

# EDA Workshop

EDA Working Group under the Information and Control Committee (Japan TC Chapter) in SEMI Standard is holding EDA Workshop in SEMICON Japan 2018.

The purpose of this workshop is to reconfirm the contents of the SEMI standard that defines specifications for data collection of semiconductor manufacturing equipment (i.e., EDA specifications) and to discuss it.

In the workshop, we will discuss below.

- Outlines of the EDA specifications and the technical backgrounds
- Questions and issues on the EDA Specifications
- Answer or consideration of the questions/issues

This is an open forum that welcomes whoever interested in the EDA Specifications.

Date: 14:00-17:00, Wednesday, December 12, 2018

Venue: Conference room 607, Tokyo Big Sight, Tokyo, Japan

Produced by: EDA Working Group, Information & Control Committee

Program Chairs:

Takashi Nakagawa      Yokogawa Solution Service Corporation  
Mitch Sakamoto        ZAMA Consulting

Guest Speakers

Alan Weber              Cimatrix Inc.  
Albert Fuchigami      The PEER Group Inc.

Registration: from the website

[https://forms.office.com/Pages/ResponsePage.aspx?id=3QuozL10F0-Obe7NC6xaArspDja\\_edVNo1ilwa97hZdUNkdTVzdNTjcyVks4MUcxWjdWTjlxSk5DSi4u](https://forms.office.com/Pages/ResponsePage.aspx?id=3QuozL10F0-Obe7NC6xaArspDja_edVNo1ilwa97hZdUNkdTVzdNTjcyVks4MUcxWjdWTjlxSk5DSi4u)

Fee: Free

This workshop will be held as part of the SEMI Standards activities. So, in order to participate in this workshop, you will need to register as a program member of SEMI Standards. The SEMI Standards program membership can be registered from the following website. Everyone can register for free. <http://www.semi.org/en/standards/P041367>

## NOTE

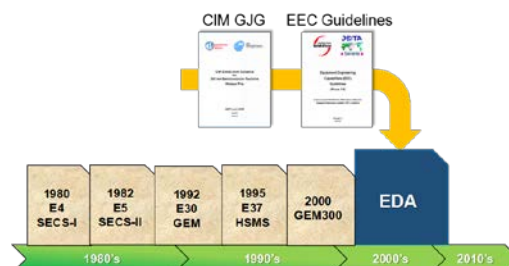
- EDA represents Equipment Data Acquisition.

- EDA Working Group

It is a working group established to study and discuss EDA specifications under SEMI Standards Japan Information & Control Committee. This working group is discussing EDA related standards already published.

- Background of EDA

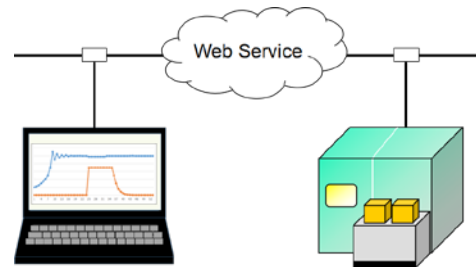
In response to the request of the device manufacturers, the first edition of EDA Standards was issued around 2000 to 2005, and the second edition was issued by 2011. As shown in the figure on the right, the EDA standard has the background of information and control model built with the standard developed then.



- SEMI Standards for EDA Specifications

	Security	Data Collection	Description of Data		
Function	E132 Client Authentication and Authorization (ECA)	E134 Data Collection Management (DCM)	E120 Common Equipment Model (CEM)	E125 Equipment Self Description (EqSD)	E164 Common Metadata
Protocol	E132.1 SOAP Binding for ECA	E134.1 SOAP Binding for DCM	E120.1 XML Schema for CEM	E125.1 SOAP Binding for EqSD	
Reference	E128 XML Message Structure E138 XML Common Component E145 Measurement Unit in XML				

The difference between the EDA standards and the previous ones is that it is applying the web service to collect data from the equipment. Today, web services are indispensable technology for information communication on the Internet. Even for semiconductor manufacturing equipment, capabilities defined by EDA standards are being deployed in the actual data collection, expecting new applications can be made possible by web services.



- Reconfirmation of EDA Standards

EDA standards have not been reviewed since the publication of the second edition in 2011. In that status today, we are seeing some questions in the specifications. For example, it is questionable about the technology applied to the authentication of clients collecting data. There seems to be various options in the technology of client authentication in web service. Under such circumstances, what is currently written in the EDA Standard is appropriate in the real environment? In different information security environments, you may be applying different client certifications. Also, it might be expected that various questions like the above would emerge if we have reviewed the standards.

- EDA Working Group Now

SEMI Standards reach consensus by the process of sharing problems and solutions in the committee. The same process is also required for getting answers to questions about the Standards.



In consideration of the above, a working group where people can discuss questions or issues about EDA Standards is needed, and the EDA Working Group was proposed and approved at the Information & Control Committee Japan Chapter meeting held on April 21, 2017.

The EDA Working Group is now discussing the EDA Standards, to share the knowledge of problems and the solutions. The working group may propose an improvement of the EDA Standards in the future.