

Interoperability Testing Information

Feb. 7, 2020

SEMI FlowManufacturing Forum

Since SEMI is not in a position to test or guarantee interoperability among or compliance of the implemented products of SEMI Standards, those interoperability or compliance should be maintained collaboratively among the members for efficient implementations of the SEMI Standards.

FM Forum, as a community under SEMI, is not in a position to test or guarantee compatibility or compliance but provides the opportunities for interoperability testing of SEMI A1, SEMI A1.1, and SEMI SMT-ELS Standards suite to share the correct interpretation and implementation know-how of the Standards suite.

Testing with two or more other participants is strongly recommended to make the testing more reliable. (In the sense similar with the method making high-precision surface plates used in lithography equipment etc., which prepares three granite plates and grinds two plates each other in different combinations many times using abrasive to guarantee highly precise flatness by avoiding matched concave-convex pairs.)

FM Forum also provides the list of participants appropriately completed the testing with two or more other participants in principle.

Local interoperability testing with two or more listed participants is also recommended for expansion of the testing chain.

For participation to planned testing, or new testing opportunity request:

- Members of FM Forum should contact the leaders of the responsible Working Group (WG) under FM Forum.
- Non-members of FM Forum should contact SEMI staff.

Freeze Version of SEMI SMT-ELS:

- Freeze Version 0 (FV 0) consists of SEMI A2-1019, SEMI A1-1019, and SEMI A1.1-1019.
- Please refer to the Freeze Version (FV) information on the SEMI SMT-ELS website for the latest and more information.

Equipment Level Testing History (Hosted by SMT WG)

| Date | Freeze Version | Completed Participants | Note |
|---------------|----------------|-------------------------------------|------------------------------|
| Apr. 15, 2019 | FV 0 to be | Yamaha Motor, FUJI, Panasonic, Juki | Except for vertical messages |
| May 14, 2019 | FV 0 to be | Yamaha Motor, FUJI, Panasonic, Juki | Same as above |
| Oct. 9, 2019 | FV 0 to be | Yamaha Motor, FUJI, Panasonic, Juki | Same as above |

A2/A1/A1.1 Package Level Testing History (Hosted by A1 WG)

| Date | Doc. - Version | Completed Participants | Note |
|--------------|---|------------------------------------|--|
| Apr. 2, 2019 | A2-1019 to be A1-1019 to be A1.1-1019 to be | SIEMENS, Yokogawa Solution Service | For SEMI SMT-ELS FV 0 (Except for vertical messages) |

A1/A1.1 Package Level Testing History (Hosted by A1 WG)

| Date | Doc. - Version | Completed Participants | Note |
|---------------|----------------------------------|---|--|
| Feb. 14, 2019 | A1-1019 to be A1.1-1019 to be | SIEMENS, Yokogawa Solution Service, Mitsubishi | Limited scenarios required for SEMI SMT-ELS FV 0 |
| Apr. 2, 2019 | A1-1019 to be A1.1-1019 to be | SIEMENS, Yokogawa Solution Service | Same as above |
| Aug. 7, 2019 | A1-1019 to be A1.1-1019 to be | SIEMENS, Yokogawa Solution Service, Omron | Same as above |
| Oct. 9, 2019 | A1-1019 to be A1.1-1019 to be | No new completer | Same as above |