



Information & Control NA TC Chapter Meeting Summary and Minutes

NA Spring Meetings

Wednesday, April 5, 2023

9:00 AM–3:00 PM (Pacific Time)

TC Chapter Announcements

Next TC Chapter Meeting

Thursday, July 13, 2023

9:00-3:00 PM (Pacific Time)

SEMICON West

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: James Moyne (Applied Materials / University of Michigan), Brian Rubow (Cimetrix), Jack Ghiselli (Ghiselli Consulting)

SEMI Staff: Michelle Sun

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Applied Materials, Inc. / University of Michigan	<i>Moyne</i>	<i>James</i>	Hitachi High-Tech Corporation	<i>Yamaki</i>	<i>Takuma</i>
Arlington Laboratory	<i>Judd</i>	<i>Daniel</i>	Intel Corporation	<i>Maloney</i>	<i>Chris</i>
Cimetrix Incorporated	<i>Tracey</i>	<i>Tami</i>	Intel Corporation	<i>Viswanath</i>	<i>Shuba</i>
Cimetrix Incorporated	<i>Howard</i>	<i>Richard</i>	Intel Ireland, Ltd	<i>Liong</i>	<i>Michael</i>
Cimetrix Incorporated	<i>Rubow</i>	<i>Brian</i>	Omron Electronics, Inc	<i>Infelise</i>	<i>Nick</i>
Doople	<i>Kim</i>	<i>Hyungsu</i>	PEER Group Inc.	<i>Fuchigami</i>	<i>Albert</i>
Edwards Ltd.	<i>Shelley</i>	<i>Gerald</i>	Samsung	<i>Park</i>	<i>Jaeyong</i>
Ghiselli Consulting	Ghiselli	Jack	SCREEN Semiconductor Solution Co., Ltd.	Nishimura	Takayuki
Hitachi High-Tech Corporation	<i>Toyoshima</i>	<i>Yuko</i>	Tokyo Electron Ltd.	Mashiro	Supika

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
Sensor Bus TF	James Moyne (Applied Materials / University of Michigan)	Dan Judd (Arlington Lab)

Table 3 Committee Structure Changes

<i>Previous WG/TF/SC Name</i>	<i>New WG/TF/SC Name or Status Change</i>
None	

Table 4 Ballot Results

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
6951	Reapproval of SEMI E126-0708 - Specification for Equipment Quality Information Parameters (EQIP)	Passed
6924	New Standard: Specification for Equipment Management of Consumables and Durables	Failed
6925	New Subordinate Standard: Specification for SECS-II Protocol for Equipment Management of Consumables and Durables	Failed
7017	Line Item Revision to SEMI E120.2-0922, Specification for Protocol Buffers for Common Equipment Model (CEM)	
LI-1	Correct issues in SEMI E120.2 Protocol Buffer messages reported by Task Force Members	Passed
LI-2	Fix spelling errors and clarify how .proto files are used.	Passed
7001	Revision to SEMI E125-1022 Specification for Equipment Self Description (EqSD) and SEMI E125.2-1022 Specification for Protocol Buffers for Equipment Self Description (EqSD)	Passed
7002	Revision to SEMI E132-0922 Specification for Equipment Client Authentication and Authorization and SEMI E132.2-0422e Specification for Protocol Buffers for Equipment Client Authentication and Authorization (ECA)	Passed, Ratification Ballot to be Issued
7003	Revision to SEMI E134-1022 Specification for Data Collection Management and SEMI E134.2-1022 Specification for Protocol Buffers of Data Collection Management	Passed
7004	Reapproval of E130-0618, Specification for Prober Specific Equipment Model for 300 mm Environment (PSEM300)	Passed

#1 **Passed** ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.

#2 **Failed** ballots and line items were returned to the originating task forces for re-work and re-balloting or abandoning.

