

SEMI SMT-ELS

The Standards Suite Making SMT Assembly Lines Smarter

SEMI SMT-ELS is the standards suite for intelligent SMT assembly lines. It features a robust data communication capability which makes assembly lines smarter.

SMT-ELS features an advanced, general purpose machine-to-machine (M2M) interface for equipment (TCP/IP), minimizing set up time and design changes.

SEMI International Standards have supported M2M communication for electronics manufacturing lines for many years. The SEMI Standards development process is an open, consensus-based process.

BENEFITS OF SEMI SMT-ELS

SEMI SMT-ELS provides many benefits to the SMT assembly lines, including:

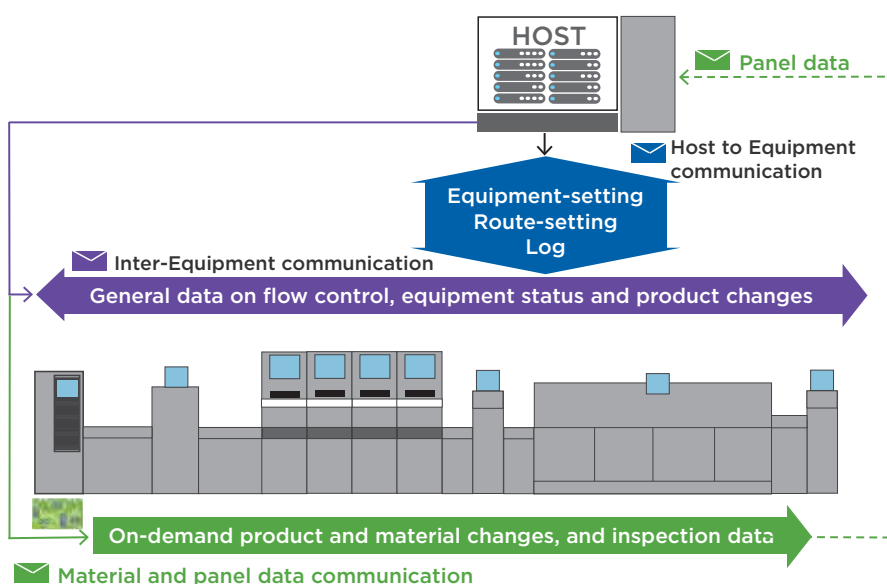
- Low-overhead communication system for less-sophisticated equipment
- Shortens integration times
- Works with existing PLC-based portions of line
- Provides for WiFi connectivity
- TCP-IP based for low-cost integration
- High level connectivity and control capabilities
- Highly-extendable for future requirements
- Allows for creation of digital thread
- Vertical communications protocol agnostic

SEMI STANDARDS

SEMI SMT-ELS consists of the following SEMI Standards:

- SEMI A1** Specification for Production Equipment Smart Connection Interface (PESCI)
- SEMI A1.1** Specification for TCP/IP Interface for PESCI
- SEMI A2** Specification for Surface Mount Assembler Smart Hookup (SMASH)
- SEMI A3** Specification for PCB Equipment Communication Interfaces (PCBECI)

SEMI SMT-ELS standards are available now as a single standard or included in a SEMIViews license.



SMT Applications Host / M2M Interfaces
SEMI A2 SMASH
SEMI A1 PESCI
SEMI A1.1 TCP/IP Interface for PESCI
TCP/IP

Published Standards are available individually, or with SEMIViews. Find more information at www.semi.org/standards or ask SEMI Staff in your location.

- Industry network-free protocol
- Use of SMEA Generation Equipment with Virtual SMASH Controller
- PLC Conformance