

SEMI E178-0120

GUIDE FOR EDA FREEZE VERSION

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1 Purpose

1.1 This Standard provides the guide for combining versions of the SEMI EDA Standards for the successful EDA implementation.

2 Scope

2.1 This Standard applies to the semiconductor manufacturing equipment applying specifications defined in the EDA Standards which apply Web Service for the message exchange.

NOTICE: SEMI Standards and Safety Guidelines do not purport to address all safety issues associated with their use. It is the responsibility of the users of the Documents to establish appropriate safety and health practices, and determine the applicability of regulatory or other limitations prior to use.

3 Referenced Standards and Documents

3.1 SEMI Standards and Safety Guidelines

SEMI E120 — Specification for the Common Equipment Model (CEM)

SEMI E120.1 — XML Schema for the Common Equipment Model (CEM)

SEMI E125 — Specification for Equipment Self Description (EqSD)

SEMI E125.1 — Specification for SOAP Binding for Equipment Self Description (EqSD)

SEMI E128 — Specification for XML Message Structures

SEMI E132 — Specification for Equipment Client Authentication and Authorization

SEMI E132.1 — Specification for SOAP Binding for Equipment Client Authentication and Authorization (ECA)

SEMI E134 — Specification for Data Collection Management

SEMI E134.1 — Specification for SOAP Binding of Data Collection Management (DCM)

SEMI E138 — XML Semiconductor Common Components

SEMI E145 — Classification for Measurement Unit Symbols in XML

3.2 Other Documents

3.2.1 International SEMATECH Manufacturing Initiative Technology Transfer #06034748D-ENG — Equipment Data Acquisition (EDA) Guidance

3.2.2 International SEMATECH Manufacturing Initiative Technology Transfer #10115124A-ENG — Equipment Data Acquisition (EDA) Version 0710 Guidance

NOTICE: Unless otherwise indicated, all documents cited shall be the latest published versions.

4 Terminology

4.1 Abbreviations and Acronyms

4.1.1 *EDA* — Equipment Data Acquisition

4.1.2 *IDL* — Interface Definition Language

4.1.3 *SOAP* — Simple Object Access Protocol

4.1.4 WSDL — Web Service Definition Language

4.2 Definitions

4.2.1 *Complementary File* — an official part of the Standard with which it is associated and is balloted and approved with that Document. Schema and WSDL are defined as the Complementary File for each of the EDA Standards.

4.2.2 *EDA Standards* — a suite of SEMI Standards that defines specifications for the purpose of the Equipment Data Acquisition.

4.2.3 *Interface Definition Language* — computer language to define interface among software components.

4.2.4 *Publication Date Code* — a field in the Standard Designation expressing the date of publication, in the form of “mmyy”, where “mm” expresses the month, and “yy” expresses the year.

4.2.5 *schema or XML Schema* — a set of data expressing shared vocabularies that allows computers to carry out rules made by people. It provides a means for defining the structure, content and semantics of XML documents.

4.2.6 *Standard Designation* — character string code to identify the Standard, that consists of category, number, publication date, and document status.

4.2.7 *Standard Version, or version* — publication version of a SEMI Standard Document identified by the Publication Date Code in the Standard Designation.

NOTE 1: For the example of Standard Designation and Publication Date Code, E125-0414 represents the Specification for Equipment Self Description (EqSD) published in April (04), 2014 (14).

5 EDA Freeze Version

5.1 Definition

5.1.1 EDA Freeze Version is a combination of versions of EDA Standards to be applied together to substantiate successful implementation of the data collection.

5.1.2 SEMI Standards in the combination are SEMI E120, SEMI E125, SEMI E128, SEMI E132, SEMI E134, and SEMI E138.

5.2 Structure of the EDA Standards

5.2.1 Each of the EDA Standards consists of a Primary Standard, Subordinate Standards and Complementary Files.

5.2.1.1 The Main Standard defines the concept and capabilities for the EDA.

5.2.1.2 The Subordinate Standard defines the protocol and details of the messages for the EDA.

5.2.1.3 The Complementary Files define the interface, in IDL, that are defined in the Primary and/or Subordinate Standards.

6 Identified Freeze Versions

6.1 In this section, EDA Freeze Versions that have been identified in the field are described.

6.2 EDA Freeze Version 1

6.2.1 The EDA Freeze Version 1 is the first version released in November 2005, that is also referred as “1105 Freeze Version”.

6.2.2 Table 1 summarizes EDA Standard Versions for the Freeze Version 1.

Table 1 EDA Freeze Version 1 Standard Documents

<i>Main Standard Version</i>	<i>Subordinate Standard Version</i>
SEMI E120-1104	SEMI E120.1-1104
SEMI E125-1105	SEMI E125.1-1105
SEMI E132-1105	SEMI E132.1-1105