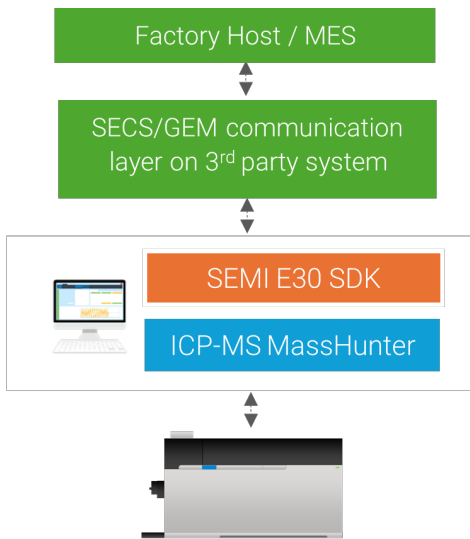




Introducing the SEMI E30 SDK for ICP-MS Integration

Enabling GEM-Based Communication in Semiconductor Manufacturing



SDK provides the interface for GEM communication. If communication methods according to the SECS protocol are implemented in the communication layer, a system according to SECS/GEM can be built.

Contact Us

To learn how the SEMI E30 SDK can support your ICP-MS integration needs, please contact your local Agilent office/ representative.

What is SEMI E30 (GEM)?

The SEMI E30 standard, also known as the Generic Equipment Model (GEM), defines a standardized interface for communication between semiconductor manufacturing equipment and host systems. Built on the SECS-II protocol (SEMI E5), GEM enables:

- Equipment state modeling
- Remote control and monitoring
- Event and alarm reporting
- Recipe management and trace data collection

This standard ensures consistent, reliable, and scalable integration of equipment into factory automation systems.

About the SEMI E30 SDK

The SEMI E30 SDK enables Agilent ICP-MS instruments to support GEM-based communication, allowing them to be integrated into semiconductor manufacturing environments that follow SEMI standards.

With this SDK, your system integrators can develop host applications or middleware that communicate with ICP-MS systems using GEM-compliant messages and behaviours.

GEM Fundamental	What SDK provides
State Models	N/A (Not ICP-MS specific)
Equipment Processing States	Reflects instrument states (e.g., Analysis mode)
Host-Initiated Control (S1, F13/14)	SDK supports MDLN (Model Name) and SOFTREV (Software Revision)
Event Notification	Instrument events such as hardware errors
On-line Identification	MDLN and SOFTREV provided by SDK
Error Messages	N/A (Not ICP-MS specific)
Documentation	SDK includes limited documentation
Operator-Initiated Control	N/A (Not ICP-MS specific)

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