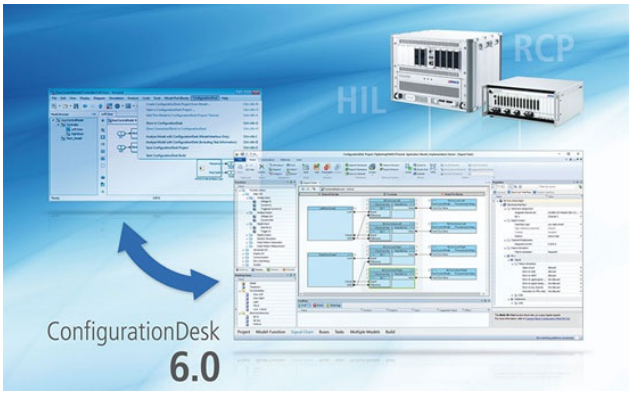
CAN Newsletter Online

HIL AND RAPID PROTOTYPING

Improved interaction with Simulink

Version 6.0 of Dspace's Configuration-Desk features a revised user interface. The software tool is suitable for the company's Scalexio hardware supporting Classical CAN and CAN FD.

The Configuration-Desk is suitable for hardware-in-the-loop (HIL) and rapid prototyping. The version 6.0 provides a revised user interface, which is context-oriented. It guides the user with a central navigation bar and dynamic ribbons. Task-specific view sets show users the precise content and functionalities they need in the associated work step, keeping the number of open windows to a minimum and providing a better overview. The user interface also introduces other enhancements, such as a revised Properties Browser with several functions for filtering and grouping properties.



The Configuration-Desk tool is used in conjunction with the company's Scalexio hardware featuring CAN support (Photo: Dspace)

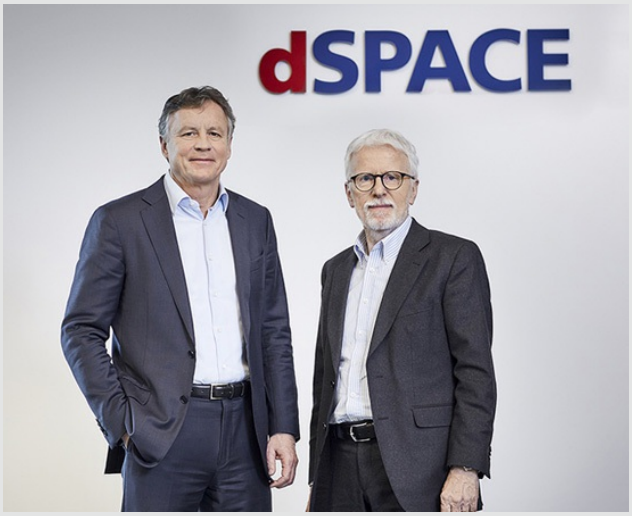
With version 6.0, models from various modeling environments can be connected to the Scalexio hardware via the FMI standard. Simulink models can also be directly connected to the tool. An improved menu in Simulink makes it possible to perform tasks in the tool from within the modeling environment, such as creating projects and starting the build process. Users can conveniently switch between the simulation model and the configuration of the real-time system at all times.

Configuration-Desk is an intuitive, graphical configuration, and implementation tool to be used in conjunction with the Scalexio hardware. The software makes it possible to connect behavior models, e.g., from Simulink with I/O functions, to configure the hardware, and to control the entire process of generating real-time code. Optionally, it is possible to define and to document external devices, such as ECUs and loads, including their signal properties (e.g., descriptions, electrical properties, failure simulation settings, load settings). This also provides different views of the configured system. For example, users can display the signal path between the ECU or load pins and the behavior model. In other view sets, the I/O functionality can be included directly in the model hierarchy and changes to interfaces can be propagated to the connected Simulink model.

Scalexio is a modular real-time system used for rapid control prototyping (RCP) and hardware-in-the-loop testing. In these fields, the hardware facilitates real-time computation of even large and complex models. Aside from the large number of I/O functionalities, the offered hardware supports various communication technologies including Classical CAN and CAN FD. The I/O channels are specified with the above-mentioned tool.

Passing the baton

Martin Goetzeler completed a trainee program and earned a degree in Business Administration before holding a range of positions at Siemens, with managerial positions starting in 1989. After gaining several years of experience abroad as the president or CFO of Osram in several countries, he was appointed chief executive officer of Osram in 2005. Most recently, Martin Goetzeler held the position of CEO at Aixtron for four years, a provider of deposition equipment to the semiconductor industry. "Martin Goetzeler brings all the assets we are looking for in a CEO and lives by the same values, so he and the experienced board of directors can steer Dspace towards a successful future," stated Herbert Hanselmann.
Dr. Herbert Hanselmann will stay on board as a managing director for a transition period, after which Martin Goetzeler will take on full responsibility as the CEO. Dr. Hanselmann will then take on an advisory role. Since the company is to remain a family-operated company, one of Martin Goetzeler's tasks will be to prepare the second generation of the Hanselmann family for their work in the company.



Martin Goetzeler (left) and Dr. Herbert Hanselmann (Photo: Dspace)

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