Concept 726: Vehicle Data Protocol

Final release planned for R25-11

Lars Jakubeit

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Vehicle Data Protocol

Final release planned for R24-11

Problem	Solution
In production vehicles, **dynamic data collection poses significant challenges** due to the need for efficient distribution of data collection tasks across multiple ECUs. Current methods lack a standardized approach to manage these tasks, leading to **inefficiencies in sampling and transmission strategies**. Without a standardized mechanism, **coordinating the control of ECU-local data collectors from a vehicle-global unit remains problematic**, hindering effective data collection and analysis.	The Vehicle Data Protocol (VDP) is a **communication standard between the different ECUs in a vehicle** to: • **trigger and configure** data collection • **transport data in real-time** (high frequency) • **transport condensed data to dedicated points in time** to reduce bandwidth needs (low frequency) **without vendor lock-in**.

Enables reconfigurable data collection that supports the changing needs of deployed vehicles across their lifecycle

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Enables reconfigurable data collection that supports the changing needs of deployed vehicles across their lifecycle