seconds to hours.

9.2 Bug Repairs

- **AGCO Power EEM4**
  - Start and stop functions has been fixed in certain controllers.
- **ComAp Smart Battery Charger**
  - Issue with changing addresses has been fixed.
  - Parameter "Runtime" units has been changed from hours to minutes.
- **Cummins CM570**
  - Issue when updating ECU from older version of ECU list has been fixed.
- **Cummins CM800**
  - Issue when updating ECU from older version of ECU list has been fixed.
- **Doosan EDC17 G40**
  - Blinking of aftertreatment lamps has been fixed.
- **JCB Delphi DCM**
  - Issue when updating ECU from older version of ECU list has been fixed.
- **Kubota EDC17**
  - Issues with speed control has been fixed. TSC1 control is also possible.
  - Issue when updating ECU from older version of ECU list has been fixed.
- **MTU SMART Connect**
  - Start and stop functions has been fixed in certain controllers.

> **Scania S8**

  >> Blinking of SCR lamp has been fixed.

  >> Blinking of DEF low level lamp has been fixed.

> **Volvo Industrial EMS 2.4**

  >> Issue when updating ECU from older version of ECU list has been fixed.

> **Volvo Industrial**

  >> Issue when updating ECU from older version of ECU list has been fixed.

> **Yuchai YC-LH**

  >> Parameters "Aftertreatment 1 Diesel Exhaust Fluid Tank1 Level", "Aftertreatment 1 Diesel Exhaust Fluid Tank Temperature 1", "Aftertreatment 1 Diesel Exhaust Fluid Tank Heater", "Aftertreatment Diesel Exhaust Fluid Tank low level Indicator" and "Aftertreatment SCR Operator Inducement Severity" will be now read correctly.

9.3 Removed Features

> **MTU_EIM**

  >> Modbus bit position and FMI masks has been removed from all fault codes.
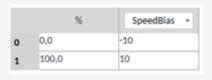
10 Changes in version 8.3.1

10.1 Bug Repairs

> Iveco EDC Volvo Industrial and Volvo Industrial EMS 2.4

>> Issue where configuring ECU and then re-opening the archive might have caused InteliConfig to crash due to duplicated parameters, has been fixed.

11 Changes in version 8.3.0

> **IMPORTANT:**
> **Configuration of Cummins CM2350, Cummins CM570, Cummins CM700, Cummins CM850, Cummins PGI, Guascor LECM E6, MWM SECM and Siemens GCS-E ECUs from this ECU Library version on controllers linteliLite 4 version 1.5.1 and older, InteliGen500 G2, InteliGen 1000 will result in wrong settings of output curve for analog output "Speed Bias". For InteliGen4 200 the bug is present before version 2.1.1. This will be fixed in subsequential releases of controller firmware. However, it is possible to fix it manually by adjusting the output curve like this:**

	%	SpeedBias ▾
0	0,0	-10
1	100,0	10

11.1 New features

> New ECUs being supported:
>> Doosan EDC17 G40
>> DynaPower BESS Inverter
>> Enmar i7
>> EPC Power BESS Inverter
>> Generac Power Zone ECM-PZ-LSI
>> SolarEdge SE12.5K – SE87.7K
>> SMA DataManager
>> Sungrow Data Logger

> ABB PCS100 BESS
>> Parameters "Active Power Imported Total PM", "Active Power Exported Total PM", "Reactive Power Import Total PM" and "Reactive Power Exported Total PM" are now configured automatically.

> Huawei SUN2000
>> Parameters "Maximum Active Power", "Maximum Apparent Power" and "Input Power" are now configured automatically.

> Iveco NEF&Cursor
>> Has been renamed to Iveco EDC.

> Iveco Vector
>> Has been renamed to Iveco ADEM III.

> John Deere JDEC

> Parameters SPN 29 "Accelerator Pedal Position 2", SPN 899 "Engine Torque Mode", SPN 1108 "Engine Protection System Timer Override", SPN 1109 "Engine Protection System Approaching Shutdown", SPN 1110 "Engine Protection System has Shutdown Engine", SPN 2812 "Engine Overspeed Test", SPN 1111 "Engine Protection System Configuration", SPN 2895 Engine Droop Auxiliary Input Select State, SPN 127 "Transmission Oil Pressure", SPN 177 "Transmission Oil Temperature 1" and SPN 191 "Transmission Output Shaft Speed" has been added.

> Perkins ADEM A6 E11

>> Parameters SPN 5082 "Engine Oil Pressure Low Lamp Command", SPN 5100 "Engine Coolant Temperature High Lamp Data", SPN 6711 "Engine Speed High Lamp Data", SPN 7840 "Engine Speed Governor Mode", SPN 1237 "Engine Shutdown Override Switch", SPN 166 "Engine Rated Power", SPN 3542 "Requested Engine Control Mode", SPN 4080 "Generator Frequency Selection", SPN 5568 "Engine Speed Governor Droop", SPN 4201 "Engine Speed 1", SPN 723 "Engine Speed 2", SPN 4203 "Engine Speed Sensor 1 Timing Pattern Status", SPN 4204 "Engine Speed Sensor 2 Timing Pattern Status", SPN 3551 "Engine Oil Priming State", SPN 3509 "Sensor supply voltage 1", SPN 3510 "Sensor supply voltage 2", SPN 236 "Engine Total Idle Fuel Used", SPN 235 "Engine Total Idle Hour", SPN 1188 "Engine Turbocharge Wastegate Actuator 1 Position", SPN 2812 "Engine Overspeed Test", SPN 593 "Engine Idle Shutdown has Shutdown Engine", SPN 2882 "Engine Alternate Rating Select", SPN 2881 "Engine Droop Accelerator 1 Select", SPN 2879 "Engine Droop Accelerator 2 Select", SPN 2886 "Engine Droop Remote Accelerator Select", SPN 2892 "Engine Operator Primary Intermediate Speed Select State" and SPN 3543 "Engine Operating Stare" has been added.

> Scania S8 Allspeed

>> Parameters SPN 3216 "Aftertreatment SCR Intake NOx 1", SPN 7341 "SCR Operator Inducement Emergency Override Total Reset Occurrences", SPN 7342 SCR "SCR Operator Inducement Override Mode", SPN 7343 "SCR Operator Inducement Override Renewal Required", SPN 7344 "SCR Operator Inducement Override Time Remaining (Extended Range)" has been added.

> Scania S8 Singlespeed

>> Parameters SPN 596 "Cruise Control Enable Switch", SPN 3216 "Aftertreatment SCR Intake NOx 1", SPN 7341 "SCR Operator Inducement Emergency Override Total Reset Occurrences", SPN 7342 SCR "SCR Operator Inducement Override Mode", SPN 7343 "SCR Operator Inducement Override Renewal Required", SPN 7344 "SCR Operator Inducement Override Time Remaining (Extended Range)" has been added.

> Sungrow string Inverters

>> Parameters "kWh Total", "Total Running Time and "Total Apparent Power are now configured automatically.

> Volvo Industrial EMS2.4

>> Counter and checksum has been added for frame TSC1.

> Weichai Wise18B

>> Parameters "Exhaust Temperature 1", "Expansion Tank Level Low", "Fuel Leakage Alarm", "Crankcase Pressure", "Coolant Pressure", "Lub. Oil. Pressure Before Filter", "Fuel Negative Pressure", "Air Filter Pressure 1", "Fuel Oil Pressure After Filter", "Lub. Oil Pressure at Auxiliary Duct 1", "Intake Air Temperature", "Exhaust Temperature 3", "Lub. Oil Pressure at Auxiliary Duct 2", "Coolant Temp 2", "Lub. Oil Pressure after filter", "Intake Manifold Temperature 2", "Intake Air Pressure 2" and "Intake Filter Pressure 2" has been added.

>> Many faultcodes + FMI codes has been added.

> Yuchai YC-LH

>> Parameter SPN 3700 "Aftertreatment Diesel Particulate Filter Active Regeneration Status" has been added.

11.2 Bug Repairs

> Baudouin WISE15

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

> Cummins CM850

>> Issue where parameter "Fuel rate" was not read correctly has been fixed.

> Dongfeng Cummins

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

> Doosan G2 EDC17

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

> Doosan MD1

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

>> Parameter "ECU SCR Catalyst Full" has been switched to correct type analog input.

> Iveco MD1 IPU

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

>> Parameter "ECU SCR Catalyst Full" has been switched to correct type analog input.

> Kohler KDI

>> Parameter "Aftertreatment 1 Diesel Exhaust Fluid Tank 1 Level" has been fixed.

> MAN EDC17

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

> MAN MFR

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

> Scania PCU

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

> Scania S6 Allspeed

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

> Scania S6 Singlespeed

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

> Standard J1939 engine

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

> Weichai WISE13A

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

> Yuchai YC-LH

>> Issue where warning was popping up during configuration in GSC controllers has been fixed.

11.3 Removed features

> Cummins CM800

>> Parameter "Shutdown Override" has been removed.

> All Inverter units

>> Support for controllers IM1010 and IG1000 has been removed.

12 Changes in version 8.2.0

> **IMPORTANT: Please start using ECU Library – Standard.esl, other ESLs have been removed, and will not be updated in future versions.**

12.1 New features

- ECU list – Standard.esl has been renamed to ECU Library – Standard.esl
- New ECUs being supported:
  - ComAp Smart Battery Charger
  - Goodwe Inverters SDT, DT, MT
  - Goodwe Inverters ET, BT
  - Growatt PV inverter v1.20
  - Huawei SmartLogger 3000
  - Scania PCU
  - SDEC Bosch
  - SDEC Denso
  - SDEC ECTEK F20/F46
  - SDEC ECTEK F36
  - Victron CCGX Gateway
- ABB PVI10.0
  - Parameter "kWh" is now configured automatically.
- ABB Trio
  - Parameter "kWh" is now configured automatically.
- Caterpillar J1939
  - Parameters SPN 4360 "Aftertreatment 1 SCR Intake Temperature", SPN 4363 "Aftertreatment 1 SCR Outlet Temperature", SPN 6586 "Aftertreatment 1 SCR Intake Pressure", SPN 6875 "Aftertreatment 1 Diesel Exhaust Fluid Doser Pressure", SPN 4368 "Aftertreatment 1 Diesel Exhaust Fluid Quick Thaw Temperature", SPN 4367 "Aftertreatment 1 Diesel Exhaust Fluid Quick Thaw Tank Volume", SPN 5434 "Aftertreatment 1 Diesel Exhaust Fluid Tank Fill Valve Command" and SPN 4375 "Aftertreatment 1 Diesel Exhaust Fluid Pump Drive Percentage" have been added.
  - Support of reading Diagnostic codes from Aftertreatment unit has been added.
- EControls EICS
  - Parameters SPN 3543 "Engine Operating State", SPN 1440 "Engine Fuel Flow Rate 1", SPN 1441 "Engine Fuel Flow Rate 2", SPN 1443 "Engine Fuel Valve 2 Position", SPN 1765 "Engine Fuel Valve 1 Commanded Position", SPN 1766 "Engine Fuel Valve 2 Commanded Position", SPN 3216 "Aftertreatment 1 SCR Intake NOx 1", SPN 3218 "Aftertreatment 1 Intake Gas Sensor 1 Power In Range", SPN 3219 "Aftertreatment 1 Intake Gas Sensor 1 at Temperature", SPN 3220 "Aftertreatment 1 SCR Intake NOx 1 Reading Stable", SPN 3221 "Aftertreatment 1 Intake Wide-Range Percent Oxygen 1 Reading Stable", SPN 3222 "Aftertreatment 1 Intake Gas Sensor 1 Heater Preliminary FMI", SPN 3223 "Aftertreatment 1 Intake Gas Sensor 1 Heater Control", SPN 3224 "Aftertreatment 1 SCR Intake NOx Sensor 1 Preliminary FMI", SPN 3225 "Aftertreatment 1 Intake Oxygen Sensor 1 Preliminary FMI", SPN 3226 "Aftertreatment 1 Outlet NOx 1", SPN 3228 "Aftertreatment 1 Outlet Gas

Sensor 1 Power In Range", SPN 3229 "Aftertreatment 1 Outlet Gas Sensor 1 at Temperature", SPN 3230 "Aftertreatment 1 Outlet NOx 1 Reading Stable", SPN 3231 "Aftertreatment 1 Outlet Wide-Range Percent Oxygen 1 Reading Stable", SPN 3232 "Aftertreatment 1 Outlet Gas Sensor 1 Heater Preliminary FMI", SPN 3233 "Aftertreatment 1 Outlet Gas Sensor 1 Heater Control", SPN 3234 "Aftertreatment 1 Outlet NOx Sensor 1 Preliminary FMI" and SPN 3235 "Aftertreatment 1 Outlet Oxygen Sensor 1 Preliminary FMI" has been added.

- Huawei Smart Logger has been renamed to Huawei Smart Logger 2000
    - Parameters E-Total and E-Daily are now configured automatically.
- Iveco MD1
    - Parameters "AMC Inhibited", "MCM Inhibited" and "ECU SCR Catalyst Full" have been switched to binary inputs.
    - Parameter "ECU Fuel Pre-Filters Clogging" has been renamed to "Clogged Fuel Pre-Filter Status".
    - Parameter "ECU Air Filter Clogging" has been renamed to "Clogged Air Filter Status".
    - Parameter "ECU Fuel Filter Status" has been renamed to "Clogged Fuel Filter Status".
- Iveco MD1 IPU
    - Parameters SPN 3719 "Aftertreatment 1 Diesel Particulate Filter Soot Load Percent", "AMC Inhibited", "MCM Inhibited", "ECU SCR Catalyst Full" and "ECU Water in Fuel" have been switched to binary inputs.
    - Parameter "ECU Fuel Pre-Filters Clogging" has been renamed to "Clogged Fuel Pre-Filter Status".
    - Parameter "ECU Air Filter Clogging" has been renamed to "Clogged Air Filter Status".
- Leroy Somer AVR CD500 has been renamed to "Leroy Somer AVR D500".
- Motortech MIC 850
    - Parameters "Engine Cylinder # Ignition Timing" from 1 to 24 have been added.
- MWM TPEM is now being supported by InteliSys 2000
- Scania S8 Allspeed
    - Parameters SPN 4331 "Aftertreatment 1 Diesel Exhaust Fluid Actual Dosing Quantity", SPN 4765 "Aftertreatment 1 Diesel Oxidation Catalyst Intake Temperature", SPN 4766 "Aftertreatment 1 Diesel Oxidation Catalyst Outlet Temperature", SPN 3251 "Aftertreatment 1 Diesel Particulate Filter Differential Pressure", SPN 3226 "Aftertreatment 1 Diesel Oxidation Catalyst Outlet Temperature", SPN 132 "Engine Intake Air Mass Flow Rate" and SPN 97 "Water In Fuel Indicator 1" have been added.
- Scania S8 Singlespeed
    - Parameters SPN 4331 "Aftertreatment 1 Diesel Exhaust Fluid Actual Dosing Quantity", SPN 4765 "Aftertreatment 1 Diesel Oxidation Catalyst Intake Temperature", SPN 4766 "Aftertreatment 1 Diesel Oxidation Catalyst Outlet Temperature", SPN 3251 "Aftertreatment 1 Diesel Particulate Filter Differential Pressure", SPN 3226 "Aftertreatment 1 Diesel Oxidation Catalyst Outlet Temperature", SPN 132 "Engine Intake Air Mass Flow Rate" and SPN 97 "Water In Fuel Indicator 1" have been added.
- Schneider Conext CL 60E, CL60A
    - Parameter "kWh" is now configured automatically.
- Sinexcel PW2 / PWS1
    - Parameter "kWh" is now configured automatically.

- SMA SolidQ

  - Parameter "kWh" is now configured automatically.

- Standard J1939 engine

  - Parameters SPN 3568 "Generator Not Ready to Automatically Parallel State", SPN 3567 "Generator Control Not In Automatic Start State", SPN 4078 "Generator Alternator Efficiency", SPN 4079 "Generator Governing Speed Command", SPN 5567 "Engine Speed Governor Gain Adjust" and SPN 5568 "Engine Speed Governor Droop" have been added.

- Sungrow string Inverters

  - Parameters Total DC Power, Total Active Power and Total Reactive Power are now configured automatically.

- Sunspec PV

  - Parameter "WH" is now configured automatically.

- Sunspec BESS

  - Parameter "WH" is now configured automatically.

- Tesla Megapack

  - Parameters "Real Exported Energy Acumm", "Real Imported Energy Acumm" are now configured automatically.

- Volvo Industrial EMS 2.4

  - Parameters "SCR Operator Inducement Reason", "Time Left To Vehicle Speed Reduction OBD", "Time Left of EIO Operation", "Number of EPCD Activations", "Accumulated PCD Time", "PCD Inducement Severity" and "PCD Inducement Reason" have been added.

- Waukesha ESM2 is now supported in IinteliSys GasNT controllers.

12.2 Bug Repairs

- Caterpillar J1939

  - Sending of Aftertreatment commands has been fixed.

- Cummins CM570

  - Issue with Shutdown override parameter have been fixed.

- EControls EICS

  - Parameters "Start" and "Stop" has been fixed and are now configured automatically.

  - Problem with parameters that showed only #### has been fixed.

- Deutz EMR5

  - Issue with engine starting has been fixed.

- Doosan MD1

  - Pinout in PC tool info picture has been corrected.

- Iveco IPU

  - Link between parameter "EGR Inducement" and ATT SCR Lamp has been fixed.

- JCB DCM

  - Issue with starting manual regeneration has been fixes. The manual regeneration start signal must be preceded with turning LBI ATT Interlock ON by user.

> THQtronic

>> Issue with parameter "Tprobe" showing invalid value has been fixed.

> Volvo Marine Prop

>> Modbus bit position information for fault codes has been fixed.

> Waukesha ESM2 (In InteliConfig)

>> Issue with wrong reading of parameters via Modbus has been fixed.

> Yanmar EDC17

>> Issue where changing Device address was not possible has been fixed.

12.3 Features removed

> ECU list – Allspeed.esl

> ECU list – Gensets.esl

> ECU list – InteliLite.esl

> ECU list – InteliNano.esl

> ECU list – InteliConfig.esl

13 Changes in version 8.1.1

IMPORTANT: Please start using ECU Library – Standard.esl, other ESLs will be removed in ECU Library version 8.2.0.

IMPORTANT: ECU Library – InteliNano.esl has been removed. All future changes will be released with the NanoEdit install suite.

13.1 Bug Repairs

> ECU Library – Standard

>> Fixed issue where ECUs were shown for IG1000 when they should not have been visible.

14 Changes in version 8.1.0

> **IMPORTANT: Please start using ECU Library – Standard.esl, other ESLs will be removed in ECU Library version 8.2.0.**

> **IMPORTANT: ECU Library – InteliNano.esl has been removed. All future changes will be released with the NanoEdit install suite.**

14.1 New Features

- New ECUs being supported
  - ABB/Firmer PCS-100
  - ABB PVI10.0
  - ABB PVS 100
  - ABB Trio
  - Delta PCS100HV
  - Delta M series
  - Growatt PV Inverter
  - Huawei SUN2000
  - Huawei Smart Logger
  - Leroy Somer AVR D500 control
  - Schneider Conext CL60E, CL60A
  - Sinexcel PW2 / PWS1
  - SMA Sunny Island
  - SMA Sunny Tripower / Sunny Boy
  - SMA Solid Q
  - Sungrow string inverters
  - Sunspec BESS
  - Sunspec PV
  - Tesla Megapack
  - THQ Tronic LSU49
  - Woodward ProAct ISC
- ECU Library Standard.esl
  - Support for new visualisation with groups and subgroups has been added. This only works with InteliConfig version 2.35. and higher.
- Cummins PGI
  - Parameter SPN 5565 "Coolant Level Engine Protection Shutdown Override Command" is now configured by default with logical 1 as a source.
- Iveco MD1
  - Parameters "Forced Thermal Treatment Counter Reset" has been added.
  - Suport for IG500 controllers family has been added.

- Jichai EU3A
  - Parameters "Number of PCD Activations", "Accounted PCD Time", "PCD Inducement Severity" and "PCD Inducement Reason" has been added.
- Powerlink
  - Suport for IG500 controllers family has been added.
  - Suport for IG200 controllers family has been added.
- Leroy Somer CD500
  - Suport for IG500 controllers family has been added.
  - Suport for IG200 controllers family has been added.
- MTU MIP4000 CAN
  - Many new faultcodes has been added regarding "SD T-Exhaust".
  - Parameter "T-Mixture A" has changed to "T-Mixture B"
  - Parameters "Control - Testing Plant Active", "Deactivate frequency regulation in island operation" and "Frequency Regulation In Island Operation Deactivated From External" has been added.
- Scania S6 Allspeed
  - Suport for IG500 controllers family has been added.
- Scania S8 Allspeed
  - Many new faultcode texts has been added.
  - Suport for IG500 controllers family has been added.
- Scania S8 Singlespeed
  - Many new faultcode texts has been added.
- Volvo Industrial EMS 2.4
  - Suport for IG500 controllers family has been added.
- Weichai Wise18B
  - Parameter SPN 513 "Actual Engine - Percent Torque" has been added.
- Weichai Wise18B Duel
  - Parameter SPN 513 "Actual Engine - Percent Torque" has been added.
  - Changed dimensions from hPa to Bar.

