

Media contact

Muriel Guilbert

muriel.guilbert@agileo.com

Agileo Automation Launches Agil'EDA to Accelerate SEMI EDA Adoption for Semiconductor Equipment OEMs

High-performance connectivity software delivers structured, high-volume equipment data required by tier-one fabs and Advanced Packaging facilities ahead of the expected mid-2026 SEMI standards update

POITIERS, March 25, 2026 – [Agileo Automation](#), a leading provider of control and connectivity solutions for global semiconductor manufacturing, today unveils [Agil'EDA](#), a new software solution implementing Equipment Data Acquisition (EDA), a set of SEMI standards also known as Interface A, to enable semiconductor equipment manufacturers to meet the evolving high-performance connectivity requirements of tier-one fabs and Advanced Packaging facilities.

As semiconductor manufacturing moves towards higher levels of automation and data-driven optimization, fab owners increasingly require EDA alongside traditional SECS/GEM connectivity from semiconductor OEMs for their production tools. Agil'EDA addresses this by separating the control flow from the data flow, ensuring that structured, high-frequency data collection does not interfere with critical equipment operations.

Designed for long-term deployment, Agil'EDA fully supports the widely used EDA Freeze 2 (SOAP/XML) and is architected for the transition to Freeze 3 (gRPC/protocol buffers). This next-generation standard offers significantly higher data throughput and reduced latency. Agileo has already successfully tested and validated its EDA Freeze 3 implementation at SEMI's North America Standards Fall Meetings in November 2024 in Milpitas, California. SEMI's EDA Freeze 3 standards suite is expected to be released mid-2026.

Complementing the SECS/GEM standards used to control equipment behavior, Agil'EDA incorporates robust cybersecurity features such as authentication and encrypted communications. The product is available as a stand-alone solution for any existing equipment software using a platform-independent gRPC application programming interface (API) to communicate with it or as a pre-integrated component within Agileo's [A²ECF-SEMI framework](#). When used with [Agil'GEM](#) and [Agil'GEM300](#), it provides a comprehensive connectivity solution that significantly reduces time to market for OEMs.

"With the growing demand for data to improve yield in tier-one fabs, as well as in Advanced packaging and 3D integration, EDA is no longer optional. It is becoming a mandatory requirement for equipment entering the world's most advanced fabs," explains [Marc Engel](#), chief executive officer of Agileo Automation. "The key value we deliver for OEMs is a fast and easy adoption path for a seamless EDA architecture that delivers compliant production machines to global fab customers.

By providing a future-proof architecture ready for Freeze 3, which will significantly increase performance, we address OEMs' current needs while preparing them for the evolving requirements of semiconductor manufacturing, including AI-driven process control."

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About Agileo Automation

Agileo Automation is a trusted partner for equipment manufacturers, helping them build smarter, automated, and more connected machines that integrate seamlessly into advanced semiconductor fabs. Founded in 2010 in Poitiers, France, Agileo helps OEMs with control, communication, data acquisition, and testing across their tools through proven software and expert support. Its flagship [A²ECF-SEMI](#) framework provides a solid foundation for developing equipment controllers fully aligned with SEMI SECS/GEM, GEM300, and [EDA](#) standards. As an active member of [SEMI](#) and the [OPC Foundation](#), Agileo Automation contributes directly to shaping the standards that drive manufacturing. For more information, please visit our [website](#) or follow us on [LinkedIn](#).