Press Release

ASAP Group presents innovative approaches in exterior lighting function validation at DVN workshop in Munich

Increasing complexity of exterior lighting functions places new demands on validation / New TestSphere framework increases efficiency, traceability and quality in the test process

Ingolstadt, February 24, 2025. **The ASAP Group presented new approaches in exterior light functional validation at the DVN workshop on developments in the field of automotive lightning from February 19 to 20, 2025 in Munich. The focus of the ASAP Group's trade fair appearance was the innovative end-to-end validation framework TestSphere developed by ASAP. Christina Riebl, Project Lead in the Software | Virtual Validation division at the ASAP Group, explained this in her specialist lecture "How to Validate Exterior Lights in an Evolving Automotive Ecosystem" at Motorworld Munich. TestSphere sets new standards in terms of user-friendliness and traceability in the test process.**

The validation framework is characterized by automated test implementation, a standardized test design for different test systems and an improvement in the quality of the test process. For example, data and information from the requirement to the test report are harmonized and visualized centrally in the tool-independent TestSphere Editor. This connects via bridges with the respective ALM tool, with the system architecture tool and with the customer's test system. This simplifies the work of the testers, who can continue to use the tools they are familiar with, and reduces costs in the test process.

The high level of user-friendliness and traceability in the test process provided by TestSphere is of great importance in view of new challenges for safeguarding due to the increasing complexity and networking of exterior lighting functions. "Safety-relevant functions for Level 2 and 3 autonomous driving in particular require innovative test approaches. Traditional methods are no longer sufficient to meet the high requirements for validation and to cover all variables on the test benches," says Niklaas Krause, Manager Electrics/Electronics | Validation at the ASAP Group.

With this in mind, ASAP has also developed its own AI solution that significantly increases the efficiency of software development for ADAS/AD functions. ASAP GenAI, which can be integrated into TestSphere, accelerates the underlying keyword-driven testing, for example. This is because the ASAP GenAI solution abstracts the corresponding keywords from the requirements, from which test cases are generated and listed, in a fraction of the time previously required.

"The feedback at the DVN workshop on our TestSphere framework and the GenAI solution developed by ASAP was very positive. We see this as confirmation that these tools enable us to meet the current challenges in the validation of complex software functions and highly integrated control units. It also confirms that the ASAP Group is further expanding its expertise in the field of test automation and GenAI for the validation of exterior lighting functions, for example, especially in cooperation with our parent company HCLTech," says Tim Bayer, Director Division Electrics/Electronics at the ASAP Group.

Image material:

Caption: The ASAP Group presented the TestSphere framework at the DVN workshop.

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The ASAP Group
The ASAP Group was founded on January 1, 2010 with a clear focus on future automotive technologies. Today, the development partner to the automotive industry can look back on almost unparalleled growth in automotive engineering: as of January 2025, the Group employed 1,600 people. The ASAP Group, a subsidiary of HCLTech, offers comprehensive development services with a focus on megatrends such as e-mobility, autonomous driving and connectivity. With its five service segments – Electrics/Electronics, Software, Consulting & Service, Test & Validation and Vehicle Engineering – ASAP's strategic development focus is on future-oriented fields of technology.