14.2 Bug Repairs

- Baudouin LECM E6
  - Issue with mixed up controller and ECU addresses has been fixed.
- Jenbacher Diane
  - Allmost all parameters has been fixed and updated according to newest Jenbacher documentation.
- Kohler KDI
  - Parameter SPN1761 "Aftertreatment 1 Diesel Exhaust Fluid Tank 1 Level" has been fixed from analog input to analog output.
- Waukesha ESM2
  - Issues where parameters displayed incorrect values has been fixed.

> Weichai Wise18B

>> Parameters "Air Filter Pressure (Master)" , "Air Filter Pressure (Slave)", "Fuel Oil Pressure Outlet", "Fuel Oil Pressure Inlet", "Fuel Oil Pressure Before Coarse Filter (Master)", "Fuel Oil Pressure Before Coarse Filter (Slave)", "Fuel Oil Pressure After Coarse Filter (Master)", "Fuel Oil Pressure After Coarse Filter (Slave)", "Rail Pressure (Master)" and "Rail Pressure (Slave)" has been moved from binary inputs to analog inputs.

14.3 Removed Features

> Fronius Symo

>> Module Fronius Symo has been removed. The support for it will continue in new added Sunspec PV module.

> ECU Library - InteliNano

>> ECU Library - InteliNano.esl has been removed. The support for it will continue in new ECU Library - InteliNano released together with NanoEdit install suit.

15 Changes in version 8.0.0

> **IMPORTANT: Please start using ECU Library – Standard.esl, other ESLs will be removed in ECU Library version 8.2.0.**

Note: *We moved ECUs from ECU Library – GEMS-Multiecu.esl to ECU Library – Standard.esl.*
ECU Library – GEMS-multiecu.esl will cease to exist in future versions of ECU Library – GEMS.

15.1 New Features

> New ECUs being supported
>> Altronic CD200
>> Altronic NGI 1000RC
>> Continental Uninox
>> E-Controls EICS
>> Gas Engine Technology GMF
>> Heinzmann Ariande
>> Henzmann Helenos
>> Heinzmann Kronos
>> Heinzmann Pandaros
>> Heinzmann Phlox
>> HuegliTech SG500 & SG100
>> Jichai EU3A
>> HuegliTech LEF200
>> Motortech MIC850
>> Motortech Varistep 1
>> Motortech Varistep 2
>> MWM ADEM 4
>> Powerlink
>> TPEM
>> Triject GAS
>> Weichai Wise18B Duel
>> Woodward IC920

> Caterpillar J1939
>> Parameter SPN 515 "Engine's Desired Operating Speed" has been added.

> MAN EDC17
>> Parameters "Status of Urea Tank Level", "Status of Urea Quality" and "Status of Monitoring System" has been added. These values are connected to aftertreatment lamps by default.
>> Counter and Checksum parameters has been added to TSC1 messages.

> Volvo Industrial EMS 2.4
>> Parameters "Number of PCD Activations", "Accounted PCD Time", "PCD Inducement Severity" and "PCD Inducement Reason" has been added.

> Weichai Wise18B

>> Parameter "Exhaust Temperature 2" has been added.

15.2 Bug Repairs

> Cummins CM870

>> Issue where warning poped up after configuration in ID-DCU has been fixed.

> Cummins PGI 1.1

>> Issue where parameter Fuel Rate might not work correctly has been fixed.

>> For parameter SPN 5526 "Coolant Level Engine Protection Shutdown Override Command" is now possible to configure the source of value.

> Iveco NEF & Cursor

>> Issue with controlling speed on new engines has been fixed.

> Iveco MD1

>> Issue where inhibit lamp did not behave correctly has been fixed.

> Iveco MD1 IPU

>> Issue where inhibit lamp did not behave correctly has been fixed.

> MTU ECU7 Direct

>> High limit for parameter "CANSpdSwitch" has been changed to 32767.

> MTU MIP4000

>> Issue where some parameters requiring a request did not work has been fixed.

> Perkins ECM

>> Issue where speed request was not sent correctly has been fixed.

> Scania S8 Allspeed

>> Issue where diagnostic messages from aftertreatment unit werent read corrrectly has been fixed.

> Scania S8 Allspeed

>> Issue where diagnostic messages from aftertreatment unit werent read corrrectly has been fixed

15.3 Removed Features

> Leroy Somer CD500

>> All output values have been removed

16 Changes in version 7.9.0

16.1 New Features

> New ESL ECU Library – Standard

>> New ESL containing information about all engines in the ECU Library.

IMPORTANT: Please start using this ESL, other ESLs will be removed in ECU Library version 8.2.0

> New ECUs being supported

>> Baudouin LECM E6

>> Baudouin SECM70

>> Fronius Symo

>> Kubota EDC17

>> ModbusUserDevice

>> MWM SECM70

>> Siements GCS-E

>> Waukesha ESM2

> AGCO Power EEM4

>> Parameter DEF Tank Level now visible in ECU Values.

> Caterpillar J1939

>> Parameter DEF Tank Level now visible in ECU Values.

>> Parameters SPN 8148 Aftertreatment System Enable Command, SPN 9175 Aftertreatment SCR Dosing Mode Command, SPN 7851 Aftertreatment System Enable Status and SPN 9176 Aftertreatment SCR Dosing Mode Status have been added.

> Caterpillar ADEM A6

>> Parameters SPN 7746 Engine Start Request, SPN 7747 Engine Start Consent, SPN 8148 Aftertreatment System Enable Command, SPN 9175 Aftertreatment SCR Dosing Mode Command, SPN 7851 Aftertreatment System Enable Status and SPN 9176 Aftertreatment SCR Dosing Mode Status have been added.

> Cummins CM2350 Industrial

>> Parameter SPN 3695 Aftertreatment Regeneration Inhibit Switch has been added.

> Deutz EMR4

>> Parameter SCR Warning Lamp / EAT Inducement lamp has been added.

>> Behavior of DEF Low Level Lamp has been linked to new parameter.

> Deutz EMR5

>> Parameters SCR Warning Lamp / EAT Inducement lamp, Standstill Regeneration Stop, Standstill Regeneration Release, Start EOL Routine, EOL Routine, Inhibit Heat Mode, EAT Override Switch have been added.

>> Behavior of DEF Low Level Lamp has been linked to new parameter.

> Isuzu ECM

>> Isuzu engines 4LE2TA and 4LE2TX are now being supported.

- John Deere JDEC
  - ⟫ Parameter DPF Regeneration Control Request has been added.
- Kubota ECM
  - ⟫ Parameters SPN 29 Accelerator Pedal Position 2, SPN 52 Engine Intercooler Temperature, SPN 106 Engine Intake Air Pressure and SPN 158 Key Switch Battery Potencial have been added.
- MTU Smart Connect
  - ⟫ Parameter SPN 174 Engine Fuel Temperature 1 has been added.
- Perkins ADEM A6E11
  - ⟫ Parameters SPN 7746 Engine Start Request, SPN 7747 Engine Start Consent and SPN 518 Engine Requested Torque/Torque Limit has been added.
- Perkins ECM
  - ⟫ Perkins series 1200 is now being supported.
- Standard J1939 engine
  - ⟫ Parameters SPN 7746 Engine Start Request and SPN 7747 Engine Start Consent have been added.
- Yanmar EDC17
  - ⟫ Parameters SPN 110 Engine Coolant Temperature and SPN 174 Engine Fuel 1 Temperature 1 have been added.

16.2 Bug Repairs

- Caterpillar ADEM A6
  - ⟫ Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- Caterpillar J1939
  - ⟫ Issue where parameters Elevated Engine Allowed Switch and Aftertreatment Regeneration Engine Speed Allowed Switch weren't sent properly has been fixed.
  - ⟫ Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- Caterpillar ADEM & EMCP
  - ⟫ Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
  - ⟫ Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- Cummins CM2150
  - ⟫ Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- Cummins CM500
  - ⟫ Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- Cummins CM850
  - ⟫ Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.

- › Deutz EMR4
  - » Issue where engine did not start was fixed.
  - » Description in PC tools has been fixed.
- › Deutz EMR5
  - » Issue where engine did not start was fixed.
- › Isuzu ECM
  - » Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- › Kubota ECM
  - » Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- › Liebherr LIDEC1
  - » Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- › MTU DDEC10
  - » Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- › Perkins ECM
  - » Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- › Scania S8 Allspeed
  - » Behavior of HEST lamp has been fixed
- › Scania S8 Singlespeed
  - » Behavior of HEST lamp has been fixed
- › Standard J1939 engine
  - » Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- › Standard J1939 monitor
  - » Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.
- › Volvo Industial EMS 2.4
  - » Fixed issue where error messages appeared during configuration in certain controllers.
- › Volvo Industrial
  - » Fixed issue where error messages appeared during configuration in certain controllers.
- › Yanmar EDC17
  - » Fixed issues with parameters Regeneration Interlock Switch, DPF Regeneration Prohibition Swtich and DPF Regeneration Request Switch.
  - » Behavior of DPF lamp has been fixed.
- › Yanmar TNV
  - » Behavior of DPF lamp has been fixed.

- Yuchai YC-LH
  - Issue where parameter SPN 157 Engine Fuel 1 Injector Metering Rail 1 Pressure was not visible for IGS-NT controllers has been fixed.

17 Changes in version 7.8.1

17.1 Bug Repairs

> Issues where missing parameters caused various problems in many ECUs have been fixed.

18 Changes in version 7.8.0

18.1 New Features

- New ECUs being supported
  - Sinotruk BBM
- Iveco MD1
  - Added support for new CS 069 calibration, Iveco MD1 now requires multiple counter and checksum support on the controller side.
  - Aftertreatment lamps updated according to latest Iveco documentation for Iveco F35, F36 engines.
  - Parameter SCR Catalyst Full has been added.
  - Parameter ACM Inhibited (SPN 3703) has been added.
  - Parameter EGR/DPF Inducement has been added.
- Iveco MD1 IPU
  - Aftertreatment lamps updated according to latest Iveco documentation for Iveco F35, F36 engines.
  - Parameter SCR Catalyst Full has been added.
  - Parameter ACM Inhibited (SPN 3703) has been added.
  - Parameter EGR/DPF Inducement has been added.
- Isuzu ECM
  - Parameter Regeneration Inhibit has been added.
  - Parameter Override Control Mode (SPN 897) has been added.
- Leroy Somer CD500
  - Parameter Requested Generator Overall Power Factor Lagging (SPN 3385) has been added.
- MTU MIP4000 J1939
  - Parameters Speed Higher, Speed Lower, Voltage Higher, Voltage Lower are now configured by default.
- Kohler KDI
  - Parameter Aftertreatment 1 Diesel Exhaust Fluid Tank Level (SPN 1761) has been added
- Scania S8 Allspeed
  - New Faultcode text for SPN 3362 has been added
- Weichai Wise 18B
  - Parameter Exhaust Temperature has been added.
- Yanmar TNV
  - Parameter Exhaust System High Temperature Lamp Command has been added.
  - Parameters Time Remaining at Present Inducement, Pending EGR Inducement Severity, Operator Inducement Active for EGR System Fault, Exhaust Temperature Lamp Status, DPF Regeneration Acknowledge Lamp Status, Buzzer, Starter Relay Status, Coolant Temperature Warning Lamp, Amber Warning Lamp Status, Red Engine Stop Lamp Status has been added.
  - Rules for Aftertreatment lamps has been changed aproprietely.

- Yuchai YECU

  - Parameters P-Fuelpmplnt, P-FuelFltDiff, P-Crankcase, P-OilFilter, P-IntakeAir, T-ExhaustFront, T-ExhaustRear has been added.

18.2 Removed Features

- Weichai Wise 13A

  - Parameter Engine Shutdown Override switch SPN 1237 has been removed.

18.3 Bug Repairs

- Adelsystem CB12245AJ

  - Connection problems with battery charger has been fixed.

- Cummins CM2350

  - Problem with Speed Request message has been fixed.

- Cummins CM570

  - Problem with Speed Request message has been fixed.

- Cummins CM850

  - Problems where speed control did not work has been fixed.

- Deutz EMR4

  - Transmitt period of frame 0xFF44 has been changed to 100ms.

- Deutz EMR5

  - Transmitt period of frame 0xFF44 has been changed to 100ms.

- Leroy Somer CD500

  - Parameters Requested Generator Average Line-Line AC RMS Voltage, Requested Generator Total AC Reactive Power, Requested Generator Overall Power Factor, Voltage Regulator Var/Power Factor Operating Mode, Voltage Regulator Underfrequency Compensation Enabled, Voltage Regulator Enabled and Voltage Regulator Soft Start State has been fixed.

- Isuzu ECM

  - Message with parameter for Stop Request has been fixed

19 Changes in version 7.7.0

19.1 New Features

- New ECUs being supported
  - Adelsystems Battery Charger CB12245AJ (Allspeed.esl, InteliConfig.esl)
  - Cummins CM2350 Industrial (Allspeed.esl)
  - MTU MIP4000 J1939 (Gensets.esl, InteliConfig.esl)
  - AVR Marathon DVR2000EC (Allspeed.esl)
- Caterpillar ADEM A6
  - Parameter SPN 7580 has been added
- Deutz EMR4
  - Correct support of lamp SPN 3697 Diesel Particulate Filter Lamp Command has been added (Deutz is using non-standard lamp behavior)
- Deutz EMR5
  - Correct support of lamp SPN 3697 Diesel Particulate Filter Lamp Command has been added
- Doosan
  - Support of lamp SPN 4175 Diesel Particulate Filter Active Regeneration Forced Status has been added
- Leroy Somer CD500
  - Parameter SPN 3378 Voltage Regulator Soft Start State has been added
- Liebherr LIDEC2
  - Parameter SPN 2452 Generator Total Real Power has been added
  - Parameter Power Setpoint Demand has been added
- Scania S8
  - Parameters SPN 4331 Aftertreatment 1 Diesel Exhaust Fluid Actual Dosing Quantity, SPN 4360 Aftertreatment 1 SCR Catalyst Intake Gas Temperature, SPN 4361 Aftertreatment 1 SCR Catalyst Intake Gas Temperature Preliminary FMI, SPN 4362 Aftertreatment 1 SCR Catalyst Outlet Gas Temperature Preliminary FMI SPN 4363 Aftertreatment 1 SCR Catalyst Outlet Gas Temperature, SPN 1761 Aftertreatment 1 Diesel Exhaust Fluid Tank Level, SPN 3031 Aftertreatment 1 Diesel Exhaust Fluid Tank Temperature, SPN 3517 Aftertreatment 1 Diesel Exhaust Fluid Tank Level 2, SPN 3532 Aftertreatment 1 Diesel Exhaust Fluid Tank Level Preliminary FMI has been added
- Volvo Industrial EMS 2.4
  - Parameters ACM System power down ack, SPN 1761 Aftertreatment 1 Diesel Exhaust Fluid Tank Level, SPN 3031 Aftertreatment 1 Diesel Exhaust Fluid Tank Temperature, SPN 5245 Aftertreatment Diesel Exhaust Fluid Tank Low Level Indicator has been added
- Weichai Wise10B
  - Parameter SPN 92 Engine Percent Load At Current Speed, SPN 695 Engine Override Control Mode has been added
- Weichai Wise18B
  - Parameter SPN 92 Engine Percent Load At Current Speed, SPN 695 Engine Override Control Mode has been added

19.2 Removed features

> Waukesha EMS2 support has been removed temporarily.

19.3 Bug Repairs

> MAN EDC17

>> All request frames are sent with destination address 0xFF instead of 0x00. This should fix problems with certain parameters not being displayed.

> Weichai Wise10B

>> Parameters Right Lube Oil Temperature and Right Lube Oil Pressure has been fixed

20 Changes in version 7.6.0

20.1 New Features

- New ECUs being supported
  - Dongfeng Cummins
  - Iveco MD1 IPU (allspeed.esl only)
  - Liebherr LIDEC2
  - MTU MIP4000 J1939
  - Yanmar EDC17
  - PSI E-control
- Allspeed.esl
  - Iveco MD1 has been added
- InteliLite.esf
  - Weichai Wise 12B has been added
  - Weichai Wise 13A has been added
  - Weichai Wise 15A has been added
- InteliNano.esf
  - Weichai Wise 12B has been added
  - Weichai Wise 13A has been added
  - Weichai Wise 15A has been added
- Cummins CM2350
  - Parameter SPN 441 Auxiliary Temperature 1 has been added
  - Parameter SPN 442 Auxiliary Temperature 2 has been added
  - Parameter SPN 1387 Auxiliary Pressure 1 has been added
  - Parameter SPN 1388 Auxiliary Pressure 2 has been added
- Deutz EMR4
  - Parameter Stationary/Neutral switch has been added
- Deutz EMR5
  - Parameter Stationary/Neutral switch has been added
- Doosan MD1
  - Time and date messages has been switched to outputs
- MTU MIP4000
  - 16 Warning parameters and 16 Shutdown parameters has been added
- Scania S8 Allspeed
  - Parameter SCR Operator Inducement Override Enable has been added
  - Parameter SCR Operator Inducement Override Time Remaining has been added
  - Parameter Number of SCR Operator Inducement Override Events Remaining has been added
  - Parameter Total Number of SCR Operator Inducement Override Events has been added
  - Parameter SCR Operator Inducement Override Switch has been added

- Scania S8 Singlespeed
  - Parameter SCR Operator Inducement Override Enable has been added
  - Parameter SCR Operator Inducement Override Time Remaining has been added
  - Parameter Number of SCR Operator Inducement Override Events Remaining has been added
  - Parameter Total Number of SCR Operator Inducement Override Events has been added
  - Parameter SCR Operator Inducement Override Switch has been added
- Standard J1939 engine, Standard J1939 monitor
  - Parametr SPN 191 Transmission Output Shaft Speed has been added
  - Parametr SPN 161 Transmission Input Shaft Speed has been added
  - Parametr SPN 523 Transmission Current Gear has been added
  - Parametr SPN 2900 Transmission Engine Crank Enable has been added
  - Parametr SPN 1851 Transmission Shift Inhibit Indicator has been added
  - Parametr SPN 2539 Transmission Mode 4 Indicator has been added
  - Parametr SPN 2538 Transmission Mode 3 Indicator has been added
  - Parametr SPN 2537 Transmission Mode 2 Indicator has been added
  - Parametr SPN 2536 Transmission Mode 1 Indicator has been added
  - Parametr SPN 3289 Transmission Requested Gear Feedback
  - Parametr SPN 4252 Transmission Mode 7 Indicator has been added
  - Parametr SPN 4253 Transmission Mode 8 Indicator has been added
  - Parametr SPN 127 Transmission Oil Pressure has been added
  - Parametr SPN 177 Transmission Oil Temperature 1 has been added
  - Parametr SPN 167 Charging System Potential (Voltage) has been added
  - Parametr SPN 444 Battery Potential / Power Input 2 has been added

20.2 Removed features

- Support of KWP2000 protocol has been removed, this involves ECUs Volvo and Scania. J1939 protocols DM1 messages will be used instead.

20.3 Bug Repairs

- Doosan G2 EDC17
  - HEST Lamp SPN 3698 has been fixed
- John Deere JDEC
  - Problems with speed control parameters has been fixed
- Kohler KDI
  - Problems with speed control parameters has been fixed
  - CAN Bus address changed from 0x03 to 0x05
- MTU DDEC10
  - Problems with speed control parameters has been fixed
- Waukesha ESM2
  - Parameter engine hours has been fixed

21 Changes in version 7.5.0

21.1 New Features

- Added support for controller family ID4
- New ECUs being supported:
  - Deep Sea AVR DSEA109 (Allspeed.esl)
  - Daimler CPC4
- Caterpillar ADEM & EMCP
  - New parameter EMCP Fuel Level has been added
- Caterpillar J1939
  - Parameter SPN 696 Engine Requested Speed Control Conditions has been added
  - Parameter SPN 897 Override Control Mode Priority has been added
  - Parameter SPN 1122 Engine Alternator Bearing 1 Temperature has been added
  - Parameter SPN 1123 Engine Alternator Bearing 2 Temperature has been added
  - Parameter SPN 1124 Engine Alternator Winding 1 Temperature has been added
  - Parameter SPN 1125 Engine Alternator Winding 2 Temperature has been added
  - Parameter SPN 1126 Engine Alternator Winding 3 Temperature has been added
- Cummins CM2880
  - Speed Request message frame update period has been changed from 20ms to 10ms
- Hatz
  - Hatz has been renamed to Hatz EDC17
- Iveco NEF&Cursor
  - Iveco NEF&Cursor is no longer available in NanoEdit
- John Deere
  - John Deere has been renamed to John Deere JDEC
- Kohler
  - Kohler has been renamed to Kohler KDI
- Kubota
  - Kubota has been renamed to Kubota ECM
- Liebheer
  - Liebheer has been renamed to Liebheer LIDEC1
- Perkins ECM
  - Parameter SPN 3542 has been added
  - Support of Perkins 1200 series has been added
- Scania S6 Allspeed from ver.1794335
  - Scania S6 Allspeed from ver.1794335 has been reanamed to Scania S6 Allspeed
- Scania S6 Singlespeed from ver.1794335
  - Scania S6 Singlespeed from ver.1794335 has been reanamed to Scania S6 Singlespeed

- Scania S8 Allspeed
  - Parameters DPF Regeneration State, DPF Regeneration Countdown Timer and Urea Level Inducement
  - State are now configured automatically for controllers supporting Stage V.
  - Parameter DPF Regeneration Countdown Timer has now dimension "min" as minutes
- Scania S8 Singlespeed
  - Parameters DPF Regeneration State, DPF Regeneration Countdown Timer and Urea Level Inducement
  - State are now configured automatically for controllers supporting Stage V.
  - Parameter DPF Regeneration Countdown Timer has now dimension "min" as minutes
- Volvo Industrial
  - Parameter Sea Water pressure from frame VP72 has been added, this parameter is dedicated for engines in marine application.
- Volvo Industrial EMS 2.4
  - Parameter Sea Water pressure from frame VP72 has been added, this parameter is dedicated for engines in marine application.
- Yanmar TNV
  - Parameter Droop Mode Status is being configured automatically
  - Parameter SPN 695 Engine Override Control Mode has been added

21.2 Removed features

- Cummins CM570
  - Cummins CM570 is no longer available in NanoEdit
- Cummins CM850
  - Cummins CM850 is no longer available in NanoEdit
- Cummins PGI
  - Cummins PGI is no longer available in NanoEdit
- DeutzEMR4
  - Deutz EMR4 is no longer available in NanoEdit

Note: From ECU Library 7.5.0 all support of KWP2000 protocol will be removed, this involves ECUs Volvo and Scania. J1939 protocols DM1 messages will be used instead.