Table 5 Activities Approved by the GCS between meetings of the TC Chapter

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
6924	SNARF	ABFI	New Standard: Specification for Equipment Management of Consumables and Durables
6925	SNARF	ABFI	New Standard: Specification for Equipment Management of Consumables and Durables
7017	SNARF	DDA	Line Item Revision to SEMI E120.2-0922, Specification for Protocol Buffers for Common Equipment Model (CEM)
7001	SNARF	DDA	Revision to SEMI E125-1022 Specification for Equipment Self Description (EqSD) and SEMI E125.2-1022 Specification for Protocol Buffers for Equipment Self Description (EqSD)
7002	SNARF	DDA	Revision to SEMI E132-0922 Specification for Equipment Client Authentication and Authorization and SEMI E132.2-0422e Specification for Protocol Buffers for Equipment Client Authentication and Authorization (ECA)
7003	SNARF	DDA	Revision to SEMI E134-1022 Specification for Data Collection Management and SEMI E134.2-1022 Specification for Protocol Buffers of Data Collection Management
7004	SNARF	GEM300	Reapproval of SEMI E130-0618, Specification for Prober Specific Equipment Model for 300 mm Environment (PSEM300)

Table 6 Authorized Activities

Listing of all revised or new SNARF(s) approved by the Originating TC Chapter.

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
None			

#1 SNARFs and TFOFs are available for review on the SEMI Web site at:

<http://downloads.semi.org/web/wstdsbal.nsf/TFOFSNARF>

**Table 7 Authorized Ballots**

#	When	TF	Details
None			

Table 8 SNARF(s) Granted a One-Year Extension

#	TF	Title	Expiration Date
None			

Table 9 SNARF(s) Abolished

#	TF	Title
None		

Table 10 Standard(s) to receive Inactive Status

Standard Designation	Title
None	

Table 11 New Action Items

Item #	Assigned to	Details
None		

Table 12 Previous Meeting Action Items

Item #	Assigned to	Details
1	Michelle Sun (SEMI)	Confirm Fall and Spring meeting dates - CLOSED
2	Thai Nguyen (SEMI)	Double instances of voter when manual add/self add, and cannot remove someone you've added manually - OPEN
3	Thai Nguyen (SEMI)	Request to IT: Move timer the screen so it doesn't jump during voting - OPEN
4	Michelle Sun (SEMI), James Moyne (AMAT/University of Michigan)	Create procedure for updating E54 series with biased terms. Lots of them have master/slave terms, making it difficult to do all at once. - CLOSED

1 Welcome, Reminders, and Introductions

Jack Ghiselli (Ghiselli Consulting) called the meeting to order at 9:05. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: Required Meeting Elements Nov 2022

2 Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve the minutes with changes proposed

By / 2nd: By: Brian Rubow / Cimatrix Incorporated
Second: Daniel Judd / Arlington Laboratory

Discussion: None

Vote: 12-Y 0-N. Motion passed.

Attachment: NA-IC-TC-Chapter-Minutes-Nov2022

3 Liaison Reports

3.1 Information & Control Japan TC Chapter

Takayuki Nishimura (SCREEN) reported for the Information & Control Japan TC Chapter. Of note:

Last meeting

- Friday, December 16, 2022 in conjunction with SEMICON Japan 2022
- Tokyo Big Sight, Tokyo, Japan + OVTCCM (Hybrid)

Next meeting

- Wednesday, April 19, 2023 9:30AM-12:00 noon [JST]
- SEMI Japan office, Tokyo, Japan +Official Virtual TC Chapter Meeting (Hybrid)

Ballot Results (Cycle 7-2022) 【1/2】

Doc#	Document Title	TC Chapter Action
6770	Line-Item revision to E169-0615 Guide for Equipment Information System Security	
LI-1	Fix "4 Referenced Standards and Documents"	Passed as balloted
LI-2	Delete ISMI from Terminology 5.1.10	Passed as balloted
LI-3	Change Biased Terms to Bias-Free Terms	Passed with editorial changes
6861	Line Item Revision of E99-0317 Specification for Carrier ID Reader/Writer	
LI-1	Fix "4 Referenced Standards and Documents"	Passed as balloted
LI-2	Change Biased Terms to Bias-Free Terms	Passed as balloted
LI-3	Change "must" to correct word	Passed as balloted

