

AUTOSAR software development and delivery

Dumarey Softronix decided to develop the SW for its Dumarey Electronic Platform in compliance with **AUTOSAR** standard for both Application SW and BSW in order to make it open to **easily include customer-provided or supplier-provided code** in addition to the internally developed code.

For its internal development, a completely new git-based SW toolchain has been set up, including:

- **AUTOSAR** authoring tools for RTE generation
- **Model-Based SW Design** tools for AUTOSAR compliant automatic code generation
- Model-In-the-Loop, Software-in-the Loop and Unit Testing tools
- **Static Code Analysis tool** (including MISRA compliance check)
- **DevOps framework** for Continuous Integration / Continuous Delivery

In addition, an ASPICE-compliant SW development process is being adopted for all different SW engineering phases from SW requirement definition to SW release.

The above-described approach allowed the release of the **first integrated SW package** (developed completely in-house) for the first Dumarey Propulsion Solutions H2-ICE application only 8 months after Dumarey Electronic Platform SW project kick-off.