21.3 Bug Repairs

- Cummins PGI
  - Issue where fault code 639 has been sent by Chinese version of ECU has been fixed
- Deutz EMR5
  - Issue where ECU has not responded to controller speed request has been fixed
- Doosan EDC17
  - Issue where ECU didn't react to speed control has been fixed
- Doosan MD1
  - Issue where ECU didn't react to speed control has been fixed

- **JCB DCM**
  - Issue with not working aftertreatment lamp Aftertreatment Lamp Status, parameter Inducement Level and parameter Refresh Status Byte has been fixed
- **Kohler KDI**
  - Issues with engine instability during running has been fixed
- **Yanmar TNV**
  - Parameter Regeneration Inhibit has been fixed

22 Changes in version 7.4.0

22.1 New Features

- New ECUs being supported:
  - Perkins ADEM A6E11
  - Baudouin WISE10B
  - Doosan MD1
  - Volvo Industrial EMS2.4
    - This ECU configuration is solely for engines equipped with EMS2.4 ECU with counter and checksum. No NT controllers support.
- Caterpillar ADEM A6
  - Aftertreatment Interlock parameter is now supported for GSC controllers
- Cummins CM850/CM2150/CM2250
  - Parameter SPN 970 Engine Auxiliary Shutdown Switch has been added
- Hatz
  - Has been renamed to Hatz EDC17
- Iveco MD1
  - Aftertreatment Interlock parameter is now supported for GSC controllers
- JCB DCM
  - Stage V support has been added
  - Added new fault codes text (full list will be included in new version of Electronic Engines Support guide)
- Kohler
  - Parameter SPN 3698 Aftertreatment Regeneration Force Switch has been added
- MTU ADEC J1939
  - Parameter SPN 250 Engine Total Fuel Used has been added
- MTU ADEC J1939 P-engines
  - Parameter SPN 250 Engine Total Fuel Used has been added
- MTU ECU7 Direct
  - Picture of ECU and connectors has been added
- Scania S6 Allspeed from ver. 1794335
  - Parameter SPN 70 Parking Brake Switch has been added
  - Parameter SPN 523 Transmission Current Gear has been added
- Scania S6 Singlespeed from ver. 1794335
  - Parameter SPN 70 Parking Brake Switch has been added
  - Parameter SPN 523 Transmission Current Gear has been added
- Scania S8 Allspeed
  - Aftertreatment Interlock parameter is now supported for GSC controllers
  - Parameter SPN 70 Parking Brake Switch has been added

- » Parameter SPN 523 Transmission Current Gear has been added
- » Parameter Fuel Level has been added
- » Parameter SPN 5629 DPF Active Regeneration Inhibit Status has been added
- » Parameter SPN 2432 Engine Demand – Percent Torque has been added
- Scania S8 Singlespeed
  - » Aftertreatment Interlock parameter is now supported for GSC controllers
  - » Parameter SPN 70 Parking Brake Switch has been added
  - » Parameter SPN 523 Transmission Current Gear has been added
  - » Parameter Fuel Level has been added
  - » Parameter SPN 5629 DPF Active Regeneration Inhibit Status has been added
  - » Parameter SPN 2432 Engine Demand – Percent Torque has been added
- Volvo Allspeed
  - » Has been renamed to Volvo MarineProp
- Volvo Singlespeed
  - » Has been renamed to Volvo Industrial
  - » Counter and Checksum parameter has been removed
- Yanmar TNV
  - » Aftertreatment Interlock parameter support for GSC controllers has been added
  - » Support for Stage V parameters and lamps has been added

22.2 Removed features

- Volvo Singlespeed
  - » Counter and Checksum parameter has been removed

From ECU Library 7.5.0 all support of KWP2000 protocol will be removed, this involves ECUs Volvo and Scania. J1939 protocols DM1 messages will be used instead.

22.3 Bug Repairs

- Cummins CM800
  - » Displaying of parameters Load, Spd-Desired, P-Barometric has been fixed
- CumminsCM2350
  - » Counter and checksum is now being sent
- Cummins GCS
  - » Fault Code 0 is not going to be shown anymore
- Doosan ED17
  - » Counter and checksum is now being sent
- Deutz EMR5
  - » Problems with speed control has been fixed
- GM e-control
  - » Speed request is now being sent in 10ms instead of 20ms period

- Isuzu ECM
  - Problems with speed control has been fixed
  - Aftertreatment screen is now being configured automatically
- JCB DMC
  - Aftertreatment screen is now being configured automatically
- Jenbacher DIA.NE
  - Fault Code 0 is not going to be shown anymore
- Kohler
  - Issues with several aftertreatment parameters has been fixed.
- MTU ECU7 Direct
  - Communication speed has ben fixed to 125 bits/s
- Standard J939 engine
  - Counter and checksum is now being sent
- Steyr EDC17
  - Speed request sending is now with correct source address
- Yuchai ECU2
  - Counter and checksum is now being sent
- Waukesha EMS
  - Fault Code 0 is not going to be shown anymore
- Waukesha EMS2
  - Fault Code 0 is not going to be shown anymore
- Weichai WISE10B
  - Speed request is now being sent in 10ms instead of 100ms period

23 Changes in version 7.3.1

23.1 Bug repairs

> Iveco NEF & Cursor

>> Removed problems with speed control when alarm TSC1 Checksum appeared.

> JCB Delphi DCM

>> Fixed bug when parameters SPN 3695 and SPN 3696 weren't configured or were configured wrong.

> MTU MIP4000 and MTU ADEC J1939

>> Fault code SPN 0 will not be shown in alarm list anymore.

24 Changes in version 7.3.0

24.1 Bug repairs

> Caterpillar J1939

>> Parameter Engine Fuel Valve 1 Intake Absolute Pressure has been fixed

> Caterpillar ADEM & EMCP

>> Parameter Engine Fuel Valve 1 Intake Absolute Pressure has been fixed

> Cummins PGI

>> Issues with faultcode 639 has been fixed

> Guascor LECM E6

>> Parameter Engine Fuel Flow Rate 1 has been fixed

>> Parameter Engine Fuel Valve 1 Intake Absolute Pressure has been fixed

> Iveco MD1

>> Parameter Generator is Safe for Engine Speed Increase has been fixed

> Iveco Vector

>> Issue that ECU could not be configured in InteliConfig has been fixed

> JCB Delphi DCM

>> Speed Regulation has been fixed

> Mahindra

>> Parameter Engine Fuel Valve 1 Intake Absolute Pressure has been fixed

> MAN data logger

>> Oil pressure values are no longer read 100x larger

> MTU ADEC J1939

>> Fixed speed regulation that caused CAN error messages on SAM module.

> MTU ADEC J1939 P-engines

>> Fixed speed regulation that caused CAN error messages on SAM module.

> Perkins ECM

>> Parameter Engine Fuel Valve 1 Intake Absolute Pressure has been fixed

> Standard J1939 engine

>> Parameter Engine Fuel Valve 1 Intake Absolute Pressure has been fixed

> Standard J1939 monitor

>> Parameter Engine Fuel Valve 1 Intake Absolute Pressure has been fixed

24.2 New Features

> New ECU Cummins CM700 has been added

> New ECU Weichai Wise 13A has been added

> New ECU Waukesha ESM2 has been added

> Agco Power EEM4

>> Parameter SPN 5246 Aftertreatment SCR Operator Inducement Severity is now supported in IL3 controllers family

> Caterpillar ADEM A6

>> DM1 warning lamp parameters has been added

>> New Stage V related parameters SPN 7580 Aftertreatment Regeneration Engine Speed Allowed Switch and SPN 7503 - Aftertreatment Engine Load Request has been added

>> Parameter SPN 5246 - Aftertreatment SCR Operator Inducement Severity is now supported in IL3 controllers family

> Cummins CM2150

>> Parameter SPN 5246 - Aftertreatment SCR Operator Inducement Severity is now supported in IL3 controllers family

> Cummins CM2350

>> Parameter SPN 5246 - Aftertreatment SCR Operator Inducement Severity is now supported in IL3 controllers family

> Deutz EMR4

>> Parameter SPN 5246 - Aftertreatment SCR Operator Inducement Severity is now supported in IL3 controllers family

> Deutz EMR5

>> Parameter SPN 5246 - Aftertreatment SCR Operator Inducement Severity is now supported in IL3 controllers family

> Hatz EDC

>> Parameters SPN 3700 Diesel Particulate Filter Active Regeneration Status and SPN 3701 Diesel Particulate Filter Status has been added for IG200 and IG500 controllers.

> Iveco NEF & Cursor

>> Parameters SPN 109 - Engine Coolant Presure1, SPN 111 - Engine Coolant Level1, SPN 112 - Engine Coolant Filter Differential Pressure, SPN 170 - Cab Interior Temperature, SPN 171 - Ambient Air Temperature, SPN 172 - Engine Intake 1 Air Temperature and SPN 176 - Engine Turbocharger Oil Temperature has been added

>> Iveco NEF&Cursor is now fully replacing old Iveco NEF&Cursor Tier3

>> Parameter SPN 5246 - Aftertreatment SCR Operator Inducement Severity is now supported in IL3 controllers family

> JCB Delphi DCM

>> TSC1 parameters Engine Override Control Mode, Engine Requested Speed Control Conditions and Override Control Mode Priority has been added

>> Stage V parameters SPN 514 Nominal Friction - Percent Torque, SPN 515 Engine's Desired Operating Speed, SPN 108 Barometric Pressure, SPN 171 Ambient Air Temperature, SPN 172 Engine Intake 1 Air Temperature, SPN 3644 Engine Derate Request, SPN 3698 Exhaust System High Temperature Lamp Command, SPN 3700 Aftertreatment Diesel Particulate Filter Active Regeneration Status, SPN 3701 Aftertreatment Diesel Particulate Filter Status, SPN 3703 Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch, SPN 4175 Diesel Particulate Filter Active Regeneration Forced Status, SPN 3719 Aftertreatment 1 Diesel Particulate Filter Soot Load Percent, SPN 3720 Aftertreatment 1 Diesel Particulate Filter Ash Load Percent, SPN 3721 Aftertreatment 1

Diesel Particulate Filter Time Since Last Active Regeneration and SPN 1483 Source Address of Controlling Device for Engine Control has been added

- » Parameter for Engine stop request has been added

> MTU DDEC10

- » Parameter SPN 5246 - Aftertreatment SCR Operator Inducement Severity is now supported in IL3 controllers family

> MTU MIP4000

- » Added text for faultcode SPN 229 – AnalogIOFail

> Perkins ECM

- » Parameter SPN 5246 - Aftertreatment SCR Operator Inducement Severity is now supported in IL3 controllers family

25 Changes in version 7.2.1

25.1 Bug repairs

> Scania S8 Allspeed, Scania S8 Singlespeed

>> Issue with speed control has been fixed

26 Changes in version 7.2.0

The ECU Iveco NEF & Cursor Tier3 has been removed from all ECU Librarys. Already running installation are not affected by this change. Use Iveco NEF & Cursor for new installations as well as in case of needs of ECU configuration update.

26.1 Bug repairs

› Reading Engine Total Hours has been fixed in InteliLite controllers.

› Isuzu ECM

  » Definition of the parameter Air Cleaner Clogging Signal has been fixed

› Deutz EMR4

  » Handling of the parameter Start Lock has been improved

26.2 New features

› The new ECU support has been added - Iveco MD1

› The new ECU support has been added - Caterpillar ADEM A6

› The new ECU support has been added - Deutz EMR5

› The new ECU support has been added - Weichai Wise 12B

› The new ECU support has been added - Doosan G2 EDC17

› The new ECU support has been added - Weichai Wise 10B, the support is only in selected controllers. Please verify it's support in controller's documentation (NFL) or ask Technical Support

› The new ECU support has been added - Leroy Somer AVR CD500, the support is only in selected controllers. Please verify it's support in controller's documentation (NFL) or ask Technical Support

› Fault codes SPN 0 and SPN 524287 are hidden by default

› Parametres DPF Lamp, HEST Lamp, DPF Status, DEF Low Level, SCR Severity, SCR Lamp have been removed from InteliLite, InteliGen 200, InteliGen500 controller's screens.

› Standard J1939 engine

  » Support of parameters Message Counter and Message Checksum have been added. See particular controller's manual about support these parameters.

› MAN MFR

  » Speed control & torque control has been updated according to latest specification.

  » Parameters Selection LLR, Selection EDR have been added

› Waukesha ESM

  » Parameter Current engine operating hours has been added

› Scania S8 Allspeed

  » Parameters Emission-OBD inducement state, Engine Override Control Mode, Engine Requested Speed Control Conditions, Override Control Mode Priority, Engine Requested Torque/Torque Limit have been added

› Scania S8 Singlespeed

  » Parameters Emission-OBD inducement state, Engine Override Control Mode, Engine Requested Speed Control Conditions, Override Control Mode Priority, Engine Requested Torque/Torque Limit have been added

- Scania S6 Allspeed, Scania S6 Singlespeed
  - Parameter Engine Requested Torque/Torque Limit have been added
- Isuzu ECM
  - Aftertreatment support has been updated according to the latest manufacturer implementation
- Volvo Allspeed
  - Parameters Transmission Actual Gear Ratio, Transmission Selected Gear, ransmission Current Gear have been added
  - List of translated fault codes has been extended
- Volvo Singlespeed
  - Support of Protection Override parameter has been added for InteliGen500, InteliGen 200, InteliLite, InteliDrive Lite, InteliCompact SPtM and InteliLite-NT controller's family
  - Parameter Engine Requested Torque/Torque Limit has been added
  - List of translated fault codes has been extended
- Cummins CM850
  - Parameters Auxiliary Temperature 1, Accelerator Pedal Position 1, Engine Fuel 1 Injector Metering Rail 1 Pressure, Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible), Transmission Oil Temperature 1 have been added
- Steyr EDC17
  - The source address of the speed control has been changed to 0x0B
  - The ECU has been added to all ECU Librarys
- Hatz EDC
  - The ECU has been added to all ECU Librarys
  - Aftertreatment support has been updated according to the last manufacturer implementation
- Deutz EMR4
  - Handling of the parameter Start Lock has been improved
- Cummins CM500
  - The ECU has been added to ECU Librarys - InteliLite 2015.esl
  - Parameters Engine Extended Crankcase Blow-by Pressure, Engine Fuel 1 Injector Timing Rail 1 Pressure, Engine Fuel 1 Injector Metering Rail 1 Pressure, Engine Fuel 1 Injector Timing Rail 1 Pressure (backward FW's compatible), Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible) have been added
- Guascor LECM E6
  - Parameters Generator Total Real Power, Desired Power from Generator have been added, follow the controller's documentation for particular controller's support
- Cummins PGI
  - Parameters Engine Fuel Delivery Pressure, Battery Potential / Power Input 1, Engine Coolant Pressure 1, Fuel Temperature, Coolant Level Engine Protection Shutdown Override Command, Requested Engine Control Mode, Generator Alternator Efficiency, Generator Governing Speed Command, Generator Frequency Selection, Engine Speed Governor Droop, Generator Total Reactive Power, Generator Overall Power Factor have been added
  - The default settings of the parameter Governor Gain Adjustment has been changed from 5 to 2

- Cummins CM570
  - The default settings of the parameter Governor Gain Adjustment has been changed from 5 to 2
- Cummins CM850
  - The default settings of the parameter Governor Gain Adjustment has been changed from 5 to 2
- The Weichai EDC has been renamed to Weichai Wise 15A
- Cummins CM2350
  - Parameters Engine Air Filter 1 Differential Pressure, Remote Accelerator Pedal Position, Transmission Oil Pressure, Transmission Oil Temperature, Trip Average Fuel Rate, Engine Injector Metering Rail 1 Pressure, Engine Trip Fuel, Fuel Level 1, Fuel Level 2, Engine Coolant Pressure, Barometric Pressure, Ambient Air Temperature have been added

27 Changes in version 7.1.0

The ECU Scania S6 Allspeed has been removed from all ECU Librarys. Already running installation are not affected by this change. Use Scania S6 Allspeed from ver.1794335 for new installations as well as in case of needs of ECU configuration update.

27.1 Bug repairs

> MAN EDC 17

>> Request for parameter Engine Total Hours of Operation has been fixed. There was a bug in the destination address.

> Scania S6 Allspeed from ver.1794335 and Scania S8 Allspeed

>> Parameters Nominal Speed Switch 1 and Nominal Speed Switch 2 have been fixed. The parameters were not sending in some controllers family.

> MTU ECU 9

>> Default configuration of the parameter Generator Frequency Selection has been fixed.

> Volvo Singlespeed

>> The parameter VP70 Idle Speed Select has been fixed. It was inverted

> Cummins PGI

>> A dimension of a parameter Gen Govern Bias has been added.

27.2 New features

> The new ECU support has been added - Steyr EDC17

> Aftertreatment parameter Aftertreatment SCR Operator Inducement Severity is a part of the default ECU configuration

> Parameters Aftertreatment 1 Diesel Particulate Filter Soot Load Percent, Aftertreatment 1 Diesel Particulate Filter Ash Load Percent are not visible in controller's screen under ECU inputs in some controllers family anymore. The controllers value are used instead. For more information follow the controller's documentation.

> The parameter Engine Total Hours of Operation has been updated based on controller's firmware update. For more information follow the controller's documentation.

> Scania S6 Allspeed

>> The ECU has been removed from the ECU Library as the ECU is obsolete. The Scania S6 Allspeed from ver.1794335 should be configured instead

> Volvo Allspeed

>> Texts of fault codes has been updated and extended

> Volvo Singlespeed

>> Texts of fault codes has been updated and extended

>> The support of the EMS 2.4 has been added. For more information about the controller's firmware support follow the controller's documentation

>> Support of the aftertreatment has been added

>> New parameter has been added - Disable DEF dosing

>> Support of the TSC1 has been removed as VP70 is used for speed control instead

- Kubota
  - New parameters have been added - Parking Brake Switch, Transmission Neutral Switch
- Cummins CM570
  - New parameters have been added - Speed Droop Adjustment, Governor Gain Adjustment
- Cummins PGI
  - Parameter Coolant Level Engine Protection Shutdown Override Command has been added.
- Caterpillar ADEM & EMCP
  - New parameters have been added - Diesel Particulate Filter Regeneration Inhibit Switch, Diesel Particulate Filter Regeneration Force Switch, Diesel Particulate Filter Lamp Command, Exhaust System High Temperature Lamp Command, Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch, Diesel Particulate Filter 1 Ash Load Percent
- Caterpillar J1939
  - New parameters have been added - Diesel Particulate Filter Regeneration Inhibit Switch, Diesel Particulate Filter Regeneration Force Switch, Diesel Particulate Filter Lamp Command, Exhaust System High Temperature Lamp Command, Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch, Diesel Particulate Filter 1 Ash Load Percent
- Iveco NEF & Cursor
  - The address of aftertreatment control has been updated
- Yanmar TNV
  - Control of the ECU has been improved
- Deutz EMR4
  - New parameter has been added - Aftertreatment SCR Operator Inducement Severity
- Scania S8 Allspeed
  - New parameter has been added - DPF Regeneration Countdown Timer
- Scania S8 Singlespeed
  - New parameter has been added - DPF Regeneration Countdown Timer
- Isuzu ECM
  - The parameter ECU Operation Time has been updated
- Agco Power EEM4
  - Aftertreatment support has been updated according to the last specification
- Cummins CM850
  - New parameters have been added - Speed Droop Adjustment, Governor Gain Adjustment

28 Changes in version 7.0.0

The ECU Scania S6 Singlespeed has been removed from all ECU Librarys. Already running installation are not affected by this change. Use Scania S6 Singlespeed from ver.1794335 for new installations as well as in case of needs of ECU configuration update.