Doc#	Document Title	TC Chapter Action
6862	Line Item Revision of SEMI E99.1-0317 SPECIFICATION FOR SECS-I AND SECS-II PROTOCOL FOR CARRIER ID READER/WRITER	
LI-1	Fix "3 Referenced Standards and Documents"	Passed as balloted
LI-2	Change Biased Terms to Bias-Free Terms	Passed as balloted
6920	Line Item Revision to SEMI E171-0916: SPECIFICATION FOR PREDICTIVE CARRIER LOGISTICS(PCL) and SEMI E171.1-0216: SPECIFICATION FOR SECS-II PROTOCOL FOR PREDICTIVE CARRIER LOGISTICS	
LI-1	Improve technical issues found through 5 years review	Passed as balloted
LI-2	To comply with SEMI Regulations/Procedure Manual	Passed as balloted
LI-3	Improve editorial issues	Passed as balloted

Authorized Activities

- Line Item Revision to SEMI E91-1217: SPECIFICATION FOR PROBER SPECIFIC EQUIPMENT MODEL (PSEM)

SEMI SECS GEM/GEM 300 tutorials

- Held in August 2022 and October 2022

Attachment: JA_I&C_Liaison_20221222_v1.2

3.2 Information & Control Korea TC Chapter

Michelle Sun (SEMI) reported for the Information & Control Korea TC Chapter. Of note:

- **Previous Meeting**
 - o February 24, 2023
 - o Coex, Seoul, Korea
- **Next Meeting**
 - o June 2, 2023
 - o Coex, Seoul, Korea
- Advanced Packaging Automation Workshop on April 27
 - o Automation trends in the Semiconductor industry / TBD
 - o Automation for software perspective / Miracom
 - o Automation for hardware perspective / Samsung SDS (Tentative)
 - o Best Practice / JCET
 - o SEMI Packaging related standards update / SEMI
 - o Panel discussion

Attachment: Liaison report_InC_KR__Mar2023

3.3 Information & Control Taiwan TC Chapter

Michelle Sun (SEMI) reported for the Information & Control Taiwan TC Chapter. Of note:

- **Last meeting**
 - o Nov. 30th, 2022. at the SEMI Standards Taiwan 2022 Meetings
 - o Tainan City, Taiwan (Hybrid)
- **Next meeting**
 - o May. 5th, 2022. at the SEMI Standards Taiwan 2023 Meetings
 - o Hsinchu City, Taiwan (Hybrid)
- Authorized Activities
 - o 6938, New Standard: Guide for Equipment Edge Data Governance (EEDG)

Attachment: I&C Taiwan Liaison report_Nov._2022_v2

3.4 Information & Control China TC Chapter

Michelle Sun (SEMI) reported for the Information & Control China TC Chapter. Of note:

- **Last meeting**



- February 7th, 2023, Spring Meeting
- Virtual meeting
- **Next meeting**
 - August 8, 2023
 - Hybrid
- **Authorized Activities**
 - 7018, Line Item Revision to SEMI E87-0921, Specification For Carrier Management (CMS) and E87.1-0921, Specification for SECS-II Protocol for Carrier Management (CMS)

Attachment: China I&C Committee Chapter Liaison Report -v1

3.5 SEMI Staff Report

Michelle Sun (SEMI) gave the SEMI Staff Report. Of note:

SEMI Global 2023 Calendar of Events

- SEMICON Southeast Asia
 - May 23-25
 - Penang, Malaysia
- SEMICON China
 - June 29 – July 1
 - Shanghai, China
- SEMICON West
 - July 11-13
 - San Francisco, CA
- SEMICON Taiwan
 - Sep 6-8, 2023
 - Taipei, Taiwan

Upcoming NA Meetings

- SEMICON West
 - July 10-13, 2023
 - Moscone Center, San Francisco
 - California/USA
- NA Standards Fall Meetings
 - Nov 6-9, 2023 [Tentative]
 - SEMI HQ, Milpitas, California/USA

SEMI Standards discounted link for SEMICON West:

<https://bit.ly/SW23Standards>



SEMI Standards discounted link for SEMICON West:

<https://bit.ly/SW23Standards>

There is no separate code, it is embedded within the link / QR code.

