

case studies

▶ A&D with Honda:

Minimizing development tools:
A&D uses **ASAM MCD-1 XCP**
to make RPT look like an ECU
for Honda engineers

SUMMARY

Challenge: Improving efficiency and consistency in the ECU development process.

Solution: A&D Company used ASAM MCD-1 CCP/ASAM MCD-1 XCP as a means to connect hardware platforms with a common user interface.

Key Benefits: Use of a common development environment saved both cost and time by removing the need to maintain and learn multiple user interfaces.

SITUATION

A&D Company collaborated with Honda and Accurate Technologies, Inc. (ATI) to use the Vision calibration tool in conjunction with and as a user interface to A&D's ADX rapid prototyping platform.

CHALLENGES

The development environments for the mass production ECU and the rapid prototyping ECU evolved independently of one another. Developers of each used a different development environment, each implementing their own program, and each performing ECU measurement and calibration on their own. This resulted in an inefficient use of time by duplication of work and required the customer to use two different tools for the same task of measurement, calibration, and data management.

SUCCESS STRATEGY

As calibration of the OEM ECU via the Vision tool was already possible via the ASAM MCD-1 CCP/ASAM MCD-1 XCP protocol, A&D implemented the same solution on the ADX rapid prototyping platform.

CHALLENGES DURING THE PROJECT

No challenges were experienced during this project. By utilizing the ASAM MCD-1 standard, the project was completed without problems.

BUSINESS BENEFITS

With a common development environment, the customer was able to shorten ECU control algorithm development times with a resulting reduction in overall cost.

“We found that by using the ASAM standard we were able to better cooperate with both A&D Company and the calibration tool suppliers.”

(lead Honda engineer for this project)

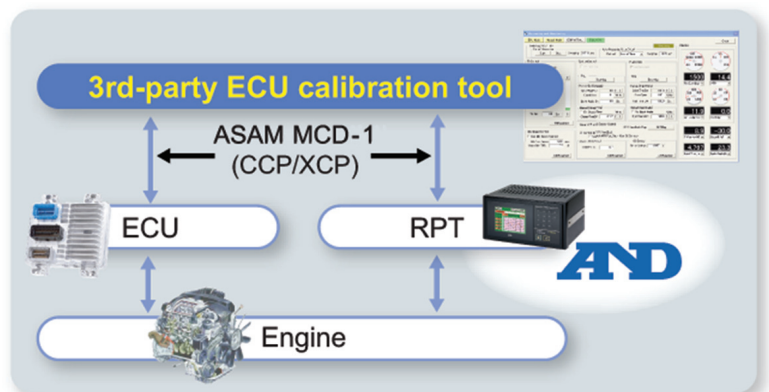


Figure 1: Using XCP to make Rapid Prototyping system look like an ECU to the calibration tool