28.1 Bug repairs

> The parameter Oil Temperature has been removed from the default configuration

> Caterpillar J1939

>> Parameter Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible) has been fixed

> Caterpillar ADEM & EMCP

>> Parameter Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible) has been fixed

> Cummins CM2150

>> Parameter Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible) has been fixed

> Liebherr LIDEC1

>> Parameter Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible) has been fixed

> MTU DDEC10

>> Parameter Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible) has been fixed

> SISU EEM3 Gen-set

>> Parameter Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible) has been fixed

> Standard J1939 engine

>> Parameter Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible) has been fixed

> Yuchai YC-LBR

>> Parameter Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible) has been fixed

> Cummins CM2880

>> The controller's address for the speed control has been fixed

> Scania S8 Allspeed

>> Sending parameters for speed control (DLN1 message) has been fixed

> Scania S6 Allspeed from ver.1794335

>> Sending parameters for speed control (DLN1 message) has been fixed

> Cummins CM2350

>> Automatic configuration of the frequency selection has been fixed according to the controller's FW specification

- Cummins CM850
  - Automatic configuration of the frequency selection has been fixed according to the controller's FW specification
- MAN MFR
  - The parameter Requested Torque is now set to 100%
- MTU MIP4000
  - The reading of the fault codes has been fixed
- John Deere
  - Mapping of parameters Aftertreatment 1 Diesel Particulate Filter Soot Load Percent, Aftertreatment 1 Diesel Particulate Filter Ash Load Percent into the controller's LAI has been fixed

28.2 New features

- There is an improvement in default configuration of the ECU in regards of the internal controller resource.
- The new ECU support has been added - Mahindra
- The new ECU support has been added - Kohler
- The new ECU support has been added - YaMZ EDC7
- The new ECU has been added - Baudouin WISE15
- New ECU Volvo J1587 has been added into the ECU Library - Allspeed. This ECU has to be configured in controller's support multiECU in order to activate the J1587 communication between the controller and the ECU.
- The name of the ECU Cummins MODBUS has been changed to Cummins GCS
- The name of the ECU Cummins CM850, CM2150, CM2250 has been changed to Cummins PGI. This configuration is suitable of any ECU module running with PGI calibration.
- Scania S6 Singlespeed from ver.1794335
  - Speed control over the proprietary TSC1 message is not used anymore. The DLN1 message is used instead
- Scania S8 Allspeed
  - Speed control over the proprietary TSC1 message is not used anymore. The DLN1 message is used instead
  - The KWP2000 diagnostic is not supported anymore
  - New parameters have been added Aftertreatment Diesel Particulate Filter Status, Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch, Diesel Particulate Filter Active Regeneration Inhibited Due to Clutch Disengaged, Diesel Particulate Filter Active Regeneration Inhibited Due to Service Brake Active, Diesel Particulate Filter Active Regeneration Inhibited Due to PTO Active, Diesel Particulate Filter Active Regeneration Inhibited Due to Accelerator Pedal Off Idle, Diesel Particulate Filter Active Regeneration Inhibited Due to Out of Neutral, Diesel Particulate Filter Active Regeneration Inhibited Due to Vehicle Speed Above Allowed Speed, Diesel Particulate Filter Active Regeneration Inhibited Due to Parking Brake Not Set, Diesel Particulate Filter Active Regeneration Inhibited Due to Low Exhaust Temperature, Diesel Particulate Filter Active Regeneration Inhibited Due to System Fault Active, Diesel Particulate Filter Active Regeneration Inhibited Due to System Timeout, Diesel Particulate Filter Active Regeneration Inhibited Due to Temporary System Lockout, Diesel Particulate Filter Active Regeneration Inhibited Due to Permanent System Lockout, Diesel Particulate Filter Active Regeneration Inhibited Due to Engine Not Warmed Up, Diesel Particulate Filter Active

Regeneration Inhibited Due to Vehicle Speed Below Allowed Speed, Exhaust System High Temperature Lamp Command, Diesel Particulate Filter Active Regeneration Inhibited Due to Low Exhaust Pressure, Urea Level, Aftertreatment 1 Diesel Particulate Filter Soot Load Percent, Aftertreatment 1 Diesel Particulate Filter Ash Load Percent, Aftertreatment 1 Diesel Particulate Filter Soot Load Regeneration Threshold

> Scania S8 Singlespeed

>> Speed control over the proprietary TSC1 message is not used anymore. The DLN1 message is used instead

>> The KWP2000 diagnostic is not supported anymore

>> New parameters have been added Aftertreatment Diesel Particulate Filter Status, Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch, Diesel Particulate Filter Active Regeneration Inhibited Due to Clutch Disengaged, Diesel Particulate Filter Active Regeneration Inhibited Due to Service Brake Active, Diesel Particulate Filter Active Regeneration Inhibited Due to PTO Active, Diesel Particulate Filter Active Regeneration Inhibited Due to Accelerator Pedal Off Idle, Diesel Particulate Filter Active Regeneration Inhibited Due to Out of Neutral, Diesel Particulate Filter Active Regeneration Inhibited Due to Vehicle Speed Above Allowed Speed, Diesel Particulate Filter Active Regeneration Inhibited Due to Parking Brake Not Set, Diesel Particulate Filter Active Regeneration Inhibited Due to Low Exhaust Temperature, Diesel Particulate Filter Active Regeneration Inhibited Due to System Fault Active, Diesel Particulate Filter Active Regeneration Inhibited Due to System Timeout, Diesel Particulate Filter Active Regeneration Inhibited Due to Temporary System Lockout, Diesel Particulate Filter Active Regeneration Inhibited Due to Permanent System Lockout, Diesel Particulate Filter Active Regeneration Inhibited Due to Engine Not Warmed Up, Diesel Particulate Filter Active Regeneration Inhibited Due to Vehicle Speed Below Allowed Speed, Exhaust System High Temperature Lamp Command, Diesel Particulate Filter Active Regeneration Inhibited Due to Low Exhaust Pressure, Urea Level, Aftertreatment 1 Diesel Particulate Filter Soot Load Percent, Aftertreatment 1 Diesel Particulate Filter Ash Load Percent, Aftertreatment 1 Diesel Particulate Filter Soot Load Regeneration Threshold

> DaimlerChrysler ADM2

>> The period for speed control has been changed to 10ms

> DaimlerChrysler ADM3

>> The period for speed control has been changed to 10ms

> Yanmar TNV

>> New paremeters have been added Diesel Particulate Filter Lamp Command, Aftertreatment Diesel Particulate Filter Passive Regeneration Status, Aftertreatment Diesel Particulate Filter Active Regeneration Status, Aftertreatment Diesel Particulate Filter Status, Diesel Particulate Filter Active Regeneration Inhibited Status, Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch, Diesel Particulate Filter Active Regeneration Inhibited Due to Clutch Disengaged, Diesel Particulate Filter Active Regeneration Inhibited Due to Service Brake Active, Diesel Particulate Filter Active Regeneration Inhibited Due to PTO Active, Diesel Particulate Filter Active Regeneration Inhibited Due to Accelerator Pedal Off Idle, Diesel Particulate Filter Active Regeneration Inhibited Due to Out of Neutral, Diesel Particulate Filter Active Regeneration Inhib ited Due to Vehicle Speed Above Allowed Speed, Diesel Particulate Filter Active Regeneration Inhibited Due to Parking Brake Not Set, Diesel Particulate Filter Active Regeneration Inhibited Due to Low Exhaust Temperature, Diesel Particulate Filter Active Regeneration Inhibited Due to System Fault Active, Diesel Particulate Filter Active Regeneration Inhibited Due to System Timeout, Diesel Particulate Filter Active Regeneration Inhibited Due to Temporary System Lockout, Diesel Particulate Filter Active Regeneration Inhibited

Due to Permanent System Lockout, Diesel Particulate Filter Active Regeneration Inhibited Due to Engine Not Warmed Up, Diesel Particulate Filter Active Regeneration Inhibited Due to Vehicle Speed Below Allowed Speed, Diesel Particulate Filter Automatic Active Regeneration Initiation Configuration, Exhaust System High Temperature Lamp Command, Diesel Particulate Filter Active Regeneration Forced Status, Aftertreatment 1 Diesel Particulate Filter Soot Load Percent, Aftertreatment 1 Diesel Particulate Filter Ash Load Percent, Aftertreatment 1 Diesel Particulate Filter Time Since Last Active Regeneration, Engine Throttle Actuator 1 Control Command, Engine Throttle Actuator 2 Control Command, Engine Fuel Actuator 1 Control Command, Engine Fuel Actuator 2 Control Command, Aftertreatment 1 Exhaust Temperature 2, Aftertreatment 1 Diesel Particulate Filter Intermediate Temperature, Aftertreatment 1 Diesel Particulate Filter Differential Pressure, Aftertreatment 1 Exhaust Temperature 2 Preliminary FMI, Aftertreatment 1 Diesel Particulate Filter Differential Pressure Preliminary FMI, Aftertreatment 1 Diesel Particulate Filter Intermediate Temperature Preliminary FMI, Aftertreatment 1 Exhaust Temperature 3, Aftertreatment 1 Diesel Particulate Filter Outlet Temperature, Aftertreatment 1 Exhaust Temperature 3 Preliminary FMI, Aftertreatment 1 Diesel Particulate Filter Outlet Exhaust Temperature Preliminary FMI, Aftertreatment 1 Exhaust Temperature 1, Aftertreatment 1 Diesel Particulate Filter Intake Temperature, Aftertreatment 1 Exhaust Temperature 1 Preliminary FMI, Aftertreatment 1 Diesel Particulate Filter Intake Temperature Preliminary FMI, Engine Fuel Injection Control Pressure, Engine Fuel 1 Injector Metering Rail 1 Pressure, Engine Fuel 1 Injector Timing Rail 1 Pressure, Engine Fuel 1 Injector Metering Rail 2 Pressure, Aftertreatment 1 Diesel Particulate Filter Intake Pressure (use SPN 3609), Engine Intake Manifold #1 Pressure, Engine Intake Manifold 1 Temperature, Engine Intake Air Pressure, Engine Air Filter 1 Differential Pressure, Engine Exhaust Temperature, Engine Coolant Filter Differential Pressure

» Aftertreatment parameters Interlock and Acknowledge are now supported in InteliLite controllers

> Cummins CM2350

» The period for speed control has been changed to 10ms

» The aftertreatment support has been upgraded - parameter SCR System Cleaning Inhibited Due to Inhibit Switch

» New parameter Aftertreatment SCR Operator Inducement Severity has been added

> Isuzu ECM

» New paremeters have been added Aftertreatment Regeneration Inhibit Switch, Aftertreatment Regeneration Force Switch

> MTU ECU 9

» Parameter MTU Error Codes is now configurable and can be added into the configuration as a standard analog input signal

> MTU SMART Connect

» Parameter MTU Error Codes is now configurable and can be added into the configuration as a standard analog input signal

> Caterpillar J1939

» The type of the parameter Requested Engine Control Mode has been changed from input to output signal

» New paremeter has been added Transmission Defuel Actuator

» New parameter have been added Transmission Oil Temperature, Engine Crankcase Pressure 1

» New texts for fault codes have been added

> **Standard J1939 engine**

>> New parameters have been added Transmission Defuel Actuator, Aftertreatment SCR Operator Inducement Severity has been added

>> Parameter Aftertreatment SCR Operator Inducement Severity is now included into the default configuration

>> The aftertreatment support has been upgraded - parameter SCR System Cleaning Inhibited Due to Inhibit Switch

>> New texts for fault codes have been added

> **Hatz EDC**

>> The aftertreatment support has been updated according to the last engine manufacturer specification

>> New parameters have been added Aftertreatment 1 Exhaust Gas Mass Flow Rate, Engine Air Filter 1 Differential Pressure, Engine Exhaust Temperature, Aftertreatment 1 Diesel Particulate Filter Differential Pressure, Aftertreatment 1 Diesel Oxidation Catalyst Intake Temperature, Aftertreatment 1 Diesel Particulate Filter Intake Temperature Preliminary FMI, Aftertreatment Diesel Particulate Filter Status, Diesel Particulate Filter Active Regeneration Inhibited Due to Out of Neutral, Diesel Particulate Filter Active Regeneration Inhibited Due to Parking Brake Not Set

> **Perkins ECM**

>> New parameters have been added Aftertreatment 1 Diesel Exhaust Fluid Tank Volume, Aftertreatment Diesel Exhaust Fluid Tank Low Level Indicator, Aftertreatment SCR Operator Inducement Severity, Aftertreatment 1 Diesel Particulate Filter Soot Load Percent, Diesel Particulate Filter Lamp Command, Exhaust System High Temperature Lamp Command, Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch, Aftertreatment Regeneration Inhibit Switch, Accelerator Pedal Position 1, Accelerator Pedal Position 2, Actual Engine - Percent Torque, Driver's Demand Engine - Percent Torque, Nominal Friction - Percent Torque, Aftertreatment 1 Exhaust Gas Mass Flow Rate, Engine Fuel Delivery Pressure, Engine Coolant Level 1, Engine Crankcase Pressure 1, Engine Intake Air Pressure, Aftertreatment 1 Diesel Particulate Filter Intake Pressure, Aftertreatment 1 Diesel Particulate Filter Intake Temperature, Engine Filtered Fuel Delivery Pressure, Engine Filtered Fuel Delivery Absolute Pressure, Engine Fuel Filter Degradation, Engine Fuel 1 Injector Metering Rail 1 Pressure, Ambient Air Temperature, Engine Intake 1 Air Temperature, Engine Turbocharger 1 Boost Pressure, Aftertreatment 1 Diesel Particulate Filter Outlet Temperature, Aftertreatment 1 Diesel Particulate Filter Differential Pressure, Engine Intake Manifold #1 Absolute Pressure, Aftertreatment 1 SCR Intake Temperature, Aftertreatment 1 SCR Outlet Temperature, Aftertreatment 1 Diesel Exhaust Fluid Concentration, Aftertreatment 1 Intake Gas Sensor 1 at Temperature, Aftertreatment 1 Intake Gas Sensor 1 Power In Range, Aftertreatment 1 Intake Gas Sensor 1 Heater Control, Aftertreatment 1 Outlet Gas Sensor 1 at Temperature, Aftertreatment 1 Outlet Gas Sensor 1 Power In Range, Aftertreatment 1 Outlet NOx Sensor 1 Preliminary FMI, Engine Air Shutoff Command Status, Engine Idle Shutdown has Shutdown Engine, Aftertreatment 1 SCR System 1 State, Engine Operating State

> **MAN EDC 17**

>> New parameters have been added Master/Slave Aftertreatment 1 Diesel Particulate Filter Intake Pressure, Aftertreatment SCR Operator Inducement Severity has been added

>> The parameter Speed control condition is now configurable and can be added into the configuration in order to control the droop of the engine

- Cummins CM2150
  - Parameter Aftertreatment SCR Operator Inducement Severity is now included into the default configuration
  - The aftertreatment support has been upgraded - parameter SCR System Cleaning Inhibited Due to Inhibit Switch
  - New parameters have been added Engine Exhaust Gas Port 1 Temperature - Engine Exhaust Gas Port 20 Temperature, Engine Intake Manifold 2, Engine Intake Manifold 3, Engine Intake Manifold 4, Engine Turbocharger 1 Boost Pressure, Engine Turbocharger 2 Boost Pressure, Aftertreatment SCR Operator Inducement Severity has been added
- MTU DDEC10
  - Parameter Aftertreatment SCR Operator Inducement Severity is now included into the default configuration
  - New parameter Aftertreatment SCR Operator Inducement Severity has been added
- Yuchai YC-LBR
  - Parameter Aftertreatment SCR Operator Inducement Severity is now included into the default configuration
- Iveco NEF & Cursor
  - New parameters have been added DEF Level, DEF Quality, DEF Technical Failure, Aftertreatment 1 Diesel Particulate Filter Soot Load Percent , Aftertreatment 1 Diesel Particulate Filter Ash Load Percent , Diesel Particulate Filter Lamp Command , Exhaust System High Temperature Lamp Command, Aftertreatment SCR Operator Inducement Severity , Aftertreatment Diesel Exhaust Fluid Tank Low Level Indicator, Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch, Aftertreatment Regeneration Inhibit Switch, Aftertreatment Regeneration Force Switch
- Deutz EMR4
  - The stop command has been improved
  - New parameters have been added Engine Torque Map Selector, Droop Selector
- MTU MIP4000
  - New texts for fault codes have been added
- Cummins CM2880
  - The aftertreatment support has been upgraded - parameter SCR System Cleaning Inhibited Due to Inhibit Switch
- MAN MFR
  - The aftertreatment support has been upgraded - parameter SCR System Cleaning Inhibited Due to Inhibit Switch
- Caterpillar ADEM & EMCP
  - New texts for fault codes have been added
- John Deere
  - New parameter Aftertreatment SCR Operator Inducement Severity has been added
- Deutz EMR2
  - New parameter has been added Preheat information
- Deutz EMR3
  - New parameter has been added Preheat information

> Deutz EMR4

>> New parameter has been added Preheat information

> VM Industrial

>> New parameters have been added Aftertreatment 1 Diesel Exhaust Fluid Tank Volume, Aftertreatment 1 Diesel Exhaust Fluid Tank Temperature 1

> MTU ECU7

>> New parameters have been added Disable Cylinder Cut Out 1, Disable Cylinder Cut Out 2

> Volvo Allspeed

>> New parameters have been added Max Shift Engine Speed, Target Shift Engine Speed, Max Trolling Engine Speed, Engine Configuration Code, Calibration State

>> Speed control (Throttle Position) has been added for InteliLite, InteliGen 200 and InteliGen 500 controllers

> Jenbacher Diane

>> New parameters have been added Jacket Water Temperature, Jacket Water Pressure, Engine Oil Temperature, Engine Oil Pressure, ExhstGasTemp-Turbocharger, ExhstGasTemp-HeatExchanger, PlateTempExhstGasHeatExch, Cylinder Exhaust Gas Temp, Heating Water Return Temp, Generator Power Factor, Generator Frequency, Gener. Current Average, Gener. Voltage Aver. Ph-Ph, Total Active Output, Total Reactive Output, Setpoint Power Control, Operation Hours Counter, Start Counter, Fuel Mixture Temperature, Excitation Voltage, Generator Voltage L1-L2, Generator Power, Generator Reactive Power, Generator Apparent Power, Generator Neutral Current, Boost Pressure Actual Value, Gasmixer Position, Throttle Valve Position, Turbocharg Bypass Position, Jacket Water Temperature, Exhaust Gas Temperature Cyl - Exhaust Gas Temperature Cyl20, Charge Temperature (fuel mixture Temperature), Excitation Voltage, Gnerator Winding Temperature L2, Gnerator Winding Temperature L3, Generator Bearing Drive End, Generator Bearing Non-Drive End, Speed, Generator Power, Generator Neutral Current, Boost Pressure Actual Value, Lambda-TECJET

29 Changes in version 6.9.0

29.1 Bug repairs

> Agco Power EEM4

>> Parameter "Cytalyst Tank Temperature" name has been cahnged to "Aftertreatment 1 Diesel Exhaust Fluid Tank Temperature 1",

> Caterpillar ADEM & EMCP

>> Decimals in certain parameters with psi units has been fixed,

>> The Issue where "Engine Speed" was not configured into LAI in GenConfig and DriveConfig by default has been fixed,

> Caterpillar J1939

>> The issue where "Oil Pressure" was configured twice (configured into ECU Input1 and ECU Input2) with incorrect dimension as °C has been fixed.,

>> Decimals in certain parameters with psi units has been fixed,

> Scania S6 Allspeed

>> The Issue where multiple Fault Codes over DM1 were not read has been fixed ,

> Scania S6 Allspeed from ver.1794335

>> The Issue where multiple Fault Codes over DM1 were not read has been fixed ,

>> Decimals in certain parameters with psi units has been fixed,

> Scania S6 Singlespeed

>> The Issue where multiple Fault Codes over DM1 were not read has been fixed ,

>> Default configuration of parameter „Accelerator Pedal Possition" in GenConfig and DriveConfig has been fixed,

> Scania S6 Singlespeed from ver.1794335

>> The Issue where multiple Fault Codes over DM1 were not read has been fixed,

>> Decimals in certain parameters with psi units has been fixed,

> MAN MFR

>> Decimals in certain parameters with psi units has been fixed,

> Scania S8 Allspeed

>> Decimals in certain parameters with psi units has been fixed,

> Scania S8 Singlespeed

>> Decimals in certain parameters with psi units has been fixed,

> Isuzu ECM

>> The engine control and commanding has been fixed,

> Cummins CM2150

>> Decimals in certain parameters with psi units has been fixed,

> Cummins PGI

>> Decimals in certain parameters with psi units has been fixed,

> MTU ECU 9

>> Decimals in certain parameters with psi units has been fixed,

- Standard J1939 engine
  - Decimals in certain parameters with psi units has been fixed,
- Standard J1939 monitor
  - Decimals in certain parameters with psi units has been fixed.

