

## **New Garrett Software Optimizes E-Turbo Integration with Future Electrified Powertrains**

- *Garrett control software helps redefine vehicle ECU and turbo interaction for hybrids*
- *New software architecture creates path toward predictive energy and vehicle health management*

**ROLLE, Switzerland, Sept 8, 2019** – Garrett Motion Inc. (**NYSE: GTX**), a leading differentiated technology provider in the automotive industry, has developed a new turbocharger boost control software that can significantly enhance turbo performance and health and help unlock optimized energy management in hybrid vehicles.

The company's unique expertise in advanced controls and automotive engineering resulting from more than six decades of OEM engagement, is helping OEM's enhance and speed up powertrain development, optimize performance and improve fuel economy. Garrett is providing E-Turbo hardware as well as boost control and health management algorithms for deployment within existing electronic control units (ECUs) to manage and optimize boost, torque, efficiency and emissions to further address new levels of emission reduction regulations.

Building upon the E-Turbo hardware and the electronics to run it, Garrett's latest innovation adds a modular software control for the boosting system, easy to integrate in existing ECU's.

On its own this will help optimize powertrain performance but set in the context of electrification and vehicle complexity, it is one of the key building blocks Garrett sees in paving a technology pathway to predictive energy and powertrain optimization as well as vehicle health and maintenance prognostics.

Garrett's Integrated Vehicle Health Management (IVHM) software is capable of more than just governing turbo and engine interaction. It is a comprehensive solution enabling the detection of intermittent faults and anomalies within complex vehicle systems. In this way, Garrett's software can monitor all vehicle systems and component performance in real time, so that repairs and maintenance can be anticipated and maintenance initiated to prevent costly downtime and loss of productivity.

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Garrett's IVHM creates value in several ways:

- By anticipating and directing the fixing of faults before they occur
- By providing smart diagnostics, for faster and more effective maintenance activities
- By enhancing vehicle or fleet reliability through prognosis-based maintenance

Garrett innovations in control and health management software enables OEMs to accelerate the introduction of complex technology to get immediate benefits and at the same time transform current understanding of vehicle integrity and end user productivity as well as enhancing the driver experience.

### **About Garrett**

Garrett ([www.garrettmotion.com](http://www.garrettmotion.com)) is a differentiated technology leader, serving customers worldwide for more than 65 years with passenger vehicle, commercial vehicle, aftermarket replacement and performance enhancement solutions. Garrett's cutting-edge technology enables vehicles to become safer, and more connected, efficient and environmentally friendly. Our portfolio of turbocharging, electric boosting and automotive software solutions empowers the transportation industry to redefine and further advance motion. For more news and information on Garrett, please visit [www.garrettmotion.com/news](http://www.garrettmotion.com/news).

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