If you are exhibitor, register as you would normally – do not use this link / QR code.



There is no separate code, it is embedded within the link / QR code.

If you are an exhibitor, register as you would normally – do not use this link / QR code.

Critical Dates for SEMI Standards Ballots

2023	Ballot Submission Deadline	Voting Opens	Voting Closes
Cycle 3	March 8	March 22	April 21
Cycle 4	April 19	May 3	June 2
Cycle 5	May 17	May 31	June 30
Cycle 6	July 26	August 9	September 8
Cycle 7	August 30	September 13	October 13
Cycle 8	October 4	October 18	November 17
Cycle 9	November 15	November 29	December 29

Regulations and Procedure Manual Updates

- Regulations (Feb 28, 2023)
 - Provide publication conditions for both Letter Ballot Review to pass procedural review and its Ratification Ballot is accepted.
 - If the Letter Ballot Review fails procedural review, the acceptance for the Ratification Ballot shall be nullified.
 - <https://www.semi.org/sites/semi.org/files/2023-02/Standards%20Regulations%20February%2028%2C%202023.pdf>
- Procedure Manual (Feb 28, 2023)
 - Clarification on Line-Item Ballots are only permitted on revisions to already published identified portions of Standards or Safety Guidelines.
 - Revision of any Subordinate Standard causes the Publication Date Code of the Primary Standard to be considered as reapproved and it shall be given the (Reapproved mmyy) designation.
 - Contents of Background Statement Required for Revision of Subordinate/Primary Standard Letter Ballots.
 - <https://www.semi.org/sites/semi.org/files/2023-02/Procedure%20Manual%20February%2028%2C%202023.pdf>

SEMI University

- Launched in early February 2023



- More than 360 on-demand courses created specifically for the semiconductor industry.
- Courses covering front-end and back-end manufacturing operations, principles of chip design, workplace safety, technology trends and more.
- Most of the coursework is in English, with only a few classes offered in Chinese and Japanese. Adding more content in multiple languages is a priority post-launch.
- More info at www.semi.org/en/semi-university

SEMI Standards Publications

- Total SEMI Standards in portfolio: 1,069
- Includes 320 Inactive Standards

Cycle	New	Revised	Reapproved	Withdrawn
July 2022	0	3	0	0
August 2022	0	5	0	2
September 2022	2	3	6	1
October 2022	3	8	0	0

Cycle	Designation	Title	Committee	Region
September 2022	SEMI F120	Test Method for the Electrochemical Critical Pitting Voltage Testing of Stainless Steel Used in Corrosive Gas Systems	Gases	NA
September 2022	SEMI E120.2	Specification for Protocol Buffers for Common Equipment Model (CEM)	Information & Control	NA
October 2022	SEMI E125.2	Specification for Protocol Buffers for Equipment Self Description (EqSD)	Information & Control	NA
October 2022	SEMI E134.2	Specification for Protocol Buffers of Data Collection Management	Information & Control	NA
October 2022	SEMI E142.4	Specification for SECS II Protocol for Substrate Mapping Using Item Transfer	Information & Control	NA

Publications Backlog

Processing Queue: 37

YTD Published: 93

- 5/5/2022 A&R cycle: 8
- 6/30/2022 A&R cycle: 11
- 8/18/2022 A&R cycle: 9
- 10/12/2022 A&R cycle: 9
- New Standards: 11
- Revisions: 43
- Reapprovals: 36
- Withdrawals: 3

Contributing Factors

- Increased A&R cycles have resulted in a constant rate of documents for processing.
- Ballots are becoming more complex and require more time to process.
- As the Regulations, Procedure Manual, and Style Manual are updated, there is the potential for delays in processing documents (e.g., ensuring documents comply).