29.2 New features

- A new ECU support has been added - MAN EDC 17,
- A new ECU support has been added - Weichai EDC,
- A new ECU support has been added - Hatz EDC,
- A new ECU support has been added - Yuchai YC-LBR,
- A new ECU support has been added - MTU MIP4000,
- A new ECU support has been added - MTU ECU7,
  - It supports a direct connection of MTU ECU7 with a controller. The supported ECU7 protocol is MCS-5 (modul 501).
- ECU Ford e-control has been added into ECU Library - InteliLite 2015 and ECU Library - InteliLine,
- ECU Yanmar TNV has been added into ECU Library - InteliLite 2015, ECU Library - InteliLine and ECU Library - InteliNano,
- Source parameter of aftertreatment icon "Aftertreatment SCR Operator Inducement Severity" has been changed,
- Agco Power EEM4
  - Parameter "Stop Request" has been added,
- Caterpillar J1939
  - Parameters „Engine Fuel 1 Injector Metering Rail 1 Pressure", „Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible)", "Engine Filtered Fuel Delivery Pressure", „ Aftertreatment 1 Diesel Exhaust Fluid Tank Volume", "Aftertreatment 1 Diesel Particulate Filter Soot Load Percent" and "Aftertreatment Diesel Exhaust Fluid Tank Low Level Indicator", "Engine Exhaust Temperature", "Charging System Potential (Voltage)", "Engine Coolant Level 1", "Auxiliary Temperature 1", "Auxiliary Pressure #1", "Transmission Output Shaft Speed", "Transmission Current Gear", "Transmission Selected Gear", "Engine Auxiliary Coolant Temperature", "Engine Aftercooler Coolant Level", "Engine Fuel Leakage 1", "Engine Fuel Leakage 2", "EMCP Engine Speed", "EMCP Engine Coolant Temperature", "EMCP Engine Fuel 1 Temperature 1", "EMCP Key Switch Battery Potential", "EMCP Battery Potential / Power Input 1", "EMCP Engine Oil Filter Differential Pressure", "EMCP Engine Fuel Delivery Pressure", "EMCP Engine Oil Pressure", "EMCP Protect Lamp", "EMCP Amber Warning Lamp", "EMCP Red Stop Lamp", "EMCP Malfunction Indicator Lamp" have been added,
  - Parameter "Generator Total Real Power" has been removed,
  - Texts of fault codes SPN 1153-1156 have been added,
- Isuzu ECM
  - Proprietary parameter „Engine Torque" has been added,
- Kubota
  - Parameter „Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible)" has been added,

- Liebherr LIDEC1
  - Parameter „Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible)" has been added,
- MTU DDEC10
  - Parameter „Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible)" has been added,
- SISU EEM3 Gen-set
  - Parameter „Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible)" has been added,
- SISU EEM3 Propulsion
  - Parameter „Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible)" has been added,
- Scania S6 Allspeed from ver.1794335
  - Parameter "Engine Requested Speed Control Conditions" is now available for user configuration,
  - Parameters "Key Switch Battery Potential", "Lamp Test", "Low Engine Oil Level", "High Engine Oil Level", "Low Urea Level", "Retarder Selection" and "Engine Wait to Start Lamp" have been added,
  - Support of DM11 frames, DM1 multiframes on 0x00 address and DM11, DM1 multiframes on 0x3D address have been added,
- Scania S6 Singlespeed from ver.1794335
  - Parameter "Engine Requested Speed Control Conditions" is now available for user configuration,
  - Parameters "Engine Oil Level", "Battery Potential / Power Input 1", "Low Engine Oil Level", "High Engine Oil Level", "Low Urea Level", "Retarder Selection" and "Nominal Speed Switch 2" have been added,
- Deutz EMR2
  - Parameter „Software ID" has been removed,
- Deutz EMR3
  - Parameter „Software ID" has been removed,
- DaimlerChrysler ADM3
  - Parameter „Software Version" has been removed,
  - Parameter „Source Address" has been removed,
  - Support of DM11 frames has been added,
- DDC DDEC IV/V
  - Parameter "Red Stop Lamp" has been added,
- Perkins 1300
  - Parameters „Engine Coolant Pressure", „Engine Coolant Pressure 2", „Engine Auxiliary Shutdown Switch" have been added
  - Text „AutoStartFail" of fault code SPN 1664 has been added,
- Perkins ECM
  - Parameters „Engine Coolant Pressure", „Engine Coolant Pressure 2", „Engine Auxiliary Shutdown Switch" have been added
  - Text „AutoStartFail" of fault code SPN 1664 has been added,

- **Cummins PGI**
  - Parameters „Emergency Stop Indication", "Utility/Isochronous Gain Select" and "Starter Selection" are now visible in the GenConfig and DriveConfig,
  - Aftertreatment icon "DPF Inhibited" source parameter has been changed to "Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch",
  - Parameters "Shutdown Override Fix", "Frequency Selection Fix", "Interface Version Informational", "Engine Type" and "Protect Lamp" have been added,
- **Cummins CM2250**
  - Aftertreatment icon "DPF Inhibited" source parameter has been changed to "Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch",
- **Deutz EMR4**
  - Aftertreatment icon "DPF Inhibited" source parameter has been changed to "Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch",
- **John Deere**
  - Aftertreatment icon "DPF Inhibited" source parameter has been changed to "Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch",
- **Kubota**
  - Aftertreatment icon "DPF Inhibited" source parameter has been changed to "Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch",
- **MTU DDEC10**
  - Aftertreatment icon "DPF Inhibited" source parameter has been changed to "Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch",
- **Cummins CM500**
  - Support of DM11 frames has been added,
  - Parameter "Flash Amber Warning Lamp (AWL)" has been added,
  - Text of fault code SPN 91 is no longer hidden,
  - Text "IntManigold" of fault code SPN 1043 has been added,
- **Cummins CM558**
  - Parameter "Flash Amber Warning Lamp (AWL)" has been added,
- **Cummins CM850**
  - Parameters „Emergency Stop Indication", "Utility/Isochronous Gain Select" and "Starter Selection" are now visible in the GenConfig and DriveConfig,
  - Parameters "Engine Idle Increment Switch", "Engine Idle Decrement Switch", "Engine Diagnostics Test Mode Switch", "Engine Shutdown Override Switch", "Frequency Selection" and "Engine Exhaust Gas Port 17 Temperature" - "Engine Exhaust Gas Port 20 Temperature" have been added,
- **Cummins CM2150**
  - Parameters "Trip Average Fuel Rate", "Engine Injector Metering Rail 1 Pressure", "Auxiliary Pressure #1", "Diesel Particulate Filter Active Regeneration Inhibited Due To Inhibit Switch", "Diesel Particulate Filter Lamp Command", „SCR System Cleaning Lamp Command", „Exhaust System High Temperature Lamp Command", „Aftertreatment Diesel Particulate Filter Active Regeneration Status", „Aftertreatment Diesel Particulate Filter Status", „Diesel Particulate Filter Active Regeneration Inhibited Status", „SCR System Cleaning Inhibited Due to Inhibit Switch", „Aftertreatment 1 Diesel Particulate Filter Soot Load Percent", „Aftertreatment Diesel Exhaust Fluid Tank Low Level Indicator",

„Aftertreatment SCR Operator Inducement Severity" and „Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible)" have been added,

> Cummins CM2250

>> Parameters "Aftertreatment Regeneration Force Switch" and "Flash Protect Lamp" have been added,

>> Text "CrankcasDepres" of SPN 520320 has been added,

> Cummins CM2350

>> Aftertreatment icon "DPF Inhibited" source parameter has been changed to "Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch"

>> Parameter "Engine Requested Torque – High Resolution" has been removed,

>> Parameters "Engine Auxiliary Shutdown Switch", "Interface Version Informational", "Engine Type" and "Engine Exhaust Gas Port 17 Temperature" - "Engine Exhaust Gas Port 20 Temperature" have been added,

>> Parameters "NDE Temperature", "DE Temperature", "U Phase Temperature", "V Phase Temperature", "W Phase Temperature" and "Engine Requested Torque" have been removed,

> Cummins CM2880

>> Engine speed control has been improved,

>> Parameter "Batter Potential / Power Input 1" has been added,

> Scania S8 Singlespeed

>> KWP2000 protocol is not available anymore,

>> Parameters „Torque Limit 1" and „Torque Limit 2" are visible now the GenConfig and DriveConfig,

>> Parameters „Nominal speed switch 2 (NSSW2)", „Actual ECA Mode", „Aftertreatment Clogged Status", „Aftertreatment Manual Bypass Request", „Aftertreatment Port Valve Status", „Aftertreatment Bypass Valve Status", „Aftertreatment Exotherm Status", „Aftertreatment Manual Bypass Status", „Requested Emission Controlled Area Mode", „Coordinator Stay Alive Request" and „Version Of DLN Messages Configuration" have been added,

> Scania S8 Allspeed

>> KWP2000 protocol is not available anymore,

>> Parameters „Torque Limit 1" and „Torque Limit 2" are visible in a configuration now,

>> Parameters „Retarder Selection", „Aftertreatment Clogged Status", „Aftertreatment Manual Bypass Request", „Aftertreatment Port Valve Status", „Aftertreatment Bypass Valve Status", „Aftertreatment Exotherm Status", „Aftertreatment Manual Bypass Status", „Requested Emission Controlled Area Mode" and „Coordinator Stay Alive Request" have been added,

>> Texts of many fault codes have been added,

> MTU ECU 9

>> Parameters "Requested Engine Control Mode", "Trip Group 1" and "Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch" have been added,

>> Parameters "Coolant Level", "Air Filter Differential Pressure" and "Fast Flash Malfunction Indicator Lamp" have been removed,

> MTU ADEC J1939

>> Support of DM1 multiframe and DM11 frames has been added,

>> Texts of fault codes SPN 415, 416 and 213 have been added,

- Standard J1939 engine
  - Parameter „Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible)" has been added,
  - Aftertreatment icon "DPF Inhibited" has been changed to "Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch",
  - Many new parameters have been added,
  - Parameters SPN 94, 101, 102, 109, 157, 512, 518, 519, 1176, 1203, 1208, 1213, 1483, 3038_1, 3038_2, 5054, 5246 have been updated,
- Standard J1939 monitor
  - Parameter „Engine Fuel 1 Injector Metering Rail 1 Pressure (backward FW's compatible)" has been added,
  - Aftertreatment icon "DPF Inhibited" has been changed to "Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch",
  - Many new parameters have been added,
  - Parameters SPN 94, 101, 102, 109, 157, 512, 518, 519, 1176, 1203, 1208, 1213, 1483, 3038_1, 3038_2, 5054, 5246 have been updated,
- MAN data logger
  - Communication timeout has been increased to 5000ms,
- MAN MFR
  - Controller's date and time is now broadcasted to the ECU. See particular controller's manual for supported FW,
  - Parameters "Driver's Demand Engine – Percent Torque", "Flash Protect Lamp", "Engine Starter Mode", "Engine Exhaust Temperature", "Barometric Pressure", "Master Engine Turbocharger 1 Turbine Intake Temperature", "Master Engine Turbocharger 2 Turbine Intake Temperature", "Slave Engine Turbocharger 1 Turbine Intake Temperature", "Slave Engine Turbocharger 2 Turbine Intake Temperature" have been added,
  - Texts of many new fault codes have been added.

30 Changes in version 6.8.0

30.1 Bug repairs

- Caterpillar J1939 and Caterpillar ADEM & EMCP

  - a parameter "Total Engine Hours of Operation" has been updated,

- Standard J1939 engine and Standard J1939 monitor

  - high limit of a paramater "Auxiliary Pressure #1"has been fixed,

- MAN MFR

  - value of a parameter "Requested Torque" has been changed to 100%,

30.2 New features

- A new controller InteliGen 200 is now supported,

- New ECU Yuchai YC-BCR has been added,

- New ECU Yuchai YCECU has been added,

- The source address of DM11 has been improved across the ECU Library,

- MAN MFR

  - new parameters "Seconds", "Minutes", "Hours", "Month", "Day", "Year" have been added. The current date and time is sending to the ECU. Check particular firmware for support details,

- Cummins CM2250

  - transmitted parameter "Accelerator Pedal Position" has been removed,

  - parameters "Accelerator Pedal Position 2", "Accelerator Pedal Position 1", "Engine Percent Load At Current Speed" has been added,

- Isuzu ECM

  - supports Tier4 Final. Check particular firmware for support details,

- Standard J1939 engine and Standard J1939 monitor

  - a new approach of parameters and faulcodes naming is implemented,

  - parameters "Engine Turbocharger 1 Compressor Intake Pressure", "Engine Turbocharger 2 Compressor Intake Pressure", "Engine Turbocharger 1 Boost Pressure", "Engine Turbocharger 2 Boost Pressure", "Engine Turbocharger 3 Boost Pressure", "Engine Turbocharger 4 Boost Pressure", "Engine Rated Speed", "Engine Injector Metering Rail 1 Pressure", "Engine Injector Timing Rail 1 Pressure", "Engine's Desired Operating Speed", "Engine Crankcase Pressure" reading and error state evaluations has been improved. These parameters may not be compatible with some controllers. Check particular firmware for support details,

-

  - reading an alternative dimension (g/h, gal) of parameters "Fuel Rate", "Total Fuel Used" has been improved,

- Deutz EMR4

  - parameters "Preheat active", "Ready for start / Preheat is done", "Preheat / Coldstart Lamp" have been added,

  - parameters "Diesel Exhaust Fluid Tank Level", "Aftertreatment Regeneration Inhibit Switch", "Aftertreatment Regeneration Force Switch", "DPF Lamp", "High Exhaust System Temperature Lamp

Command", "DPF Regeneration Urgency Status", "DPF Active Regeneration Inhibited Lamp", "DPF Active Regeneration Inhibited Due to Inhibit Switch", and Tier4 Final has been added,

> Cummins CM2350

 >> a control of "Idle/Rated" switch has been added for InteliLite controllers family,

> Cummins CM570

 >> a control of "Idle/Rated" switch has been added for InteliLite controllers family,

> Cummins CM850

 >> a control of "Idle/Rated" switch has been added for InteliLite controllers family,

> Cummins PGI

 >> a control of "Idle/Rated" switch has been added for InteliLite controllers family,

> Volvo Singlespeed

 >> a control of "Idle/Rated" switch has been added for InteliLite controllers family,

> Volvo Singlespeed and Volvo Allspeed

 >> a parameter "Aftertreatment 1 Diesel Exhaust Fluid Tank 1 Level" has been added,

> John Deere

 >> the lamp Diesel Particulate Filter Regeneration Inhibited is now linked to a parameter "Diesel particulate filter active regeneration inhibit due to inibit switch"!,

> Caterpillar J1939 and Caterpillar ADEM & EMCP

 >> parameters "Engine Throttle Valve 1 Position 1", "Engine Percent Load At Current Speed", "Engine Oil Pressure", "Engine Intake Manifold 1 Temperature", "Engine Air Filter 1 Differential Pressure", "Barometric Pressure", "Engine Coolant Pressure 1", "Engine Coolant Temperature", "Battery Potential / Power Input 1", "Engine Fuel 1 Temperature 1", "Engine Oil Temperature 1", "Engine Speed", "Engine Total Hours of Operation", "Engine Fuel Shutoff 1 Control", "Gaseous Fuel Correction Factor", "Engine Turbocharger 1 Boost Pressure", "Engine Exhaust Gas Port 1 Temperature", "Engine Exhaust Gas Port 2 Temperature", "Engine Exhaust Gas Port 3 Temperature", "Engine Exhaust Gas Port 4 Temperature", "Engine Exhaust Gas Port 5 Temperature", "Engine Exhaust Gas Port 6 Temperature", "Engine Exhaust Gas Port 7 Temperature", "Engine Exhaust Gas Port 8 Temperature", "Engine Exhaust Gas Port 9 Temperature", "Engine Exhaust Gas Port 10 Temperature", "Engine Exhaust Gas Port 11 Temperature", "Engine Exhaust Gas Port 12 Temperature", "Engine Exhaust Gas Port 13 Temperature", "Engine Exhaust Gas Port 14 Temperature", "Engine Exhaust Gas Port 15 Temperature", "Engine Exhaust Gas Port 16 Temperature", "Engine Exhaust Gas Port 17 Temperature", "Engine Exhaust Gas Port 18 Temperature", "Engine Exhaust Gas Port 19 Temperature", "Engine Exhaust Gas Port 20 Temperature", "Engine Turbocharger 1 Compressor Intake Temperature", "Engine Turbocharger 1 Turbine Intake Temperature", "Engine Turbocharger 1 Turbine Outlet Temperature", "Engine Oil Filter Intake Pressure", "Engine Shutdown Override Switch", "Engine Fuel System 1 Gas Mass Flow Rate", "Engine Cylinder 1 Knock Level", "Engine Cylinder 2 Knock Level", "Engine Cylinder 3 Knock Level", "Engine Cylinder 4 Knock Level", "Engine Cylinder 5 Knock Level", "Engine Cylinder 6 Knock Level", "Engine Cylinder 7 Knock Level", "Engine Cylinder 8 Knock Level", "Engine Cylinder 9 Knock Level", "Engine Cylinder 10 Knock Level", "Engine Cylinder 11 Knock Level", "Engine Cylinder 12 Knock Level", "Engine Cylinder 13 Knock Level", "Engine Cylinder 14 Knock Level", "Engine Cylinder 15 Knock Level", "Engine Cylinder 16 Knock Level", "Engine Cylinder 17 Knock Level", "Engine Cylinder 18 Knock Level", "Engine Cylinder 19 Knock Level", "Engine Cylinder 20 Knock Level", "Engine Fuel Specific Gravity", "Engine Fuel Valve 1 Intake Absolute Pressure", "Engine Fuel Valve 1 Differential Pressure", "Engine Cylinder 1 Ignition

Transformer Secondary Output", "Engine Cylinder 2 Ignition Transformer Secondary Output", "Engine Cylinder 3 Ignition Transformer Secondary Output", "Engine Cylinder 4 Ignition Transformer Secondary Output", "Engine Cylinder 5 Ignition Transformer Secondary Output", "Engine Cylinder 6 Ignition Transformer Secondary Output", "Engine Cylinder 7 Ignition Transformer Secondary Output", "Engine Cylinder 8 Ignition Transformer Secondary Output", "Engine Cylinder 9 Ignition Transformer Secondary Output", "Engine Cylinder 10 Ignition Transformer Secondary Output", "Engine Cylinder 11 Ignition Transformer Secondary Output", "Engine Cylinder 12 Ignition Transformer Secondary Output", "Engine Cylinder 13 Ignition Transformer Secondary Output", "Engine Cylinder 14 Ignition Transformer Secondary Output", "Engine Cylinder 15 Ignition Transformer Secondary Output", "Engine Cylinder 16 Ignition Transformer Secondary Output", "Engine Cylinder 17 Ignition Transformer Secondary Output", "Engine Cylinder 18 Ignition Transformer Secondary Output", "Engine Cylinder 19 Ignition Transformer Secondary Output", "Engine Cylinder 20 Ignition Transformer Secondary Output", "Engine Cylinder 1 Ignition Timing", "Engine Cylinder 2 Ignition Timing", "Engine Cylinder 3 Ignition Timing", "Engine Cylinder 4 Ignition Timing", "Engine Cylinder 5 Ignition Timing", "Engine Cylinder 6 Ignition Timing", "Engine Cylinder 7 Ignition Timing", "Engine Cylinder 8 Ignition Timing", "Engine Cylinder 9 Ignition Timing", "Engine Cylinder 10 Ignition Timing", "Engine Cylinder 11 Ignition Timing", "Engine Cylinder 12 Ignition Timing", "Engine Cylinder 13 Ignition Timing", "Engine Cylinder 14 Ignition Timing", "Engine Cylinder 15 Ignition Timing", "Engine Cylinder 16 Ignition Timing", "Engine Cylinder 17 Ignition Timing", "Engine Cylinder 18 Ignition Timing", "Engine Cylinder 19 Ignition Timing", "Engine Cylinder 20 Ignition Timing", "Engine Desired Ignition Timing 1", "Engine Actual Ignition Timing", "Engine Fuel Valve 1 Position", "Engine Starter Mode", "Specific Heat Ratio", "Engine Throttle Actuator 1 Control Command", "Engine Turbocharger Compressor Bypass Actuator 1 Command", "Requested Engine Control Mode", "Engine Operating State", "Time Remaining in Engine Operating State", "Engine Oil Priming Pump Switch", "Engine Oil Priming State", "Engine Emergency (Immediate) Shutdown Indication", "Engine Derate Request", "Engine Turbocharger Compressor Bypass Actuator 1 Position", "Engine Exhaust Temperature Average", "Engine Exhaust Bank 2 Temperature Average", "Engine Exhaust Bank 1 Temperature Average", "Engine Intake Manifold 1 Absolute Pressure (High Resolution)", "Engine Throttle Valve 1 Differential Pressure", "Engine Oil Filter Differential Pressure (Extended Range)", have been added or renamed.

