

SEMI E53.1-0704

SECS-II SUPPORT FOR EVENT REPORTING STANDARD

This Standard was technically approved by the Information & Control Global Technical Committee. This edition was approved for publication by the global Audits and Reviews Subcommittee on April 30, 2004. Available at www.semi.org in July 2004; originally published December 1996.

NOTICE: This Standard or Safety Guideline has an Inactive Status because the conditions to maintain Current Status have not been met. Inactive Standards or Safety Guidelines are available from SEMI and continue to be valid for use.

1 Purpose

1.1 This Document maps the services and data of its Parent Document, SEMI E53, to SECS-II streams and functions and data definitions.

2 Scope

2.1 This is the standard way to implement the Event Reporting, which provides event-based reporting using the SECS-II message format.

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 E5 — SEMI Equipment Communications Standard 2 Message Content (SECS-II)

SEMI E39 — Object Services Standard: Concepts, Behavior, and Services

SEMI E39.1 — SECS-II Protocol for Object Services Standard (OSS)

SEMI E53 — Event Reporting

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

4 Terminology

4.1 None.

5 Mapping of Event Reporting Messages

Table 1 Event Messages Mapping

Service Message Name	Stream, Function	SECS-II Name
Event Report Send	S6F11,F12,F13,F14	Event Report Send/Acknowledge Annotated Event Report Send/Acknowledge
Event Report Request	S6F15,F16	Event Report Request/Data
Data Report Request	S6F19,F20	Individual Report Request/Data
Collection Event Link Request	S17F9,F10	Collection Event Link Request/Acknowledge
Collection Event Unlink Request	S17F11,F12	Collection Event Unlink Request/Acknowledge
Data Report Create	S17F1,F2	Data Report Create Request/Acknowledge
Data Report Delete Request	S17F3,F4	Data Report Delete Request/Acknowledge
Trace Create Request	S17F5,F6	Trace Create Request/Acknowledge
Trace Delete Request	S17F7,F8	Trace Delete Request/Acknowledge
Trace Report Send	S6F27,F28	Trace Report Send/ Acknowledge
Trace Reset Request	S17F13,F14	Trace Report Reset Request/Acknowledge

<i>Service Message Name</i>	<i>Stream, Function</i>	<i>SECS-II Name</i>
Trace Report Request	S6F29,F30	Trace Report Request/Data
Create Object	S14F9,F10	Create Object Request/Acknowledge (SEMI E39.1)
Delete Object	S14F11,F12	Delete Object Request/Acknowledge (SEMI E39.1)

6 Event Parameters Mapping

Table 2 Event Service Parameter Mapping

<i>Parameter</i>	<i>SECS-II Data Item or Object Attribute</i>
ErrorCode	ERRORCODE
ErrorText	ERRTEXT
ReportID	RPTID
DataSrcSpec	DATASRC
CollEventID	CEID
EvtSrcSpec	EVNTSRC
Enabled	CEED
(list of) AttrName	(list of) VID
ReportChangeOnly	RPTOC
TraceID	TRID
SamplePeriod	TRSPER
TotalSamples	TOTSMP
GroupSize	REPGSZ
StartEventID	CEID
StopEventID	CEID
AutoDelete	TRAUTOD

7 Implementation Details

7.1 Many of the messages of the Event Reporting Standard are implemented with currently defined SECS-II messages. Certain restrictions must be applied to their usage. These restrictions are specified in this section.

7.2 To be OSS-compliant, the following data items must use the format 20 specification:

- RPTID
- CEID
- TRID
- VID

7.2.1 The format of the ASCII strings shall conform to the Object identifier specifications in the Object Services Standards, Documents SEMI E39 and SEMI E39.1.

7.3 Each Data Report sample, whether stand alone or as part of an Event or Trace report, will report **TIMESTAMP** as the first item in its list of report variables and/or object attributes. This means for reports defined by the service user, the user should define **TIMESTAMP** as the first VID in the report definition. Further, all of the service provider's predefined reports shall deliver the value of **TIMESTAMP** in the first V.

7.4 Several capabilities of the Event Reporting Standard are accessed through the Object Services Standard. When an instance of a report (Report, Event, or Trace) object has been created, then its attributes can be read and written using the Object Service's GetAttr and SetAttr messages.