

AutomationDesk Connects to DOORS

- **Requirements traceability for seamless development**
- **Test requirement, description, and result all linked**
- **Electronic control unit tests can be run from DOORS**

A special integration solution now connects dSPACE's test software, AutomationDesk, to Telelogic DOORS®, a requirements management tool – so requirements and test specifications can be tracked across tools. Test specifications from DOORS can be transferred to AutomationDesk test projects. All test results are available in DOORS, where they make it easier to track and analyze the development process.

Bridge Between Two Tool Worlds

The traceability of requirements is a key issue in developing software for electronic control units (ECUs). The objectives are to log and record the progress of each project, and to determine whether all the requirements are being met throughout the course of software development. Tools like Telelogic DOORS support the management of any kind of requirement. The specifications for software tests are also frequently

handled with DOORS. For efficient traceability and coverage analysis of test requirements, dSPACE has hooked up AutomationDesk to DOORS, the requirements management software from Telelogic.

Bridged by Connection Server

The link between AutomationDesk and DOORS, enabling the data in the two tool worlds to be synchronized, is the AutomationDesk DOORS Connect & Sync Module. Individual DOORS objects correspond to specific, identically structured elements in AutomationDesk. For example, a document in DOORS can be assigned to a corresponding project in AutomationDesk, and a folder or test sequence in AutomationDesk can be assigned to a test specification in DOORS. If test specifications have the same structure, based on predefined templates, the Connect & Sync Module can convert them into AutomationDesk elements automatically. Users define the rules for mapping the DOORS data to AutomationDesk themselves. Test implementation in AutomationDesk no longer needs to be performed from scratch, as structures and parameters from the DOORS test specification can be used.

Two-Way Exchange

The data and structures of the two tool worlds are synchronized via the Connect & Sync Module, which is also used to exchange parameters. AutomationDesk tests can also be run directly from within DOORS. In the other direction, when test execution is completed AutomationDesk passes the test results (such as passed, failed, or undefined) back to DOORS. Test results from AutomationDesk can be displayed in DOORS and tracked across tools. The link between the two tools means that DOORS always has the current state of the requirements and the associated test results.

▼ *How the link between AutomationDesk and DOORS works.*