31 Changes in version 6.7.0

31.1 Bug repairs

- John Deere
  - » Tier4 supported has been improve
- Scania S8 Allspeed, Scania S8 Singlespeed
  - » A wrong identification of DLN1 message has been fixed
- Cummins CM2880, JCB Delphi DCM, MTU DDEC10, MTU ECU 9, Standard J1939 engine, Standard J1939 monitor
  - » Parameters "Aftertreatment 1 Intake NOx" and "Aftertreatment 1 Outlet NOx" have been updated

31.2 New features

- MTU ADEC J1939
  - » Parameters "EAC/Engine Auxliliary Coolant Pressure" and "EFL/P1 / Coolant Pressure" have been added
- Isuzu ECM
  - » Tier4F support for InteliLite controller family has been added
- Iveco NEF & Cursor, Iveco NEF & Cursor Tier3
  - » A new fault codes are translated to the text
- Caterpillar J1939,Caterpillar ADEM & EMCP
  - » A new fault codes are translated to the text
- Scania S6 Singlespeed,Scania S6 Singlespeed from ver.1794335
  - » Contifuration of the frequency selection is done automatically now for InteliGen^{NT}, InteliSys^{NT}controller family
- MTU EIM
  - » Parameters "Protect Lamp","Malfunction Lamp","Flash Malfunction Indicator Lamp","Flash Red Stop Lamp","Flash Amber Warning Lamp" have been added
- GM MEFI6
  - » Parameters "Spark Advance","Bank_A Close Loop Fuel Control","O2 Sensor_A1 Raw Voltage","O2 Sensor_A1 Rich/Lean Cross Counts","Bank_A BLM Cell","Bank_A BLM[Cell] Value","Bank_A Fuel Mult","Bank_B Close Loop Fuel Control","O2 Sensor_B1 Raw Voltage","O2 Sensor_B1 Rich/Lean Cross Counts","Bank_B BLM Cell","Bank_B BLM[Cell] Value","Bank_B Fuel Mult","O2 Sensor_A2 Raw Voltage","O2 Sensor_B2 Raw Voltage","Throttle Position","CurrentRpmRatedTorque","Cam-W Angle","Reference Cam-W Angle" have been added
- John Deere
  - » A new parameter "Engine Requested Torque/Torque Limit" has been added

32 Changes in version 6.6.0

32.1 Bug repairs

> Parameter "Oil Pressure" reading in InteliLite 2015 resolved.

> Isuzu ECM

>> Parameters conflict between "StopReq" and "EngProtHoldSig" resolved.

>> Parameters "TotalOperationHours", "Battery potential", "Electrical potential" reading resolved

> Cummins CM2350

>> Configuration problems in LiteEdit 2015 resolved

32.2 New features

> A new ECU Cummins CM2880 is now supported

> Isuzu ECM

>> Tier4Final support for InteliGen and InteliSys family controller has been added

> Volvo EDC7 Allspeed KWP2000

>> Text of fault codes has been extended.

> Cummins CM850

>> New parameters "CurrentGear", "SelectedGear", "OutShaftSpeed" have been added

> Caterpillar J1939

>> New paremeters have been added "IntervoolerTemp", "CurrentGear", "SelectedGear", "OutShaftSpeed"

33 Changes in version 6.5.0

33.1 Bug repairs

- Dimension of the parameters "Air Filter Differential Pressure" and "Barometric Pressure" has been updated and unified
- MTU SMART Connect
  - The parameter "Requested speed" is now configured automatically in the GenConfig PC software
- Scania S6 Allspeed
  - Speed control in InteliDrive Litehas been fixed
- Scania S6 Allspeed from ver.1794335
  - Speed control in InteliDrive Lite has been fixed
- MAN data logger
  - The parameters related to the aftertreatment have been removed
- Speed control of Cummins CM2150, Kubota, MTU DDEC10, VM Marine and Standard J1939 enginehas been improved

33.2 New features

- A new ECU Guascor LECM E6 is now supported
- A new ECU Cummins CM2350is now supported
- Yanmar TNV is now available in ECU Library - Gensets.esl and ECU Library - InteliLite2015.esl
- DaimlerChrysler ADM2 and DaimlerChrysler ADM3 is now available in ECU Library - Gensets.esl
- Dimension of parameter "Barometric Pressure" has been uniformed to kPa
- Handling of the DM11 and DM3 has been unified. From now on only DM11 (clear diagnostic information for active DTCs) is used by ComAp controllers .
- Automatic control of parameters "Nominal Speed 1" and "Nominal Speed 2" of Scania S6 Singlespeed and Scania S6 Singlespeed from ver.1794335is available for:
  - InteliGen^{NT}, InteliSys^{NT} controllers since version 3..0
  - InteliLite controllers since version 1.2.0
- John Deere
  - New paramater has been added "SCR Operator Inducement Severity"
- MTU SMART Connect
  - The refresh rate of the speed command has been increased
  - Control of parameter "Speed Demand Switches" has been improved
  - New text of the fault code SPN520875
  - New text of the fault code SPN521128
- MTU ECU 9
  - New parameter "DEF Tank 1 Low Level Indicator" has been added
  - New text of the fault code SPN521026
  - New text of the fault code SPN521027

- Perkins ECM
  - New paremeters have been added "Turbocharger Compressor Bypass Actuator 1 Position", "Fuel Valve 1 Position", "Fuel Valve 2 Position", "Requested Fuel Valve 1 Position", "Requested Fuel Valve 2 Position", "Fuel Valve 1 Intake Absolute Pressure", "Fuel Valve Differential Pressure", "Air to Fuel Differential Pressure", "Air to Fuel Differential Pressure", "Desired Rated Exhaust Oxygen", "Desired Rated Exhaust Oxygen", "Desired Rated Exhaust Oxygen", "Desired Exhaust Oxygen" and "Actual Exhaust Oxygen"
- Automatic configuration of the parameter "Speed Bias Reference" in GenConfig PC software has been improved
- GM MEFI6
  - Parameter "Percent Load" has been removed as is not available in the ECU
- GM e-control LCI, GM e-control
  - New parameters have been added "Long-term Fuel Trim - Bank 1", "Short-term Fuel Trim - Bank 1", "Engine Exhaust Bank 1 O2 Sensor Closed Loop Operation", "Long-term Fuel Trim - Bank 2", "Short-term Fuel Trim - Bank 2", "Engine Exhaust Bank 2 O2 Sensor Closed Loop Operation" and "Engine Actual Ignition Timing"
- Agco Power EEM4
  - New parameters have been added "DEF Tank 1 Level", "DPF Reg. Inhibit Switch" and "DEF Tank 1 Low Level Indicator"
  - Parameter "DEFTankLvlLamp" is not available anymore
- Cummins MODBUS
  - New parameters have been added "Battery Voltage", "Coolant Pressure", "Fuel Supply Pressure" and "Fuel Temperature"
- Volvo Allspeed
  - The source address of parameters "DEF Tank 1 Level", "DEF Tank 1 Low Level Indicator", "Operator Inducement Severity" has been changed
  - The description of the ECU in the PC software has been updated
  - Control of parameters "Calibration State" and "Active Station" has been improved
- Caterpillar J1939, Caterpillar ADEM & EMCP
  - New parameter "Sea Water pmp Outlet Pressure" has been added

Volvo Singlespeed

- The source address of parameters "DEF Tank 1 Level", "DEF Tank 1 Low Level Indicator", "Operator Inducement Severity" has been changed
- The description of the ECU in the PC software has been updated

34 Changes in version 6.4.0

34.1 Bug repairs

- Iveco Vector
  - » an alternative dimension PSI has been added for parameter "Oil pressure"
- Parameter name and/or low limit of "Crankcase Pressure" has been modified
  - » a decimal of parameter "Fuel level" has been fixed,

34.2 New features

- ECU Library - DriveNano.esl has been removed. The ECU Library - Allspeed.esl is in used in DriveEdit PC software instead,
- A new ECU support has been added - Cummins CM2350,
- A new ECU support has been added - Cummins CM2150,
- A new ECU support has been added - Liebherr LIDEC1,
- A new ECU support has been added - MTU EIM,
- A name of the ECU "Volvo EMSI Singlespeed / EMSII" has been change to "Volvo Singlespeed",
- A name of the ECU "Volvo EMSI Allspeed" has been changed to "Volvo Allspeed",
- MTU SMART Connect
  - » a text of fault codes has been added,
- Caterpillar J1939
  - » a text of faul codes SPN 95 and 173 has been added,
  - » new parameters "Aux Valve 15 Fail Safe Mode Command", "Auxiliary Coolant Pressure", "Engine Auxiliary Coolant Temperature", "Coolant Pressure", "Engine Intercooler Coolant Level", "Engine Aftercooler Coolant Level", "Pre-filter Oil Pressure", "Fuel Leakage", "Fuel Leakage 2", "Exhaust Gas Temperature" have been added,
- Ford e-control
  - » speed control of the ECU has been modified for a better performance,
- Deutz EMR3
  - » a new parameter "Fuel delivery pressure" has been added,
- SISU EEM3 Gen-set
  - » a new parameter "Injector Metering Rail Pressure" has been added,
- John Deere
  - » a new parameter "Override control mode" has been added. InteliDrive DCU controller can control the speed or limit the torque based on this parameter configuration,
- Caterpillar ADEM & EMCP
  - » a new parameter "Engine Intercooler Coolant Level" has been added,
- JCB Delphi DCM
  - » parameters(see table below) have been added.

Parameter name	SPN	type
Intake NOx	3216	ANAIN
AT1 Intake O2	3217	ANAIN
Aftertreat1 ExhGas Temp 1	3241	ANAIN
Outlet NOx	3226	ANAIN
AT1 Outlet O2	3227	ANAIN
DEF Tank 1 Level	1761	ANAIN
Diesel Exhaust Fluid Tank 1 Temperature	3031	ANAIN
Flash Malfunction Lamp	3038	ANAIN
Flash Red Stop Lamp	3039	ANAIN
Flash Amber Warning Lamp	3040	ANAIN
Aftertreatment Lamp Status	517640	ANAIN
Inducement Level	517641	ANAIN
Refresh Status Byte	517649	ANAIN
SCR Monitor	517650	ANAIN
Successful Running Refreshes	517651	ANAIN
Successful Stationary Refreshes	517652	ANAIN
Red Stop Lamp	623	BININ
Amber Warning Lamp	624	BININ
Malfunction Lamp	1213	BININ
Protect Lamp	987	BININ
Bank 1 Intake Dew Point	3237	BININ
Bank 1 Exhaust Dew Point	3238	BININ
Bank 2 Intake Dew Point	3239	BININ
Bank 2 Exhaust Dew Point	3240	BININ
DPF Regeneration Inhibit Switch	3695	BINOUT
DPF Regeneration Force Switch	3696	BINOUT

35 Changes in version 6.3.1

35.1 New features

> A new ESL " ECU Library - InteliLite2015.esl" for InteliLite controller's family has been added.

36 Changes in version 6.3.0

36.1 Bug repairs

> John Deere

>> a command name "CleaningAllow" has been changed to "CleanNotAllow" to follow its functionality

36.2 New features

> Parameters "Fast Flash Malfunction Indicator Lamp" and "Flash Malfunction Indicator Lamp" (SPN3038), "Flash Red Stop Lamp" and "Fast Flash Red Stop Lamp" (SPN3039), "Flash Amber Warning Lamp" and "Fast Flash Amber Warning Lamp" (SPN3040), "Flash Protect Indicator Lamp" (SPN3041) and "Malfunction Lamp" (SPN1213) were added or modified in every SAE J1939 based ECU to support Tier4final functionality of the controller.

> VM Marine

>> The "Requested speed" parameter was modified to improve performance of engine speed control.

> Standard J1939 engine & Standard J1939 monitor

>> a support of parameters "SCR System Cleaning Lamp Command" and "SCR System Cleaning Inhibited Due to Inhibit Switch"were added

37 Changes in version 6.2.0

37.1 Bug repairs

> Isuzu ECM

>> a name of the parameter "Turbo actual opening" has been corrected,

> GM MEFI6

>> a decimal of paramater "Fuel level" has been fixed,

> JCB Delphi DCM

>> a decimal of parameter "Fuel level" has been fixed,

> Kubota

>> a control of aftertreatment has been improved.

37.2 New features

> A new ECU support has been added - MTU ECU 9,

> MTU ADEC J1939

>> parameters "AL Combined Alarm Yellow" and "AL Combined Alarm Red" have been added,

> Caterpillar J1939

>> parameters "Transmission Output Shaft Speed" and "Transmission Current Gear" have been added,

> Cummins CM850

>> parameters "Transmission Output Shaft Speed" and "Transmission Current Gear" have been added,

> MTU DDEC10

>> commands "Start Request" and "Stop Request" have been added,

> MTU SMART Connect

>> parameters "Exhaust Gas Port 17 Temp", "Exhaust Gas Port 18 Temp", :Exhaust Gas Port 19 Temp" and "Exhaust Gas Port 20 Temp" have been added.

38 Changes in version 6.1.0

38.1 New features

- A new ECU support has been added - Kubota,
- MTU SMART Connect
  - values "Fuel Delivery Pressure", "Exhaust Gas Port 1 Temp" to "Exhaust Gas Port 16 Temp", "Sea Water Pump Outlet Pressure", "P-Lube Oil Redundant", "T-Coolant Redundant" have been added,
- John Deere
  - improvment of Tier4 functionality for InteliDrive Lite controllers.

39 Changes in version 6.0.0

39.1 Bug repairs

- Cummins CM850, Cummins CM570, Cummins PGI configuration - support for InteliLite^{NT} controller has been improved,
- Deutz EMR3 configuration - behavior of function "Start Lock" and speed control for InteliCompact^{NT} controller were improved,
- GM MEFI6, MTU SMART Connect, DaimlerChrysler ADM3 configuration - speed control for InteliCompact^{NT} controller has been improved,
- Scania S6 Singlespeed configuration - proprietary (TSC1) speed control for InteliGen^{NT} , InteliSys^{NT}, InteliDrive DCU and InteliDrive Mobile controller has been improved,
- Scania S8 Allspeed, Scania S8 Singlespeed configuration - format of value "Urea level inducement state" has been changed,
- Caterpillar ADEM & EMCP
  - a value "Right Air Filter Restriction" has been renamed to "Air Filter 2 Differential Pressure",
  - a value "Air Filter Differential Pressure" has been renamed to "Air Filter 1 Differential Pressure",
  - reading of values "Exhaust Gas Temp - Right Manifold", "Exhaust Gas Temp - Left Manifold", "Turbocharger 1 Intake Temp" and "Turbocharger 2 Intake Temp" were improved,
- Isuzu ECM
  - values "Boost Pressure", "Intake Manifold Temp", "Catalyst inlet gas temp" have been modified according to a new Isuzu specification,
  - a value "Air Intake Pressure" has been removed according to a new Isuzu specification,
  - a value "Exhaust Gas Temp" has been renamed to "DPF filter Inlet Gas Temp" according to a new Isuzu specification,
- Caterpillar J1939
  - reading of values "Exhaust Gas Temp - Right Manifold", "Exhaust Gas Temp - Left Manifold", "Turbocharger 1 Intake Temp" and "Turbocharger 2 Intake Temp" have been improved,
- Cummins CM850
  - reading/control of "Crankcase Pressure" and "Shutdown Override CC" has been improved,
- Iveco NEF & Cursor
  - broadcasted data of InteliGen^{NT}, InteliSys^{NT}, InteliDrive DCU and InteliDrive Mobile controller when no analog output is configured has been changed.

39.2 New features

- ECU Library Mobile has been removed. It is now distributed as a particular installation package,
- A new ECU support has been added - MTU DDEC10,
- A new ECU support has been added - AGCO Power EEM4,
- A new ECU support has been added - MAN data logger,
- A new ECU support has been added - Volvo EDC7 Allspeed KWP2000,
- A new ECU support has been added - Standard J1939 monitor,
- A new ECU support has been added - Iveco NEF & Cursor Tier3,

> Added support of value "Total Fuel Used" for InteliLite^NT, InteliDrive Lite and InteliCompact^NT controllers,

> Automatic configuration of value "Engine Oil Pressure" from the ECU as a main source for the controller has been added,

> Caterpillar ADEM & EMCP

>> values "Total Engine Hours", "Air Inlet Temperature", "Alternator Bearing 1 Temperature", "Alternator Bearing 2 Temperature", "Alternator Winding 1 Temperature" to "Alternator Winding 3 Temperature", "Pre-filter Oil Pressure", "Auxiliary Coolant Pressure", "Turbocharger 1 Intake Temperature", "Turbocharger 2 Intake Temperature", "Turbo 1 Inlet Pressure", "Turbo 2 Inlet Pressure", "Fuel Filter (Suction) Intake Absolute Pressure", "Fuel Temperature 2" and "Coolant Pressure" have been added,

>> a request for "Total Engine Hours" is now broadcasted by the controller,

>> extended text support of fault codes (SPN 137, 1137 - 1152, 1203, 1231, 1239, 4193) have been added. New hidden fault codes of SPN 234, 1656 has been added,

>> names of values have been modified from "Right Turbo Inlet Pressure" to "Turbo 1 Inlet Pressure" and from "Left Turbo Inlet Pressure" to "Turbo 2 Inlet Pressure",

> Cummins CM570

>> an automatic configuration of "Frequency Selection" based on a controller setpoint "Nominal freq" for InteliGen^NT and InteliSys^NT controllers has been added,

>> an automatic configuration of limits of "Speed Bias Reference" for InteliGen^NT and InteliSys^NT controllers has been added. The limit is set to -10% to +10% of nominal frequency,

> Cummins CM850

>> an automatic configuration of "Frequency Selection" based on a controller setpoint "Nominal freq" for InteliGen^NT and InteliSys^NT controllers has been added,

>> an automatic configuration of limits of "Speed Bias Reference" for InteliGen^NT and InteliSys^NT controllers has been added. The limit is set to -10% to +10% of nominal frequency,

>> extended text support of fault codes (SPN 166, 611, 612, 633, 697, 723, 1075, 1347, 2802, 3509, 3510, 3511, 3512, 3597, 3938, 4182, 4183) has been added,

>> values "Auxiliary Pressure #1", "Electrical Potential", "Battery Potential (Voltage)", "Exhaust Gas Temperature - Right Manifold", "Exhaust Gas Temperature - Left Manifold", "Intake Manifold 2 Temperature" to "Intake Manifold 6 Temperature", "Pre-filter Oil Pressure", "Turbocharger 1 Boost Pressure" to "Turbocharger 4 Boost Pressure", "Percent Load", "Total Fuel Used", "Trip Fuel" have been added,

>> new command "Engine Auxiliary Shutdown Switch" has been added,

>> a value "Crankcase Pressure" has been modified

> Cummins PGI

>> an automatic configuration of "Frequency Selection" based on a controller setpoint "Nominal freq" for InteliGen^NT and InteliSys^NT controllers has been added,

>> an automatic configuration of limits of "Speed Bias Reference" for InteliGen^NT and InteliSys^NT controllers has been added. The limit is set to -10% to +10% of nominal frequency,

>> an automatic configuration of limits of "Generator Governing Bias" for InteliGen^NT and InteliSys^NT controllers has been added. The limit is set to -10% to +10% of nominal frequency,

>> a value "Tank Low Level Indicator" has been renamed to "DEF Tank 1 Low Level Indicator,

> Cummins CM2250

>> a value "Tank Low Level Indicator" has been renamed to "DEF Tank 1 Low Level Indicator"

