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Press Release

ETAS Rolls Out New Solutions for Simulink® Users

- INTECRIO-RLINK for prototyping in real-world environments
- INCA-VLINK for measuring and calibrating on the Windows platform
- Many more custom-made solutions for Simulink® users

Over the past year, ETAS has augmented its numerous solutions for Simulink® by adding the prototyping blockset termed ETAS INTECRIO-RLINK, as well as the ETAS INCA-VLINK blockset for measuring and calibrating tasks on a Windows PC.

These solutions establish seamless connections between the system modeling software from MathWorks and the INCA software products from ETAS, designed for measuring and calibration applications.

INTECRIO-RLINK provides effective prototyping of Simulink® models in real-world environments. It supports – besides the ETAS hardware families ES900 and ES1000 – also the PC-based real-time simulation target RTPRO-PC. Proven bypass technology can be deployed to connect prototypical control models with the physical ECU hardware. In this way, users are able to model new functions in Simulink® for immediate in-vehicle validation and verification in concert with the entire electronic control system. Despite being able to make quick work of a heretofore protracted procedure, users always remain in their familiar workspace: it's Simulink® for function modeling, and ETAS INCA for measuring and calibrating.

The INCA-VLINK blockset facilitates the calibration and validation of Simulink® models running as executable programs on off-the-shelf Windows computers. With a single mouse click, it generates virtual prototypes from Simulink® function models. The required function stimuli can be supplied by measurement data obtained from vehicle or test bench. Once generated, the executable prototypes can be easily exchanged with development partners and executed independently of Simulink® and the function model.

The two new solutions augment the ETAS portfolio for Simulink® users. These include, inter alia:

- ETAS INCA-SIP: With this INCA integration packet, developers of Simulink® functions possess an efficient environment for measuring, calibrating, and data recording of simulation runs directly in Simulink®.
- ETAS INTECRIO Integrated Prototyping Environment: Permitting prototyping in virtual and real-world environments, this tool supports the integration of MATLAB®/Simulink® models with ASCET-based models, C code modules, and AUTOSAR software components.
- ETAS EHOOKS: The tool designed for inserting bypass hooks in existing ECU software combines with the Simulink® Integration Package to permit the configuration and automatic generation of ECU hex files with the use of Simulink® models.
- ETAS ASCET: Designed for model-based embedded software development and code generation for safe and efficient production software, this tool family accepts the transformation of Simulink® models and their extension by means of software relevant information.
- ETAS LABCAR: The Hardware-in-the-Loop simulation provides a simple means to integrate Simulink® simulation models for the purpose of mapping the behavioral triad of driver, vehicle, and environment.

- ETAS ASCMO: This tool maps the behavior of complex systems by means of an extremely accurate mathematical model and thereby optimizes their application data. The static or dynamic model can be exported to Simulink® with a single mouse click.

ETAS GmbH

ETAS provides innovative solutions for the development of embedded systems for the automotive industry and other sectors of the embedded industry. As a systems provider, ETAS supplies a multifaceted portfolio that covers the range from integrated tools and tool solutions to engineering services, consulting, training, and support. Security solutions in the area of embedded systems are offered by the ETAS subsidiary ESCRYPT. Established in 1994, ETAS GmbH is a 100-percent subsidiary of the Bosch Group, with international subsidiaries and sales offices in 13 countries in Europe, North and South America, and Asia.

For more information, please visit www.etas.com

Graphics:

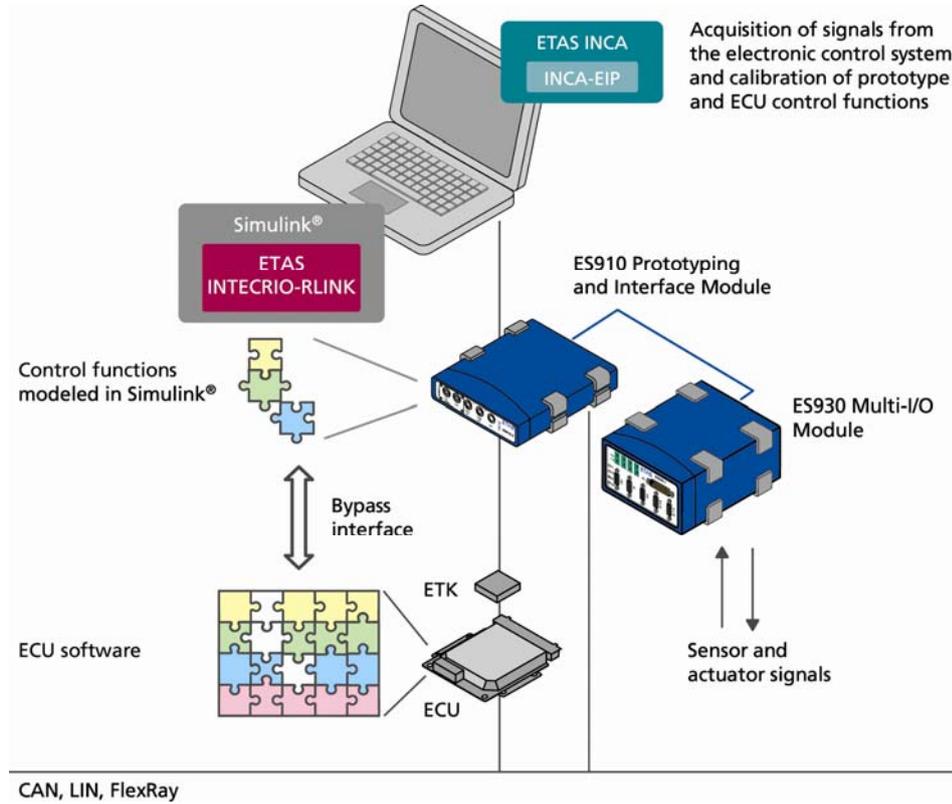


Figure 1:
Example of an ETAS prototyping system.

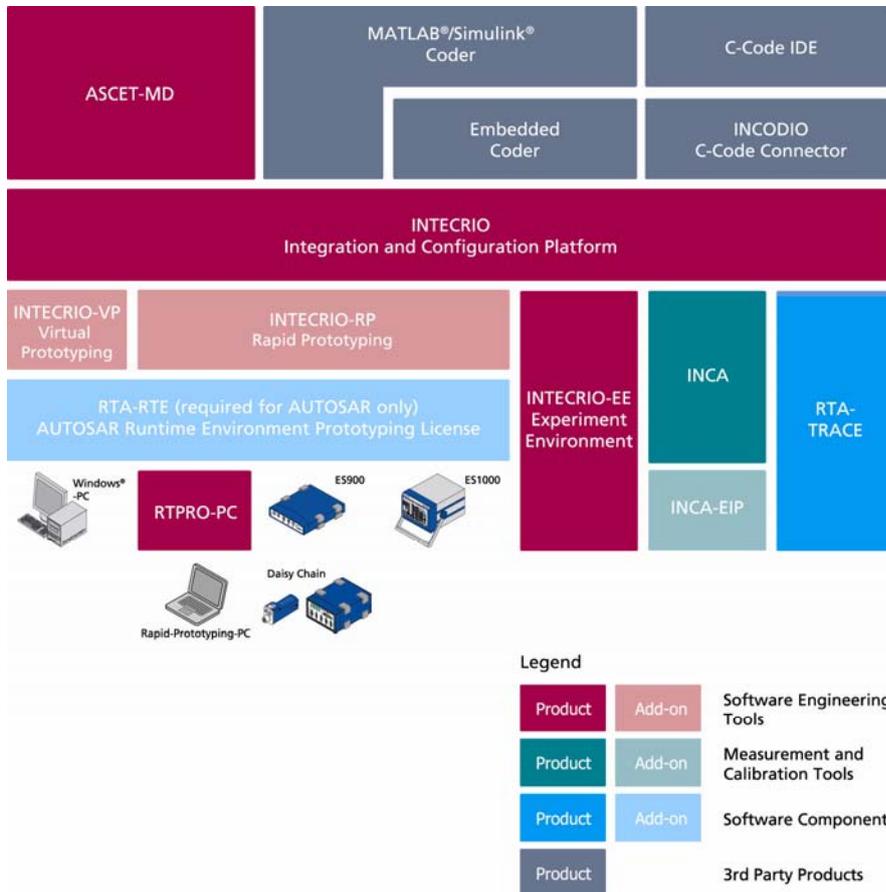


Figure 2:

The integration platform ETAS INTECRIO facilitates the comprehensive and reliable prototyping of electronic vehicle functions originating from a great variety of sources. This is also a benefit to Simulink® users.



Figure 3:

Using INCA-VLINK, control functions modeled in Simulink® can be validated and calibrated offline with INCA on the PC.