5-Year Review

Display Name	Description	Date Available	Disposition
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SEMI E4-0418	Specification for SEMI Equipment Communications Standard 1 Message Transfer (SECS-I)	4/13/2018	LI update by GEM300
SEMI E175-1116	Specification for Subsystem Energy Saving Mode Communication (SESMC)	11/18/2016	Revision Planned
SEMI E167-1213	Specification for Equipment Energy Saving Mode Communications (EESM)	12/13/2013	Revision Planned
SEMI E160-1211 (Reapproved 0317)	Specification for Communication of Data Quality	3/31/2017	LI biased terminology update
SEMI E157-0611 (Reapproved 0616)	Specification for Module Process Tracking	6/30/2016	LI update by GEM300
SEMI E151-1211 (Reapproved 0517)	Guide for Understanding Data Quality	5/26/2017	LI biased terminology update
SEMI E40-1218	Specification for Processing Management	12/14/2018	Reapproval
SEMI E39-1218	Specification for Object Services: Concepts, Behavior, and Services	12/24/2018	Reapproval
SEMI E133-1218	Specification for Automated Process Control Systems Interface	12/21/2018	line item ballot

Attachment: Staff Report April 2023 v1

4 Ballot Review

NOTE 1: TC Chapter adjudication on ballots reviewed is detailed in the Audits & Review (A&R) Subcommittee Forms for procedural review. The A&R forms are available as attachments to these minutes. The attachment number for each balloted document is provided under each ballot review section below.

4.1 Document #6951, Reapproval of SEMI E126-0708 - Specification for Equipment Quality Information Parameters (EQIP)

Motion: This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: By: Chris Maloney / Intel Corporation
Second: Jack Ghiselli / Ghiselli Consulting

Discussion: None

Vote: 16-Y 0-N. Motion passed.

Attachment: AR 6951

4.2 Document #7001, Revision to SEMI E125-1022 Specification for Equipment Self Description (EqSD) and SEMI E125.2-1022 Specification for Protocol Buffers for Equipment Self Description (EqSD)

Motion: This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: By: Albert Fuchigami / PEER Group Inc.
Second: Jack Ghiselli / Ghiselli Consulting

Discussion: None

Vote: 14-Y 0-N. Motion passed.

Attachment: AR 7001



4.3 Document #7002, Revision to SEMI E132-0922 Specification for Equipment Client Authentication and Authorization and SEMI E132.2-0422e Specification for Protocol Buffers for Equipment Client Authentication and Authorization (ECA)

Motion: This Document passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.

By / 2nd: By: Albert Fuchigami / PEER Group Inc.
Second: Brian Rubow / Cimatrix Incorporated

Discussion: None

Vote: 13-Y 0-N. Motion passed.

Attachment: AR 7002_v6

4.4 Document # 7003, Revision to SEMI E134-1022 Specification for Data Collection Management and SEMI E134.2-1022 Specification for Protocol Buffers of Data Collection Management

Motion: This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: By: Albert Fuchigami / PEER Group Inc.
Second: Brian Rubow / Cimatrix Incorporated

Discussion: None

Vote: 11-Y 0-N. Motion passed.

Attachment: AR 7003_v2

4.5 Document # 7004, Reapproval of E130-0618, Specification for Prober Specific Equipment Model for 300 mm Environment (PSEM300)

Motion: This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: By: Brian Rubow / Cimatrix Incorporated
Second: Chris Maloney / Intel Corporation

Discussion: None

Vote: 13-Y 0-N. Motion passed.

Attachment: AR 7004

4.6 Document # 7017, Line Item Revision to SEMI E120.2-0922, Specification for Protocol Buffers for Common Equipment Model (CEM)

Motion: Line item(s) [1], [2] passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.

By / 2nd: By: Albert Fuchigami / PEER Group Inc.
Second: Brian Rubow / Cimatrix Incorporated

Discussion: None

Vote: 12-Y 0-N. Motion passed.

Attachment: AR 7017

4.7 Document # 6924, New Standard: Specification for Equipment Management of Consumables and Durables

Reject: Reject Name: Albert Fuchigami / PEER Group
Negative #: 1
Negative Reference: Transition numbers 10 and 11 in Table 4
Negative Text:
* Transition numbers 10 and 11 in Table 4 are reversed.
* Transition 10 goes from RETAIN to REQUIRED in the state model, but the table entry is for RETAIN to RECOMMENDED.
* Similarly Transition 11 goes from RETAIN to RECOMMENDED, but the Table entry is for RETAIN to REQUIRED.
* Same problem with Table 17 for Durable State Model.