- Isuzu ECM
  - values "Target engine speed", "Fuel injection quantity level", "Engine percent torque", "Boost Pressure", "Ignition key switch", "DPF SwitchKnd", "DPF SwitchUns", "RegAuxLoadReq1", "RegAuxLoadReq2", "StartCutRelay", "EGRGasTmpWrn", "DiffPressJudg1", "Commonrail Pressure", "Instruction engine speed", "Commonrail Diff Pressure", "InAirBstTmpWrn", "ExhstGasTmpWrn", "IntAirTmpWrn", "FuelFltrClogg", "EngOilPresDrop", "BoostTmpRise", "FuelTmpRise", "ClntTmpRise", "OverrunWrn", "EmerSDoperSig", "Glow signal", "StarterSwitch", "DPF GrLampMode", "DPF AmLampMode", "DPF RegLampReq", "DPF BuzzerMode", "DPF IndiStat", "DPF RegenFlag", "Atmospheric pressure", "T-Ambient", "PCode", "Turbo actual opening", "Total operating hour", "Fuel Temperature" and command "EngineModel/SN" have been added,
  - extended text support of fault codes (SPN 675, 1131, 1381, 158, 10050 - 10052, 10045, 10046, 10048, 697, 10032, 10033) has been added,
- Iveco NEF & Cursor
  - a value "Catalyst Tank Level" has been renamed to "DEF Tank 1 Level "
- GM MEFI4/MEFI5B
  - extended text support of fault codes (SPN 38, 96, 108, 175, 627, 630, 651 - 658, 3563, 65560 - 65568, 65570 - 65573, 65580 - 65582, 65590 - 65602, 65604, 65605, 65610, 65613, 65615, 65616, 65618, 65620, 65621, 65671 - 65678, 65690, 65710, 65723 - 65726, 66001 - 66022, 66025, 66026, 66030, 66035, 66040- 66043) has been added,
- John Deere
  - period of broadcasted data by the controller has been improved,
- MTU ADEC J1939 P-engines
  - values "AirFlap A wire break", "AirFlap B wire break", "ASO Voltage to Lo on Relay", "ASO Watchdog Relay", "Emergency Stop Input 2", "Emergency Stop Input 3", "Emergency Stop Input 4", "ASO Flap A Feedback Contact", "ASO Flap B Feedback Contact", "WB SaSy Emergency Stop Output", "EMU Emergency Stop-Open Circuit" have been added,
- Standard J1939 engine
  - support of many new values has been added,
- Scania S8 Allspeed
  - support of DM1 fault codes reading has been added,
- Scania S8 Singlespeed
  - support of DM1 fault codes reading has been added,
- Volvo Allspeed
  - a new proprietary KWP2000 fault code protocol has been added. It is supported only in InteliDrive DCUcontroller. For more information please look at particular controller documentation,
  - a value "Tank Low Level Indicator" has been renamed to "DEF Tank 1 Low Level Indicator"
- Volvo Singlespeed
  - a value "Tank Low Level Indicator" has been renamed to "DEF Tank 1 Low Level Indicator"
- Automatic configuration of history header has been added for these ECU values :

Value Name	History Header
Engine Speed	Erpm
Fuel Rate	Eflr
Coolant Temperature	Eclt
Intake Temperature	Eint
Oil Pressure	Eoil
Percent Load	Eld
Boost Pressure	Ebst
Total Engine Hours	Ehr

40 Notes

40.1 Software compatibility

Version 8.9.0 can be imported into GenConfig, DriveConfig, LiteEdit, InteliConfig as a standard firmware package. It must be used with the following versions of ComAp PC software:

- GenConfig ver. 4.0.0 or newer
- DriveConfig ver. 4.0.0 or newer
- LiteEdit ver. 6.1.0 or newer
- InteliConfig ver 2.57.0 or newer

40.2 ECU Library content

ESC file	ID	Version	Description
Adelsystem_CB12245AJ.esc	279	8.9.0	Adelsystem CB12245AJ supports Smart Battery Charger via CAN bus communication.
Agco_Power_EEM4.esc	116	8.9.0	AGCOpower (formerly SISU diesel) 84WIP, 44AWF allspeed or 84WIG gen-set engines with EEM4 engine control unit. Tier4Final support.
Altronic_CD200.esc	176	8.9.0	The CD200D system can operate as a single-firing or double-firing (firing on exhaust stroke) system up to sixteen (16) cylinders. CD200, CD200EX, CD200EVS, CD200D, CD200DR, NGI-1000 and NGI-1000RC units are supported. Modbus Address 1
Altronic_CD200_mdb.esc	1031	8.9.0	The CD200D system can operate as a single-firing or double-firing (firing on exhaust stroke) system up to sixteen (16) cylinders. CD200, CD200EX, CD200EVS, CD200D, CD200DR, NGI-1000 and NGI-1000RC units are supported. Modbus Address 1
Altronic_NGI-1000.esc	221	8.9.0	Altronic NGI-1000RC ignition system on Modbus address 11
Altronic_NGI-1000_mdb.esc	1032	8.9.0	Altronic NGI-1000RC ignition system on Modbus address 11
Baudouin_LECM_E6.esc	225	8.9.0	Baudouin 12M33/12M55/16M33, 12M55NG and 16M33NG Gas engines equipped with Woodward LECM E6 electronic control unit.
Baudouine LECM E6 20V	318	8.9.0	New version of lecm e6New version of lecm e6
Baudouin_SECM70.esc	288	8.9.0	Baudouin 6M33NG/6M21NG/6M16NG/6M11NG/4M11NG and 12M33NG gas engines equipped with Woodward SECM70 electronic control unit.
Baudouin_WISE10B.esc	179	8.9.0	The WISEC10B is designed for 6 cylinders or 8 cylinders diesel engines. For the application of 12 cylinders or 16 cylinders diesel engines, two WISE10B and a master-slave structure is needed.
Baudouin_WISE13G.esc	505	8.9.0	Baudouin 6M33 EU V Genset Engine equipped with WISE13G ECU. There are 2 ECUs with a master-slave structure on engine.
Baudouin_WISE15.esc	179	8.9.0	Baudouin diesel engines 4M06G45/6, 4M06G50/5,

			6M21G400/6, 6M21G500/5, 6M33G660/6, 6M33G825/5 equipped by the WISE15 control unit. Under tests!
BENDER_ISOMETER.esc	513	8.9.0	Insulation monitoring device, only cyclic messages for monitoring is supported.
Caterpillar_ADEM_&_EMCP.esc	17	8.9.0	Caterpillar gen-sets with ADEM engine control unit and EMCP ver.3 or ver.4 control panel. No engine control by the controller is available.
Caterpillar_ADEM_A6.esc	192	8.9.0	Caterpillar engines C4.4, C7.1 and C9.3B with ADEM A6 ECU, supporting Tier4 Final and Stage V.
Caterpillar_J1939.esc	10	8.9.0	Caterpillar ACERT engines (C18, C15, C13, C11, C9, C7.1, C6.6, C4.4) and others with ADEM engine control unit. Tier 4 monitoring and control is available.
CAT_ADEM_A6_Master.esc	373	8.9.0	Caterpillar engines C4.4, C7.1"and C9.3B with ADEM A6 ECU, supporting Tier4 Final and Stage V. Main Engine control unit.
CAT_ADEM_A6_Att.esc	374	8.9.0	Caterpillar engines C4.4, C7.1"and C9.3B with ADEM A6 ECU, supporting Tier4 Final and Stage V. Diagnostic messages from the aftertreatment.
CAT_AlternatorSensor.esc	376	8.9.0	Caterpillar gen-sets with ADEM engine control unit and EMCP ver.3 or ver.4 control panel. No engine control by the controller is available. Tier 4 interim monitoring is available. Unit with Temperature of Alternator bearing and winding.
CAT_EMCP3_Module.esc	375	8.9.0	EMCP ver.3 or ver.4 control panel. No engine control by the controller is available. Tier 4 interim monitoring is available
CAT_GasSensor.esc	377	8.9.0	Caterpillar gen-sets with ADEM engine control unit and EMCP ver.3 or ver.4 control panel. No engine control by the controller is available. Tier 4 interim monitoring is available. Unit with Temperatures of engine exhaus gas
CAT_Master.esc	503	8.9.0	Caterpillar gen-sets with ADEM engine control unit and EMCP ver.3 or ver.4 control panel. No engine control by the controller is available. Tier 4 interim monitoring is available. Unit with Temperatures of engine exhaus gas.
CATL_Battery_Management_Unit.esc	1069	8.9.0	mBMU and sBMU units from CATL
Chint_BESS_Inverter.esc	1071	8.9.0	Support of Chint ECB200KTL BESS inverter
ComAp_SmartBatteryCharger.esc	68	8.9.0	ComAp AGM, Gel, Ni-Cd, Ni-MH, Li-Ion battery charger with power supply functionality.
CSI_PVInverter.msc	1093	8.9.0	Canadian Solar PV inverter support of CSI 15-120K series.
Cummins_CM2150.esc	134	8.9.0	Cummins engines ISDe, ISLe, ISX, ISX13 China stage 3 series with CM2150E engine control unit. Tier4Interim support. Under tests!
CumminsCM2150_GasSensor1.esc	368	8.9.0	Cummins engines ISDe, ISLe, ISX, ISX13 China stage 3 series with CM2150E engine control unit. Tier4Interim support. Unit with Temperatures of engine exhaus gas port 2 - 20 but only even numbers.
CumminsCM2150_GasSensor2.esc	369	8.9.0	Cummins engines ISDe, ISLe, ISX, ISX13 China

			stage 3 series with CM2150E engine control unit. Tier4Interim support. Unit with Temperatures of engine exhaus gas port 1 - 19 but only odd numbers.
CumminsCM2150_Main.esc	367	8.9.0	Cummins engines ISDe, ISLe, ISX, ISX13 China stage 3 series with CM2150E engine control unit. Tier4Interim support. Main Engine control unit.
Cummins_CM2250.esc	59	8.9.0	Cummins industrial engines series ISB, ISX with CM2250 engine control unit. Tier 4 monitoring and control is available. Tier4Final support.
Cummins_CM2350.esc	101	8.9.0	Cummins engines QSF3.8, QSB4.5, QSB6.7, QSL8.9, QSX15, QSK95 and QSG12 with CM2350 control unit. Tier 4 Final monitoring and control is available. Tier4Final support.
Cummins_CM2350_industrial.esc	222	8.9.0	Cummins industrial diesel engines QSB4.5, QSB 6.7, QSL9, QSX15 and QSG12, equipped with CM2350 ECU. Tier 4Final support.
CumminsCM2358_ChildModule_00.esc	396	8.9.0	Child Engine control unit with address 0x00 for cummins gas engines K19 series equipped with CM2358 engine control unit.
CumminsCM2358_ChildModule_01.esc	397		
CumminsCM2358_Parent.esc	395	8.9.0	Parent Engine control for cummins gas engines K19 series equipped with CM2358 engine control unit.
Cummins_CM2880.esc	154	8.9.0	Cummins engines ISDe NS3, ISLe NS3, ISBe NS4, ISC3 NS4, ISDe NS4, ILSe NS4, ISZ NS4 series with CM2880 engine control unit. Under tests!
Cummins_CM500.esc	57	8.9.0	Cummins industrial engines QSK19, QSK23, QSK45, QSK60, QSK78 engines with CM500 engine control unit.
Cummins_CM558.esc	33	8.9.0	Cummins gas engines with CM558 unit.
Cummins_CM570.esc	4	8.9.0	Cummins engines QSM, QSX, ISM series with CM570 engine control unit. Required G-Drive or Industrial calibration according to application.
Cummins CM700.esc	199	8.9.0	Cummins engines with QSK19G, QSK60G, QSV91G with CM700 engine control unit.
Cummins_CM800.esc	67	8.9.0	Cummins industrial engines ISB, ISBe series with CM800 engine control unit.
Cummins_CM850.esc	26	8.9.0	Cummins engines QSL, QSB, QSK, QST, series with CM850 engine control unit. Required G-Drive or Industrial calibration according to application. Tier4Final support.
Cummins_GCS.esc	5	8.9.0	Cummins engines with GCS engine control unit. Communication interface RS485
Cummins_PGI.esc	43	8.9.0	Cummins PGI 1.1 engines - QSB, QSL series with CM2250 engine control unit; QSK series with CM2150 engine control unit; QSB, QSL, QSM series with CM850 engine control unit. Tier 4 monitoring and control is available. Tier4Final support.
DaimlerChrysler_ADM2.esc	24	8.9.0	DaimlerChrysler 500, 900, 450 series engines equipped with PLD-MR engine control unit and ADM2 vehicle control adaptation module.
DaimlerChrysler_ADM3.esc	42	8.9.0	DaimlerChrysler 500, 900, 450 series engines equipped with PLD-MR engine control unit and ADM3 vehicle control adaptation module.

Danfoss_Microgrid_Converter.esc	1093	8.9.0	Support of Danfoss Microgrid Converter EC-C1200-450
Danfoss_Motor_Inverter.esc	509	8.9.0	Support of Danfoss Motor Inverter EC-C1200-450
Danfoss_Line_Converter.esc	510	8.9.0	Support of Danfoss Line Converter EC-C1200-450
Danfoss_Switch_Connverter.esc	512	8.9.0	Support of Danfoss Switch Control Converter EC-C1200-450
DDC_DDEC_IV/V.esc	9	8.9.0	Detroit Diesel or MTU series 60 engines equipped DDEC IV or DDEC V engine control unit.
Delta_SC.msc	1083	8.9.0	Delta Smart Grid Communication Site-Controller
Deutz_EMR2.esc	8	8.9.0	Deutz engines series 1000 with EMR2 engine control unit (similar to Volvo EDC4).
Deutz_EMR3.esc	25	8.9.0	Deutz engines series 2000 with EMR3 engine control unit.
Deutz_EMR4.esc	70	8.9.0	Deutz engines TDC 3.6, TDC 4.1, TDC 6.1, TDC 7.8, TDC 12 or others with EMR4 control unit. Tier 4 monitoring and control is available. Tier4Interim support.
Deutz_EMR5.esc	194	8.9.0	Deutz engines TCD 9.0 and other Deutz engines with ECU EMR 5 / MD1. Stage V monitoring and control is supported.
Doosan_G2_EDC17.esc	193	8.9.0	Doosan G2 stage V engines (D18, D24, and D34) equipped with Bosch EDC17C87.
Daimler_CPC4.esc	209	8.9.0	The ECU CPC4 is for Daimler engine OM47x series (MTU 6R1x00 series)
Dongfeng_Cummins.esc	218	8.9.0	Cummins ISDe, ISLe, ISZ series with Dongfeng control unit.
Doosan_EDC17_G40.esc	306	8.9.0	Doosan Diesel Engines G40 and G50 equpped with Bosch EDC17 engine control unit. Stage V support available.
Doosan_MD1.esc	206	8.9.0	For Doosan Infracore's DX22 electronically controlled diesel engine for generators equipped with Bosch MD1CE ECU.
DSE_DSEA109.esc	268	8.9.0	Deep Sea Electronics Digital Automatic Voltage Regulator (AVR) with CAN Communications & PMG.
DynaPower_BESS.msc	1062	8.9.0	This configuration supports DynaPower MPS125 battery inverters
Econtrols_EICS.esc	291	8.9.0	For up to 12 cylinder diesel engines (MAN E3262) equipped with EControls engine control unit
EControls_EICS_Child.esc	359	8.9.0	Child Engine control unit with dual ECU for up to 12 cylinder diesel engines (MAN E3262) equipped with EControls engine control unit.
EControls_EICS_Parent.esc	358	8.9.0	Parent Engine control unit for up to 6 cylinder diesel engines (MAN E3262) equipped with EControls engine control unit
Eicher DCM 7.1.esc	322	8.9.0	Eicher diesel engines E483 and E694 equipped with DCM 7.1 engine control unit.
Enmar_i7.esc	309	8.9.0	Enmar Engines MD97 Methanol Engines equipped with NIRA i7RS engine control unit.
EPCPower_BESS.msc	1061	8.9.0	CAB1000 battery storage inverter model line
Ford_e-control.esc	95	8.9.0	FORD natural gas or propane or gasoline engines 2.3L, 5.7L or others with e-control module.

FroniusSymo.esc	1026	8.9.0	Fronius Symo. SunSpec reading int+SF.
Generac_Power_Zone.esc	307	8.9.0	For monitoring and control of Generac Power Zone ECM-PZ-LSI automatic voltage regulator
GM_e-control.esc	44	8.9.0	GM natural gas or propane engines GM3.0, GM4.3, GM5.0, GM5.7 or others with e-control module.
GM_e-control_LCI.esc	58	8.9.0	GM natural gas or propane engines GM4.3, GM5.7 or others with e-control LCI engine control unit.
GM_MEFI4/MEFI5B.esc	34	8.9.0	GM diesel engines with MEFI4B or MEFI5B engine control unit.
GM_MEFI6.esc	71	8.9.0	GM diesel engines with MEFI6 engine control unit.Tier 4 monitoring and control is available.
GM_SECM.esc	35	8.9.0	GM diesel engines with Woodward SECM interface. SECM with address 1 is only supported !
Goodwe_PVinverter.msc	1055	8.9.0	Growatt PV Inverter RS485RTU v1.20.
Goodwe_ETBT.msc	1056	8.9.0	This configuration supports all Goodwe inverters from the ET and BT series.
Guascor_LECM_E6.esc	147	8.9.0	Gas engine with Woodward LECM E6 Engine control unit. Applicable for Guascor engines SFGLD 480, SFGLD 560, HGM 560. Under tests!
Hatz_EDC.esc	165	8.9.0	Hatz diesel engines series H50 (4H50TIC) equipped by EDC17engine control unit.
Heinzmann_Ariadne.esc	274	8.9.0	Heinzmann ARIADNE KC-01 knock monitoring system. Supported communication is J1939 standard over CAN.
Heinzmann_GMF.esc	172	8.9.0	Heinzmann GMA gas mixer series, communication over CAN.
Heinzmann_Helenos.esc	273	8.9.0	Heinzmann HELENOS DC 2 digital speed governor system. Supported communication is J1939 standard over CAN.
Heinzmann_Kronos.esc	275	8.9.0	Heinzmann KRONOS 20 electronically controlled mixture control system. Supported communication is J1939 standard over CAN.
Heinzmann_Pandaros.esc	105	8.9.0	Heinzmann PANDAROS DC 6 digital speed governor system. Supported communication is J1939 standard over CAN.
Heinzmann_Phlox.esc	83	8.9.0	Heinzmann PHLOX II high-energy capacity spark ignition control system, up to 24 cylinders. Supported communication is J1939 standard over CAN.
HITACHI_PQstorI_R3.msc	1095	8.9.0	Support of Hitachi PQstorI R3 BESS Inverter.
HuegliTech_AF-1500.esc	320	8.9.0	HuegliTech Gas Mixer Control AF1500P with J1939 operating mode enabled
HuegliTech_LEF200.esc	292	8.9.0	Inductive ignition system for up to 8 coils by single unit and up to 16 cylinders in total.
HuegliTech_LEF200_Module1.esc	355	8.9.0	HuegliTech's Inductive ignition system for up to 8 coils by single unit and to 16 cylinders in total. Engine Control Module 1.
HuegliTech_LEF200_Module2.esc	356	8.9.0	HuegliTech's Inductive ignition system for up to 8 coils by single unit and to 16 cylinders in total. Engine Control Module 2.
HuegliTech_LEF200_Module3.esc	357	8.9.0	HuegliTech's Inductive ignition system for up to 8 coils by single unit and to 16 cylinders in total.

			Engine Control Module 3.
HuegliTech_LEF200_Module4.esc	358	8.9.0	HuegliTech's Inductive ignition system for up to 8 coils by single unit and to 16 cylinders in total. Engine Control Module 4.
HuegliTech_SG50&SG100.esc	267	8.9.0	HT-SG-50 electronic speed governor for conventional diesel engines, HT-SG-100 for gas engines. Communication over CAN J1939.
Huawei_SmartLogger3000_EMI.msc	1081	8.9.0	This ECU module supports Huawei SmartLogger 3000 for applications with Enviromental Monitor Instrument. If PV or ESS support is also needed the corresponding SmartLogger 3000 ECU module from the Inverters -PV/BESS category shall be used on top.
Huawei_SmartLogger3000_ESS.msc	1080	8.9.0	This ECU module supports Huawei SmartLogger 3000 for applications with PVs. If ESS support is also needed the corresponding SmartLogger 3000 ECU module from the Inverters - BESS category shall be used on top.
Huawei_SmartLogger3000_PM.msc	1086	8.9.0	This ECU module supports Huawei SmartLogger 3000 for applications with Power Meter. If PV or ESS support is also needed the corresponding SmartLogger 3000 ECU module from the Inverters - PV/BESS category shall be used on top.
Huawei_SmartLogger3000_PV.msc	1080	8.9.0	This ECU module supports Huawei SmartLogger 3000 for applications with PVs. If ESS support is also needed the corresponding SmartLogger 3000 ECU module from the Inverters - BESS category shall be used on top.
INVT_XG50_70KTR.msc	1088	8.9.0	Support of XG50-70KTR PV inverter.
Isuzu_ECM.esc	36	8.9.0	Isuzu engine 4HK, 4J, 6HK, 6U, 6W series or others with ECM engine control unit. Tier 4 monitoring and control is available. Tier4Final support (check particular firmware for support details).
Iveco_EDC17.esc	301	8.9.0	Iveco NEF/Cursor engines series equipped with Bosch EDC17 control units. Tier 4 monitoring is available.
Iveco_Main.esc	351	8.9.0	Main ECU module for Iveco NEF N40, N60 series or Cursor 9, 10, 13 series engines with Bosch EDC engine control unit. Tier4Interim support.
Iveco_MD1.esc	187	8.9.0	Iveco NEF N40, N60 series or Cursor 9, 10, 13 series engines with Bosch MD1 engine control unit. Stage V support.
Iveco_MD1_IPU.esc	269	8.9.0	Iveco F5 series variable speed engines with Bosch MD1 engine control unit. Stage V support.
Iveco_MD1_Marine.esc	332	8.9.0	Iveco Cursor C16 engines for marine applications.
Iveco_NEF_&_Cursor.esc	14	8.9.0	Iveco NEF N40, N60 series or Cursor 9, 10, 13 series engines with Bosch EDC engine control unit. Tier4Interim support.
Iveco_SCR_module.esc	352	8.9.0	SCR module for Iveco NEF N40, N60 series or Cursor 9, 10, 13 series engines with Bosch EDC engine control unit. Tier4Interim support.
Iveco_Vector.esc	28	8.9.0	Iveco Vector engines with ADEM engine control unit. Tier 4 monitoring and control is available.

