

ETAS GmbH

Borsigstraße 14
70469 Stuttgart, Germany
Phone +49 711 3423-2240Press and Public Relations:
Anja Krahlanja.krahl@etas.com
www.etas.com

Press Release

New interactive documentation makes ECU calibration easier

- ETAS' new interactive EHANDBOOK documentation tool helps calibration engineers get to grips with ECU software
- EHANDBOOK transfers ASCET, Simulink[®], or C code development data to an intelligent, interactive handbook
- Direct data transfer from documentation to calibration tools saves time

Stuttgart, June 16, 2015 – As engineers develop ECU functions using ASCET or with Simulink[®] models and then translate them into software, their expertise soon adds up. Documentation can quickly fill up 10,000-20,000 pages—and until now, calibration engineers have had to cope with all this in PDF format. They often have to refer to this documented knowledge during the process of calibration, when they are fine-tuning the functions. But leafing through enormous PDF files is a tiresome business that eats up valuable time—heaping more pressure on highly qualified calibration engineers in the already very limited time available to them in the test vehicle.

Now ETAS has developed EHANDBOOK—an interactive tool that offers intelligent search functions in place of tedious manual searches and automatically generates interactive graphics and models from ASCET, Simulink[®], or C code. These graphical representations give calibration engineers an immediate overview of the ECU's functions and signal flows. It breathes life into all the knowledge

hidden in those thousands of pages, giving everyone involved effective access to the information.

EHANDBOOK makes knowledge transparent and optimizes workflow

The EHANDBOOK solution is made up of three components. Flexible transfer of source data into documentation with interactive graphics and models is handled by the EHANDBOOK CONTAINER-BUILD tool. ETAS offers services to support this where necessary. The resulting handbook is then stored in EHANDBOOK CONTAINER, putting the knowledge generated by development work just a mouse click away for calibration engineers. This is where the third component comes in: EHANDBOOK NAVIGATOR.

The NAVIGATOR is the physical interactive tool that helps calibration engineers quickly and efficiently find their way around all the documentation that function developers generate. Alongside a search function, there is the option to get an overview of the system through graphics and models or to zoom in on the details. In addition, the tool can connect to calibration tools such as ETAS INCA. Users who set up experiments in INCA can use the NAVIGATOR to locate relevant measurement and calibration variables in the documentation and automatically transfer them to their experiment.

A navigation system beats poring over paper maps

“Switching from PDF documentation to EHANDBOOK is just like making the move from a road atlas to a navigation system,” says ETAS product manager Dr. Patrick Frey. Instead of having to laboriously follow, say, the signal flows in a particular model over several pages of PDF documentation, this tool lets developers zoom seamlessly in and out of whatever models they choose. This graphical representation of information makes signal flows much easier to understand. If necessary, users can generate what is known as “function wallpaper” with just one click, giving them a single view that seamlessly stitches together the relevant excerpts of a model.

EHANDBOOK helps calibration engineers quickly get to grips with information and work efficiently, offering them a deep understanding of the ECU functions their colleagues in function development have produced in their models. This opportunity for interactive documentation serves both to improve quality in the development process and share knowledge throughout the organization. But

above all it saves valuable time, enabling calibration engineers to concentrate on their actual job—calibrating ECU functions—instead of wasting time looking for information and measurement data.

Pilot customer Bosch puts EHANDBOOK to productive use

In refining its interactive EHANDBOOK documentation solution, ETAS is working closely with pilot customer Robert Bosch GmbH, where the tool is already being rolled out internally for ECU projects. Upon request, Bosch can also provide its customers with interactive handbooks for their ECU software. What's more, a number of automakers have already evaluated the new ETAS solution and recognize how useful it is. They too are now using EHANDBOOK—and it is helping them optimize knowledge transfer in software development.

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 14 countries in Europe, North and South America, and Asia.

Further information is available at www.etas.com



ETAS EHANDBOOK makes calibration engineers' lives a whole lot easier