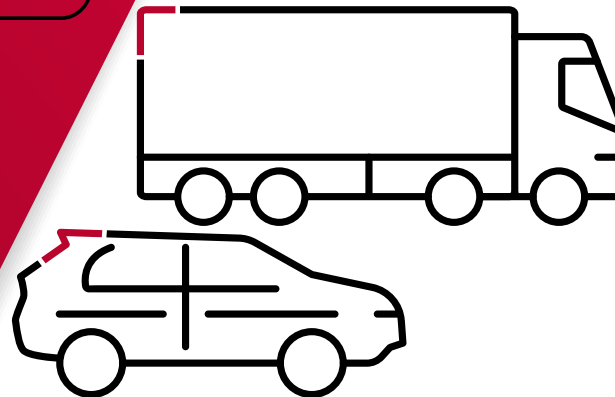


FEV Signature Solutions EU7 on board monitoring software

Get prepared! – Our OBM solution enables your software & vehicles for EU7

FEV offers

- Modular OBM software according to current EU7 requirements and ready for integration into existing software / control unit
- OBM solution for all engines – diesel, gasoline, H2, CNG, MeOH – vehicles and powertrain types
- Customization services for prototypes or series applications
- Additional services as modification/extension, integration, commissioning and serial calibration



Why FEV

- OBM software developed with extensive control & diagnostic system know-how
- Modular and flexible software that can be adapted to future EU7 regulation updates
- Innovative state of health (SoH) approach linking OBD and OBM and supporting component pinpointing
- Precise tailpipe emissions modeling and SoH ensure compliant and robust high emitter detection

Selected reference projects

OBM SOFTWARE DEVELOPMENT FOR EU7 SERIES APPLICATION



Asian OEM – FEV responsibility:

- OBM concept development for EU7 gasoline passenger vehicle
- Customization of FEV OBM software to target application
- Software testing & validation



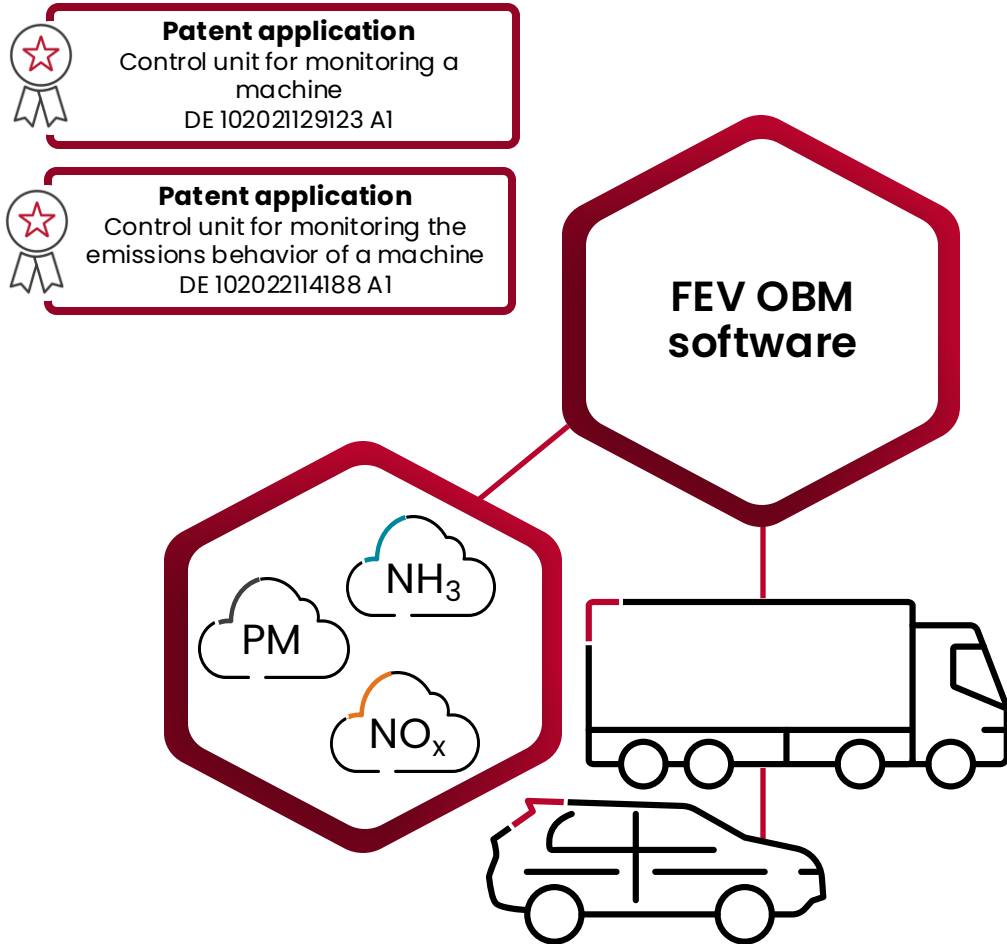
European OEM – FEV responsibility:

- OBM concept definition for EU7 gasoline and diesel passenger vehicles
- OBM software development
 - incl. emissions modeling & state of health
- OBM proof of concept with rapid control prototyping
- Calibration & validation

FEV's on board monitoring core functions

Developed, defined and approved in FEV's software landscape

ON BOARD MONITORING FUNCTIONS AS PART OF FEV'S POWERTRAIN CONTROL SOFTWARE



Raw & Tailpipe emissions models	Precise prediction of tailpipe emissions based on raw emissions models and aftertreatment component models, considering SoH information of each relevant sub-system.
SoH / Pin-pointing	Conversion of OBD monitoring values & learning values to SoH of relevant sub-systems and determination of emission impact level. Provision of additional information for repair / failure pin-pointing.
Trip conditions & emissions calculation	Determination of trip boundary conditions and calculation of OBM trip emissions according to regulation. Storage and provision of OBM meta data.
Emissions (increase) monitoring	Robust and compliant high-emitter detection inside and outside RDE/ISC conditions using tailpipe emissions and SoH information.
EEDWS & inducement	Determination of excess emissions driver warning system status (EEDWS) and triggering of inducement for NO _x , PM (and NH ₃).

Get in touch with us for further information



[www.fev.com/en/
signature-solutions](http://www.fev.com/en/signature-solutions)