Motion: Negative is related and persuasive.

By / 2nd: By: Brian Rubow / Cimatrix Incorporated
Second: Jack Ghiselli / Ghiselli Consulting

Discussion: None

Vote: 13-Y 0-N. Motion passed.

Motion: This Document failed TC Chapter review and will be returned to the TF for rework.

By / 2nd: By: Brian Rubow / Cimatrix Incorporated
Second: Jack Ghiselli / Ghiselli Consulting

Discussion: None

Vote: 15-Y 0-N. Motion passed.

4.8 Document # 6925, New Subordinate Standard: Specification for SECS-II Protocol for Equipment Management of Consumables and Durables

Reject: Reject Name: Albert Fuchigami / PEER Group
Negative #: 1
Negative Reference: Transition numbers 10 and 11 in Table 4
Negative Text:
- Can't report errors with invalid ObjID when using S2F49
- Primary Standard states the RejectionList parameter is used to identify invalid parameters and the reason.
- Ballot states when using S2F49/F50 to implement the services (e.g. ProceedWithConsumable), the Consumable's ObjID is specified in the OBJSPEC item.
- There's no way to report an invalid ObjID is specified back to the host. Could report HCAACK=3 (at least one parameter is invalid), but there is no parameter for the ObjID like there is for S2F41 usage, so we cannot report it in the list of invalid parameters in the S2F50 message.

Motion: Negative is related and persuasive.

By / 2nd: By: Brian Rubow / Cimatrix Incorporated
Second: Jack Ghiselli / Ghiselli Consulting

Discussion: None

Vote: 16-Y 0-N. Motion passed.

Motion: This Document failed TC Chapter review and will be returned to the TF for rework.

By / 2nd: By: Brian Rubow / Cimatrix Incorporated
Second: Jack Ghiselli / Ghiselli Consulting

Discussion: None

Vote: 16-Y 0-N. Motion passed.

5 Subcommittee and Task Force Reports

5.1 CDS Task Force

Ryan Bond (Intel) reported for the CDS Task Force. Of note:

Ballot 6926 – Equipment Operator Access Management and Monitoring

- Discussed current draft of requirements
- Reviewed feedback from the iNEMI Proof of Concept Working Group
- Update will be posted to connect@SEMI site

Attachment: CDS TF Report 20230405

5.2 DDA Task Force

Albert Fuchigami (PEER Group) reported for the DDA Task Force. Of note:

Freeze 3 Ballot Status

Standard (Ballot)	Ballot Status	Lead
E138 (6336)	Published - 03/15/2019	Brian Rubow (Cimetrix)
E145 (6436)	Published – 05/31/2019	Inna Skvortsova (SEMI)
E178 (6300)	Published – 01/10/2020	Mitch Sakamoto (ZAMA)
E132 (6719A)	Published – 04/29/2022	Mitch Sakamoto (ZAMA) Albert Fuchigami (PEER)
E132.2 (6346F)	Published – 04/29/2022	Albert Fuchigami (PEER)
E134 (6720A)	Published – 10/22	Brian Rubow (Cimetrix)
E134.2 (6347A, PCR)	Published – 10/22 (Triggered SEMI E132-0922)	Albert Fuchigami (PEER)
E179 (6837, 6892)	Published – 08/22	Albert Fuchigami (PEER)
E125.2 (6345A)	Published – 10/22	Albert Fuchigami (PEER)
E125 (6891)	Published – 10/22	Albert Fuchigami (PEER)
E120.2 (6908)	Published – 09/22 (Triggered SEMI E120-0922)	Albert Fuchigami (PEER)
E121 Reapproval (6932)	In Publication	Michelle Sun (SEMI)
E179 (6947)	In Publication	Albert Fuchigami (PEER)
E125, E125.2 (7001)	Adjudication	Albert Fuchigami (PEER) / Brian Rubow (Cimetrix)
E132, E132.2 (7002)	Adjudication	Albert Fuchigami (PEER) / Brian Rubow (Cimetrix)
E134, E134.2 (7003)	Adjudication	Albert Fuchigami (PEER) / Brian Rubow (Cimetrix)
E120.2 (7017)	Adjudication	Albert Fuchigami (PEER)
E164 (6930)	In Development	Alan Weber (Cimetrix)

Future meetings to discuss:

- Software Vendor Test Session
- Addressing issues identified with SEMI E164 (for Freeze 3 inclusion).