J1939_User_Device.esc	323	8.9.0	J1939 user device
Jenbacher_Diane.esc	22	8.9.0	Jenbacher gas engines with Diane control system. Communication interface RS485 !
JCB_DCM_Att.esc	354	8.9.0	JCB EcoMax or DieselMax engines with Delphi engine control units version DCM3.3 or DCM7.24 respectively. Diagnostic messages from the aftertreatment unit.
JCB_DCM_Main.esc	353	8.9.0	JCB EcoMax or DieselMax engines with Delphi engine control units version DCM3.3 or DCM7.24 respectively. Main Engine control unit.
JCB_Delphi_DCM.esc	23	8.9.0	JCB Dieselmax or ecoMAX engines with Delphi DCM engine control unit.
Jichai_EU3A.esc	227	8.9.0	Jichai diesel engines JC15D equipped with EU3A-00AT engine control unit.
John_Deere.esc	7	8.9.0	John Deere diesel engines with JDEC engine control unit. Tier 4 monitoring and control is available. Tier4Final support.
Kohler.esc	178	8.9.0	Kohler diesel engines series KDI 1903 - 2504 TCR
Kohler_KDI_Att.esc	350	8.9.0	Kohler diesel engines series KDI 1903 - 2504 TCR. Diagnostic messages from the aftertreatment unit.
Kohler_KDI_Main.esc	349	8.9.0	Kohler diesel engines series KDI 1903 - 2504 TCR. Main Engine control unit.
KORE_BESS.msc	1063	8.9.0	Mark1 battery storage inverter model line
Kubota.esc	122	8.9.0	Kubota diesel engine equipped with a control unit. Tier4Interim support.
Kubota_EDC17.esc	224	8.9.0	Kubota E4 and E5 type (V2403 CR) diesel engines equipped with Bosch EDC17 electronic control unit. Stage V support.
LEF200.esc	292	8.9.0	Inductive ignition system for up to 8 coils by single unit and up to 16 cylinders in total
Leroy_Somer_AVR_CD500.esc	191	8.9.0	Leroy Somer D500 series digital AVR communication over SAE J1939. For proper sunctionality check for controller's FW compatilibity!
LeroySomer_D550.esc	400	8.9.0	Leroy Somer D550 series digital AVR, proprietary protocol which allows control of the device
Liebherr_LIDEC1.esc	135	8.9.0	Liebherr Dxxx diesel engines equipped by LIDEC1 engine control unit. Under tests!
Liebherr_LIDEC2.esc	215	8.9.0	Liebherr Dxxx diesel engines equipped by LIDEC2 engine control unit.
Liebherr_LIDEC2_KnockLevel.esc	348	8.9.0	Liebherr Dxxx diesel engines equipped by LIDEC2 engine control unit. Unit with engine cylinders 9-20 knock level control.
Liebherr_LIDEC2_Main.esc	347	8.9.0	Liebherr Dxxx diesel engines equipped by LIDEC2 engine control unit. Main Engine control unit.
Mahindra.esc	180	8.9.0	Mahindra diesel engines MHEL 7.2L equipped by engine control unit - Sparrow G+ A34C or A34B. Under tests!
MAN_EDC_17.esc	174	8.9.0	MAN diesel engines equipped by EDC17 engine control unit.
MAN_EDC17_master.esc	312	8.9.0	MAN diesel engines equipped by EDC17 engine control unit. Master Engine control unit.
MAN_EDC17_slave.esc	313	8.9.0	MAN diesel engines equipped by EDC17 engine

			control unit. Slave Engine control unit.
MAN_data_logger.esc	56	8.9.0	For reading data from ID-Mobile Logger. This ECU is not supported by InteliDrive Nano controller!
MAN_Logger_Master.esc	365	8.9.0	Master ECU for reading data from ID-Mobile Logger
MAN_Logger_Slave.esc	366	8.9.0	Slave ECU for reading data from ID-Mobile Logger
MAN_MFR.esc	29	8.9.0	MAN diesel engines 6R, 8V, 12V or others with MFR interface and EDC engine control unit.
MAN_MFR_Master.esc	362	8.9.0	Master ECU for MAN diesel engines 6R, 8V, 12V or others with MFR interface and EDC engine control unit
MAN_MFR_Slave.esc	363	8.9.0	Slave ECU for MAN diesel engines 6R, 8V, 12V or others with MFR interface and EDC engine control unit
MAN_MFR_Statistics.esc	364	8.9.0	ECU with statistics for MAN diesel engines 6R, 8V, 12V or others with MFR interface and EDC engine control unit
Marathon_DVR2000EC.esc	272	8.9.0	Marathon digital automatic voltage regulator DVR2000EC+
ModbusUserDevice.esc	1024	8.9.0	Modbus User Device.
Motortech_MIC_850.esc	256	8.9.0	Motortech Ignition controller covering various Motortech products, e.g. MIC850 and others.
MTU_ADEC_J1939.esc	20	8.9.0	MTU engines series 2000/4000 with ADEC (ECU7) control unit. SAM interface module with CCB2 card is required !
MTU_ADEC_J1939_P-engines.esc	37	8.9.0	MTU P - engines series 2000/4000 with ADEC (ECU7) control unit and EMU module. SAM interface module with CCB2 card is required !
MTU_DDEC10.esc	117	8.9.0	MTU 4R1000, 6R1000, 6R1100, 6R1300, 6R1500 or Detroit DD13, DD15, DD16 or Fuso 6R10 diesel engines equipped with DDEC10 engine control unit. Tier4Final support. Under tests!
MTU_ECU7.esc	130	8.9.0	MTU engines series 4000 with ADEC (ECU7) control unit. SAM interface module is not required!
MTU_ECU 9.esc	125	8.9.0	MTU engines fitted with ECU 9 control unit. Supported diesel engines with FSW ver.2.0, gas with FSW ver.2.3. Tier4Interim support. Under tests!
MTU_ECU9_Main.esc	378	8.9.0	MTU engines fitted with ECU 9 control unit. Supported diesel engines with FSW ver.2.0, gas with FSW ver.2.3. Tier4Interim support. Main Engine control unit.
MTU_EIM.esc	120	8.9.0	Central connection box of MTU marine engine series 2000/4000. Commonly used with MTU ECU7.
MTU_MIP4000.esc	166	8.9.0	MTU MIP 4000 genset controller. It is necessary to use an UL-7112-Plus converter with appropriate configuration as a bridge between the controller and the MIP4000 panel. Under tests!
MTU_MIP4000_J1939.esc	212	8.9.0	MTU MIP 4000 genset controller. It is necessary to use an IFG converter with appropriate configuration as a bridge between the controller and the MIP4000 controller.
MTU MIP4000 v.4 CAN.esc	233	8.9.0	MTU MIP 4000 genset controller version 4.1. It is necessary to use an IFG converter with appropriate configuration as a bridge between the controller and

			the MIP4000 controller
MTU_SMART_Connect.esc	60	8.9.0	MTU engines series 1600 with ADEC (ECU8) control unit. SMART connect interface module is required !
MWM_Adem.esc	201	8.9.0	Reading of parameter ONLY from MWM engines TCG 3016 V12 or V16, equipped with CAT ADEM A4 ECU.
MWM_SECM.esc	287	8.9.0	MWM gensets with MWM 229-3, 4.12, 6.12, Scania OC13-G and MAN V12 engines with Woodward SECM70 electronic control unit.
OLiPower_BMS.msc	1096	8.9.0	Support of OLiPower BMS
Orion_BMS2.esc	508	8.9.0	Support of Orion BMS2
Perkins_ADEM_A6E11.esc	265	8.9.0	Perkins Engine 904J with ADEM A6E11 ECU. Stage V monitoring and support are supported.
Perkins_1300.esc	54	8.9.0	Perkins series 1300 engines. No engine control by the controller is available.
Perkins_ECM.esc	12	8.9.0	Perkins series 1100, 1300, 2300, 2500 and 2800 engines.
Powerlink.esc	198	8.9.0	Powerlink ECU, Communication over CAN.
Pylontech_BMS.msc	1079	8.9.0	Pylontechs range of BMS controllers used in their HV (SC1000 -S1500) PowerCube H & M series battery racks.
Scania_PCU.esc	299	8.9.0	Scania hybrid drive system.
Scania_S6_Singlespeed.esc	16	8.9.0	Scania singlespeed series DC9, DI12, DC12, DC16, D9M, DI12M, DI16M engines or others with S6 engine control unit (software version 1794335 or higher).
Scania_S6_Allspeed.esc	11	8.9.0	Scania allspeed series DC9, DI12, DC12, DC16, D9M, DI12M, DI16M engines or others with S6 engine control unit (software version 1794335 or higher).
ScaniaS6PropII_Main.esc	324	8.9.0	Scania allspeed series DC9, DI12, DC12, DC16, D9M, DI12M, DI16M engines or others with S6 engine control unit. Main Engine control unit. (software version 1794335 or higher)
Scania_S8_Allspeed.esc	69	8.9.0	Scania allspeed series DC9, DC13,DC16 engines with S8 engine control unit. Tier4Final support.
Scania_S8_Allspeed_Att.esc	327	8.9.0	Scania allspeed series DC9, DC13,DC16 engines with S8 engine control unit. Diagnostic messages from the aftertreatment unit.
Scania_S8_Allspeed_Main.esc	326	8.9.0	Scania allspeed series DC9, DC13,DC16 engines with S8 engine control unit. Stage V support. Main Engine control unit.
ScaniaS10_AS.esc	334	8.9.0	Scania Engines equipped with ECU. Aftertreatment supported.
ScaniaS8_SS_Main.esc	360	8.9.0	Scania singlespeed series DC9, DC13,DC16 engines with S8 engine control unit. Stage V support. Main Engine control unit.
Scania_S8_Singlespeed.esc	68	8.9.0	Scania singlespeed series DC9, DC13,DC16 engines with S8 engine control unit. Tier4Final support.
Schneider_Conext_XW.msc	1064	8.9.0	Conext XW and XW+ series
SDEC_Bosch.esc	301	8.9.0	SDEC 6ERAA11.8-G3, 6ERAA12.8-G3 and

			4RTAA2.8-G3 diesel engines types equipped with Bosch EDC17 engine control units.
SDEC_Denso.esc	303	8.9.0	SDEC 4HTAA4.3-G3, 6HTAA6.5-G3 and 6DTAA8.9-G3 diesel engines types equipped with Denso engine control units.
SDEC_ECTEK_F20.esc	304	8.9.0	SDEC 6KTAA25-G3, 6WTAA35-G3 and 12KTA58-G3 diesel engines types equipped with ECTEK F20 or F45 engine control units.
SDEC_ECTEK_F36.esc	305	8.9.0	SDEC 4HTAA4.5-G3 and 6HTAA7.2-G3 diesel engines types equipped with ECTEK F36 engine control units.
SENSMicroGeniusS2S4_1.esc	390	8.9.0	SENS Automatic Battery Chargers MicroGenius S2/S4.
SENSMicroGeniusS2S4_2.esc	391	8.9.0	SENS Automatic Battery Chargers MicroGenius S2/S4.
SG50&SG100.esc	267	8.9.0	HT-SG-50 electronic speed governor for conventional diesel engines, HT-SG-100 for gas engines. Communication over CAN J1939.
Siemens_GCS_E.esc	284	8.9.0	Siemens diesel engines SGE-42HM equipped by GCS-E control unit.
SINOSOAR_ESS_Inverter.msc	1094	8.9.0	Support of SP100HC (SP100HC, SP100HC-1, SP110HS, SP110HS-1) Series Energy Storage Inverter.
Sinotruk_BBM.esc	223	8.9.0	Adelsystem CB12245AJ supports Smart Battery Charger via CAN bus communication.
Sinotruk_BBM_Alarms.esc	345	8.9.0	For Sinotruk Engines MC11 series equipped with BBM electronic control unit. Unit with Alarms.
Sinotruk_BBM_Main.esc	344	8.9.0	For Sinotruk Engines MC11 series equipped with BBM electronic control unit. Main Engine control unit.
Sinotruk_BBM_TankFuel.esc	346	8.9.0	For Sinotruk Engines MC11 series equipped with BBM electronic control unit. Unit reporting tank fuel level.
SISU_EEM3_Gen-set.esc	18	8.9.0	SISU gen-set engines with EEM3 engine control unit.
SISU_EEM3_Propulsion.esc	19	8.9.0	SISU propulsion engines with EEM3 engine control unit.
SMA_DataManager.esc	1060	8.9.0	SMA's DataManager M
SolarEdge_PV_SE.esc	1035	8.9.0	This configuration supports SolarEdge SE12.5x - SE120x. Monitoring only.
Solis_PV_Inverter.esc	1070	8.9.0	All Solis inverters for PV
Standard_J1939_engine.esc	255	8.9.0	This contains only values defined by CAN SAE J1939 specification. Tier4Final support.
StandardJ1939generator.esc	392	8.9.0	Contains only values defined by SAE J1939-75.
Standard_J1939_monitor.esc	118	8.9.0	This configuration contains only received values by the controller. There is not a support of transmitted values from the controller. Use this configuration if any 3rd party module is dedicated to control the engine. Tier4Final support.
Steyr_EDC17.esc	185	8.9.0	Steyr and Volvo engines with Bosch EDC17 ECU
Steyr_M1.esc	66	8.9.0	Steyr marine or industrial engines with M1 engine control unit. No engine control by the controller is

			available.
Sungrow_logger.esc	1058	8.9.0	Sungrow Logger1000 and Logger3000
Sunspec_BESS_700.esc	1067	8.9.0	Sunspec generic BESS device with 700+ models
Sunspec PV 700	1066	8.9.0	Sunspec generic device with models 701, 714, 120, 123
Sunspec_User_Device.esc	1072	8.9.0	Empty Sunspec module for user defined parameters
Technoton_DFM.esc	321	8.9.0	Technoton fuel flow meters (one-chamber and differential)
TPEM.esc	217	8.9.0	CAT CG132B-08 / 12 / 16 or MWM TCG30XX with TPEM v1.6 panel. Communication via Modbus RTU ECU-LINK.
TRUMPF_TruConvert_AC_3025.msc	1090	8.9.0	Bidirectional inverter used for charging a DC link from a three-phase grid and for feeding the grid from the DC link's energy.
Varistep1.esc	257	8.9.0	Motortech Varistep unit.
Varistep2.esc	258	8.9.0	Motortech Varistep unit.
Victron_CCGX.msc	1052	8.9.0	Victron Color Control GX terminal for controlling and monitoring Victron inverters,bateries and chargers connected to it.
VitoblocGateway.msc	1087	8.9.0	Vitobloc Gateway made for communication with Vitobloc 200 CHP unit, making data available on Modbus TCP and RTU.
VM_Industrial.esc	32	8.9.0	VM industrial engines with EDC engine control unit.
VM_Marine.esc	31	8.9.0	VM marine engines with EDC engine control unit.
Volvo_EDC7_Allspeed_KWP2000.esc	114	8.9.0	VolvoPenta propulsion series D4, D6 engines with EDC7 engine control unit. This ECU is not supported by InteliDrive Nano controller!
Volvo_EMS4_BMS.esc	389	8.9.0	Volvo battery management system. Baudrate 500kb/s.
Volvo_Singlespeed.esc	1	8.9.0	VolvoPenta singlespeed series D9, D12, D13, D16 engines with EMSI / EMSII / EMS2.2 engine control unit.
Volvo_Allspeed.esc	2	8.9.0	VolvoPenta propulsion series D5, D7, D9, D12, D13, D16 engines with EDC or EMS engine control unit.
Volvo_EMS_J1587.esc	163	8.9.0	Volvo Pentq J1587 support.
Volvo_Industrial_EMS2.4.esc	264	8.9.0	VolvoPenta Industrial series D9, D12, D13, D16 engines with EMS 2.4 engine control unit. Stage V support available
Waukesha_ESM.esc	15	8.9.0	Waukesha Engenius Engine System Manager with Modbus interface. Communication interface RS485 !
WaukeshaESM2.esc	203	8.9.0	Waukesha Engenius Engine System Manager 2 with Modbus interface. Communication interface RS485!
WaukeshaESM2_ModbusMaster.esc	1027	8.9.0	Waukesha Engenius Engine System Manager 2 with Modbus interface. Communication interface RS485!
Weichai_Wise_10B.esc	196	8.9.0	Baudouin diesel engines 12M26, 12M33 and 16M55 equipped by Wise 10B ECU engine control unit. Currently supported only by ID-DCU Marine controller. Under tests!
Weichai_Wise10B_V2.esc	328	8.9.0	Weichai diesel engines 6WH17-M, 8WH17-M, 12WH17-M, 16WH17-M equipped with WISE10B engine control unit.

Weichai_Wise_12B.esc	195	8.9.0	Weichai engines with Wise12B control unit.
Weichai_WISE13A.esc	200	8.9.0	Weichai engines P2.3N and P4.1.
Weichai_Wise_15A.esc	170	8.9.0	Weichai diesel engines equipped by EDC7 or EDC17 engine control unit. Under tests!
Weichai_Wise18B_Duel.esc	294	8.9.0	Baudouin diesel engines 16M55 equipped by two Wise 18B ECU engine control units in master slave configuration.
WW_IC920.esc	293	8.9.0	Capacitive discharge ignition for up to 20 coils.
YaMZ_EDC7.esc	175	8.9.0	YaMZ diesel engines series 530 (534, 536), equipped by EDC7 engine control unit.
Yanmar_EDC17.esc	213	8.9.0	For Yanmar Industrial engines 3TNV88, 3TNV86, 3TNV98 series equipped with Bosch EDC17CV54. Tier 4 Final supported.
Yanmar_TNV.esc	89	8.9.0	Yanmar engine 3TNVA with TNV control unit.
Yanmar_TNV_EGC1030.esc	388	8.9.0	Yanmar ECU TNV EGC10-30 for engines 4TNV98T-Z, 4TNV98-Z, 4TNV88-Z, 4TNV84T-Z, 3TNV88-Z, 3TNV88F-E, 3TNV80FT-Z
Yuchai_ECU2_Att.esc	341	8.9.0	Yuchai engines series YC12VC, YC6C with ECU2 engine control unit. Diagnostic messages from the aftertreatment unit.
Yuchai_ECU2_Main.esc	340	8.9.0	Yuchai engines series YC12VC, YC6C with ECU2 engine control unit. Main Engine control unit.
Yuchai_YC-BCR.esc	159	8.9.0	Yuchai engines series YC6K, YC6MK, YC6L, YC6G, YC6A, YC6B with YC-BCR engine control unit. Under tests!
Yuchai_YC-LBR.esc	168	8.9.0	Yuchai engines series YC12VC, YC6C with ECU2 engine control unit. Under tests!
Yuchai_YCECU.esc	156	8.9.0	Yuchai engines series YC6T, YC6TD, YC6C, YC12VC, YC16VC with YCECU engine control unit. Under tests!

40.3 Document history

Revision number	Related sw. version	Date	Author
30	8.9.0	22.02.2025	Filip Sulek
29	8.8.0	29.11.2024	Filip Sulek
28	8.7.0	30.08.2024	Filip Sulek
27	8.5.0	15.03.2024	Jakub Vávra
26	8.5.0	05.03.2024	Jakub Vávra
25	8.4.1	18.12.2023	Ondřej Křížek
24	8.4.0	24.11.2023	Jakub Vávra
23	8.3.1	10.10.2023	Jakub Vávra
22	8.3.0	31.7.2023	Jakub Vávra
21	8.1.1	24.2.2023	Jakub Vávra
20	8.1.0	31.1.2023	Jakub Vávra
19	8.0.0	29.9.2022	Jakub Vávra
18	7.9.0	8.6.2022	Jakub Vávra
17	7.8.1	15.3.2022	Jakub Vávra
16	7.8.0	31.1.2022	Jakub Vávra
15	7.7.0	4.10.2021	Jakub Vávra
14	7.6.0	2.6.2021	Jakub Vávra
13	7.5.0	24.2.2021	Jakub Vávra
12	7.4.0	18.11.2020	Jakub Vávra
11	7.3.1	4.8.2020	Jakub Vávra
10	7.3.0	30.6.2020	Jakub Vávra
9	7.2.1	29.2.2020	Roman Taragel
8	7.2.0	26.2.2020	Roman Taragel
7	7.1.0	30.10.2019	Roman Taragel
6	7.0.0	19.6.2019	Roman Taragel
5	6.9.0	5.11.2018	Roman Taragel
4	6.8.0	10.1.2018	Roman Taragel
3	6.7.0	31.8.2017	Roman Taragel
2	6.6.0	21.6.2017	Jan Horacek
1	6.5.0	15.3.2016	Roman Taragel