

## CANoe.XCP for Direct Access to Internal ECU Parameters

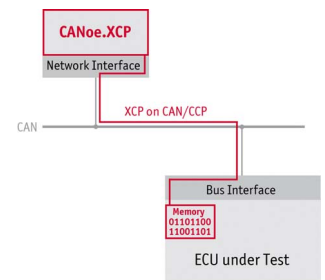
### Extended testing and analysis options with CANoe

Stuttgart, 10/22/2009 – Option CANoe.XCP, which was developed for CANoe, enables direct access to internal ECU values via the standardized ASAM calibration protocols XCP and CCP. These parameter values are used by test engineers and application developers in their testing and analysis tasks. CANoe assumes the role of XCP Master here, communicating with multiple slaves in parallel.

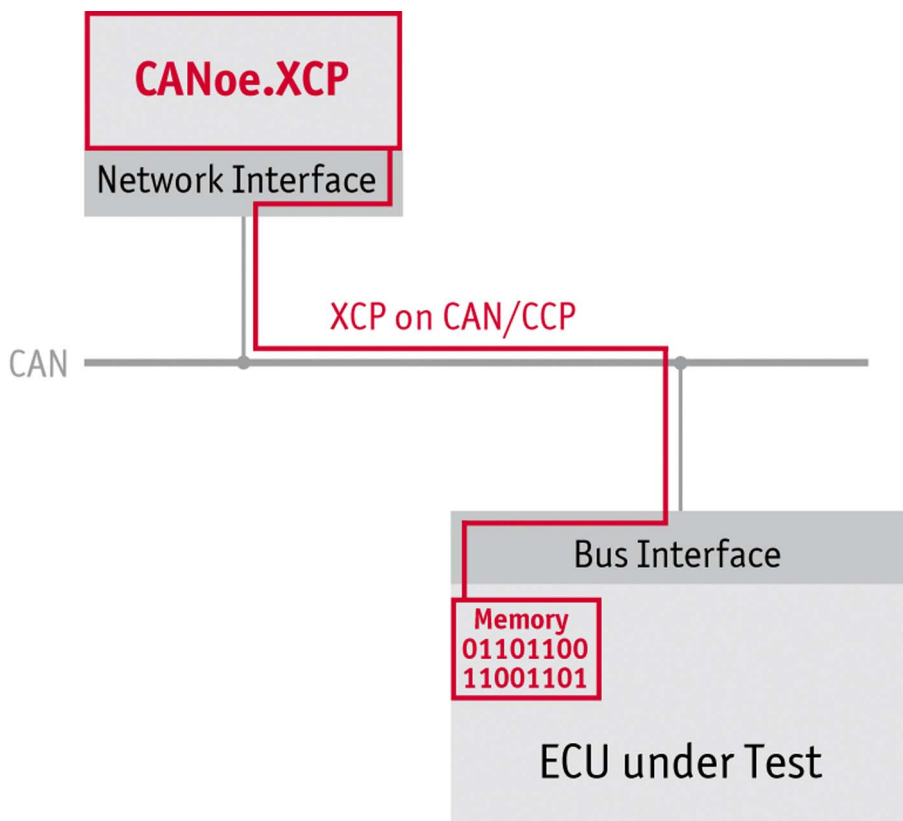
The primary use of CANoe.XCP is to read and write internal ECU parameters. In the framework of tests, ECU fault states are intentionally introduced by changing certain parameters, and the resulting ECU behavior is tested. However, CANoe.XCP does not replace calibration as an iterative process for tuning internal ECU parameters. The CANape tool from Vector continues to serve that purpose.

CANoe can read-in A2L files directly. Parameters accessed via XCP or CCP are then mapped to system variables in CANoe. With these system variables, which represent the XCP/CCP signals, the developer can work in all CANoe analysis windows and in the framework of tests.

The XCP/CCP signals can be read out in two different ways: In periodic readout, CANoe queries by a request/response method at a user-configurable cycle time. A XCP/CCP action only takes place in response to an explicit request. On the other hand, if XCP/CCP signals need to be read out from the ECU continuously, the Data Acquisition (DAQ) mode is used. In this case, a task configured in the ECU automatically reports updated parameters to CANoe.



As an alternative to Option CANoe.XCP, the CANoe tool itself offers the capability of accessing internal ECU parameters by integrating CANape as a CCP/XCP driver. This interface is independent of CANoe.XCP and can also be used autonomously. Because a XCP/CCP protocol driver is directly integrated in CANoe.XCP, this option also operates under the real-time variant CANoe RT.



[Figure: Direct XCP/CCP access to a memory address in the ECU]

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