Attachment: DDA TF Report - April 2023 Meeting_Rev 1.1

5.3 EDP Task Force

Shuba Viswanath (Intel) reported for the EDP Task Force. Of note:

New SNARFs proposals



- New Standard – Specification for Equipment Data Publication
- New Subordinate Standard – Specification for Common Data for Etch Components to Specification for Equipment Data Publication
- New Subordinate Standard – Specification for Common Data for Vacuum Components to Specification for Equipment Data Publication

Meeting Results (Technical Summary)

- Reviewed SNARF wording in prep for I&C committee discussion
- Did a straw poll and committee members agreed that I&CC accept the EDP recommendation to accept the New SNARF
- Examination of existing standards (E54, EtherCAT) for components such as Vacuum pumps, prober equipment etc., to avoid duplication
- Discussions on Data abstraction vs. data naming, defining the format and structure of the data to enable modeling of the features
- Discussion to start off with an equipment (Etch) not covered by above existing standards
- Discussion on the data volume and Big Data handling
- Focus will be on “What data” first and then on the “How”
- Work through the primary and then the subordinate standard for Etch

Attachment: EDP TF Report - Spring

5.4 GUI Task Force

Tami Tracey (Cimetricx) reported for the GUI Task Force. Of note:

Meeting Results

- Reviewed 6743A draft revision 1.9
- Prior to the meeting comments were received from TF members
- Six of 8 items were discussed in the meeting
 - Requirements of primary and secondary GUI interfaces
 - Navigating back to a view with an active user task
 - Cases where selecting display objects in a view do not cause an overlay
 - (Similarly) Broad requirement for overlay objects to be invoked
 - Requirements for modality of overlay objects, and alternates to modality
 - SSD recommendations being permitted in LSD designs
- Two items not discussed (out of time)
 - ‘Close’ vs ‘OK’ control buttons to dismiss overlays
 - Alarms and Help functions – order, location, behavior

TF Plan

- To continue development work on 6743A draft
 - To review additional two issues, and others as brought forward by TF members, we propose an interim meeting in the very near future.
 - Intention is complete this review/edit process to create draft revision 1.10
- To request I&CC approval to submit ballot in Cycle 5 - 2023
- Next Task Force Meetings
 - *New proposed* interim TF Meeting
 - Tuesday, April 18, 2023, 8am-10am Pacific Time -- *To be confirmed with SEMI staff*

- Online Ring Central
- SEMI NA Summer 2023 – Tuesday July 11, 2023, 8am-10am Pacific Time
 - Ballot adjudication from Cycle-5 voting

Attachment: GUI TF Report - 2023-04-04

5.5 PCS Task Force

James Moyne (AMAT / University of Michigan) reported for the PCS Task Force. Of note:

- New Ballots and ballot plans
 - E133 and E133.1 are due for 5-year review
 - Will need to review for restricted bias terms; bias terms ARE in the standard so we will need to develop a ballot to address for both E133 and E133.1
 - Will need to develop a SNARF:
 - James to develop a SNARF for line items to address bias terms.
 - Michelle to send James a Word version of E133 and E133.1
 - Plan
 - James to generate SNARF Apr/May;
 - TF to work on term replacement at West;
 - Ballot generation for Cycle 7.
 - Longer term: Working on optimized maintenance addition to E133
 - Definitions completed; successfully balloted by E-RAMP TF
 - Will work to align the Intl. Roadmap for Devices and Systems (IRDS) with these definitions
 - Consensus: Go into holding pattern until we have resources which is expected early next year
 - Potential resources from proposals into government for CHIPS act

Attachment: PCS-TF-report20230404

5.6 ESEC Task Force

Gerald Shelley (Edwards) reported for the ESEC Task Force. Of note:

ESEC Decisions:

- Change SNARF structure to two SNARFs at July meeting E175 and E167/E167.1
- Prepare E175 after SNARF approval, current draft is acceptable
- Prepare E167/E167.1 as well
 - Update scope definition to add process module
 - Update state model and transition table
- Submit both for ballot

Attachment: SEMI_ESEC_230405

5.7 GEM300 Task Force

Brian Rubow (Cimetrix) reported for the GEM300 Task Force. Of note:

Meeting Results



- Reviewed SNARF for E172 in detail after discussing many options.
- Reviewed SNARF to replace 6835 in detail

Attachment: SEMI NA-ICC-GEM300-TF Report Spring 2023

5.8 ABFI Task Force

Brian Rubow (Cimatrix) reported for the ABFI Task Force. Of note:

E116 Discussion - State when waiting for material

- When a process module is prepared for processing but does not yet have any material, what is the state; BUSY or IDLE.
- When a process module is preparing to process, it is BUSY and the task type is Process
- When a process module has completed the process preparation but has no material, is the state BUSY and task type = Waiting?
- Task type = Waiting definition states that material must be present
- The only choice is to transition to IDLE.
- Conclusion: The State when waiting for material is IDLE.
- Action: Start a topic on the ABFI TF Discussion tab (Ryan Bond)
- The response to this discussion by the community will determine if we need to clarify the standard.

Ballot 6948: E142 Line Item Revision Corrections and Clarifications

- Add diagrams to help clarify E142 usage for various scenarios
- Initial draft by Peter Meusbürger and Dave Huntley
- RELATED INFORMATION 2
- BEST PRACTICES
 - o R2-1.1 Creating a map template
 - o R2-1.2 Managing the Map Lifecycle
 - o R2-1.3 Defining bins
 - o R2-1.4 Defining process flow
 - o R2-1.5 Bin code matching

Attachment: ABFI TF Meeting_04032023

6 Next Meeting and Adjournment

The next meeting is scheduled for Thursday, July 13, 2023, at SEMICON West. See <http://www.semi.org/standards-events> for the current list of events.

Monday, July 10, 2023

- 9:00-10:00 – NA I&C Leadership Meeting
- 10:00-12:00 – GEM300 Task Force
- 13:00-15:00 – ABFI Task Force
- 15:00-17:00 – EDP Task Force

Tuesday, July 11, 2023

- 8:00-10:00 – GUI Task Force



- 10:00-11:00 – ESEC Task Force
- 11:00-12:00 – PCS Task Force
- 13:00-16:00 – DDA Task Force
- 16:00-17:30 – CDS Task Force

Thursday, July 13, 2023

- 9:00-15:00 – I&C NA TC Chapter Meeting

Adjournment: 3:02

Respectfully submitted by:

Michelle Sun
Coordinator
SEMI North America
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Minutes tentatively approved by:

Jack Ghiselli (Ghiselli Consulting), Co-chair	6/6/2023
James Moyne (AMAT / University of Michigan), Co-chair	6/6/2023

Table 13 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
Required Meeting Elements Nov 2022	AR 6951
NA-IC-TC-Chapter-Minutes-Nov2022	AR 7001
JA_I&C_Liaison_20221222_v1.2	AR 7002_v6
Liaison report_InC_KR_Mar2023	AR 7003_v2
I&C Taiwan Liaison report_Nov._2022_v2	AR 7004
China I&C Committee Chapter Liaison Report -v1	AR 7017
Staff Report April 2023 v1	
ABFI TF Meeting_04032023	CDS TF Report 20230405
DDA TF Report - April 2023 Meeting_Rev 1.1	EDP TF Report – Spring
GUI TF Report - 2023-04-04	PCS-TF-report20230404
SEMI NA-ICC-GEM300-TF Report Spring 2023	SEMI_ESEC_230405

^{#1} Due to file size and delivery issues, attachments must be downloaded separately. A .zip file containing all attachments for these minutes is available at www.semi.org. For additional information or to obtain individual attachments, please contact [SEMI Staff Name] at the contact information above.