



# VIRTUALISATION VALIDATION OF OVER 200 TRANSMISSION VARIANTS ON PC

Transmission control units are often developed and calibrated for dozens or hundreds of vehicle variants. Not every possible variant is physically realised during development. Even the simulation of all variants on a HiL becomes infeasible with growing number of variants, since at least the control unit must then be physically realised and integrated into the HiL system. In such variant-rich cases, simulation of the entire system, including the control unit, becomes particularly attractive. Daimler, QTronic and Vector describe how Mercedes-Benz currently uses virtual ECUs to validate transmission control software for about 200 variants of the Sprinter series in a highly automated way on Windows PC.





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