



Information & Control Taiwan TC Chapter

Meeting Summary and Minutes

Taiwan Summer Standards Meeting 2021

July 30, 13:00 – 15:00

OVTCCM

TC Chapter Announcements

Next TC Chapter Meeting

TBD, 2021

SEMI Taiwan office, Hsinchu County, Taiwan

Table 1 Meeting Attendees

Co-Chairs: Scott Yu (TSMC)

SEMI Staff: Cher Wu, Ada Tai, Michelle Sun

<i>Copmany</i>	<i>First</i>	<i>Last</i>	<i>Copmany</i>	<i>First</i>	<i>Last</i>
ASML The Netherlands BV	Rob	Joustra	ITRI	Ares	Cho
Atotech	David	Chiu	ITRI	Ming Hui	Chung
BLVD8	Jerry	Cho	Kokusai-electric	Matsuda	Mitsuhiro
Changing Information Technology Inc	Miller	Change	Marsh	Anthony	Lee
Cimetrix	Michael	Lee	Moxa	Chris	Chen
Delta Electronics	Anderson	Ni	Peer Group	Albert	Fuchigami
Docutek Solutions	Lambert	Lin	Powerchip Technology	Tim	Chen
Egis Technology	Karen	Chang	Sunnet Cyber	Water	Chang
Eunodata	KY	Wang	SCREEN Semiconductor Solutions	Takayuki	Nishimura
Eunodata	Stephen	Liu	SGS	Kelvin	Yen
Flagship	Jack	Huang	TEL	Mochizuki	Tadashi
Flagship	Andy	Tuan	TSMC	Leon	Chang
ITRI	Ares	Cho	Willis Towers Watson Taiwan	Bright	Wu
ITRI	Vannia	Lin			

Table 2 Leadership Changes

<i>WG/TF/SC/TC Name</i>	<i>Previous Leader</i>	<i>New Leader</i>
None		

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>
6506C	New Standard: Specification for Cybersecurity of Fab Equipment	Passed, Ratification Ballot to be issued

#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>
None			

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/wstdsba1.nsf/TFOFSNARF>

Table 7 Authorized Ballots

<i>#</i>	<i>When</i>	<i>TF</i>	<i>Details</i>
None			

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

<i>#</i>	<i>TF</i>	<i>Title</i>	<i>Expiration Date</i>
None			

Table 9 SNARF(s) Abolished

<i>#</i>	<i>TF</i>	<i>Title</i>
None		

Table 10 Standard(s) to receive Inactive Status

<i>Standard Designation</i>	<i>Title</i>
None	

Table 11 New Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
1	SEMI Staff Cher	Apply TF name change onto SEMI Lotus Notes Change Task Force Name from Equipment Edge Computing Data Governance to Equipment Edge Data Governance

Table 12 Previous Meeting Action Items

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>
None		

1. Welcome, Reminders, and Introductions

Scott Yu (TSMC) called the meeting to order at 13:00. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: [Required Element Nov 2020](#)

2. Review of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: Approve the minutes as written

By / 2nd: Michael Lee (Cimetrix)/ Karen Chang (Egis Technology Inc.)

Discussion: None

Vote: 25-Y 0-N in favor. Motion passed

Attachment: [20210416 IC Meeting Minutes v2](#)

3. Liaison Reports

3.1. Information & Control North America TC Chapter

Cher Wu reported for the I&C NA TC Chapter. Of note:

- Leadership

TF Leadership Changes: ESEC Task Force Gerald Shelley (Edwards) – new co-leader

Sensor Bus Task Force James Moyne has stepped down as co-leader

- Meeting Information

Previous Meeting: July 22-23, 2021, Online via OVTCCM

Next Meeting: December 6-9, 2021, Online via OVTCCM

- Ballot Result

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
6346F	Revision to Add a New Subordinate Standard: Specification for Protocol Buffers for Equipment Client Authentication and Authorization (ECA) to SEMI E132-0419: Specification for Equipment Client Authentication and Authorization	Passed
6744	Line Item Revision to SEMI E54.4-0316, Specification for Sensor/Actuator Network Communications for DeviceNet	
LI-1	Add support for vacuum pressure gauges	Passed
LI-2	Add support for generic equipment networked sensor	Passed
LI-3	Editorial update for referenced document title	Passed
LI-4	Editorial updates for trademark annotation	Passed
6743	Revision to SEMI E95-1101, Specification for Human Interface for Semiconductor Manufacturing Equipment	Failed

6598C	Line Item Revision to SEMI E37-0819: Specification For High Speed Secs Message Services (HSMS) Generic Services and E37.1-0819: Specification For High-Speed Secs Message Service Single Selected-Session Mode (HSMS-SS)	
LI-1	Clarify T8	Passed
6683	Line Item Revision to Standard SEMI E148-1109 (Reapproved 0614) SPECIFICATION FOR TIME SYNCHRONIZATION AND DEFINITION OF THE TS-CLOCK OBJECT	
LI-1	Logical Naming Conventions	Passed with Editorial Changes
6718A	Revision to SEMI E125-0414, Specification for Equipment Self Description (EqSD)	Passed, Ratification Ballot to be Issued
6720A	Revision to SEMI E134-0319, Specification for Data Collection Management	Passed
6347A	Revision to Add a New Subordinate Standard: Specification for Protocol Buffers of Data Collection Management to SEMI E134-0414, Specification for Data Collection Management	Passed
6719A	Revision to SEMI E132-0419, Specification for Equipment Client Authentication and Authorization	Passed
6803	LINE ITEM REVISION TO SEMI E179-0320 SPECIFICATION FOR PROTOCOL BUFFERS COMMON COMPONENTS	
LI-1	Define a standard way to throw RPC exception and report error information details with trailer gRPC metadata	Passed
6802	Line Item Revision to SEMI E5-0220: SPECIFICATION FOR SEMI EQUIPMENT COMMUNICATIONS STANDARD 2 MESSAGE CONTENT (SECS-II)	
LI-1	New Equipment Constant to specify ItemPart Retry attempt counter	Passed
LI-2	New SECS-II Message to Indicate Stream 21 Support	Passed
LI-3	Clarify S21F17 Description	Passed
LI-4	Updates to better support Stream 21 usage	Passed
6804	Revision to Add a New Subordinate Standard: SPECIFICATION FOR SECS II PROTOCOL FOR SUBSTRATE MAPPING WITH ITEM TRANSFER to E142-0820: SPECIFICATION FOR SUBSTRATE MAPPING	Failed
6566B	New Standard: Specification for Malware Free Equipment Integration	Failed

- Cycle 7 or 8 of 2021

Document #	Document Title
6566C	New Standard: Specification for Malware Free Equipment Integration
6345	Revision to Add a New Subordinate Standard: Specification for Protocol Buffers for Equipment Self Description (EqSD) to SEMI E125-0414, Specification for Equipment Self Description (EqSD)
TBD	LINE ITEM REVISION TO SEMI E179-0320 SPECIFICATION FOR PROTOCOL BUFFERS COMMON COMPONENTS
6572	Revision to SEMI E30-0418: Specification for The Generic Model for Communications and Control of Manufacturing Equipment (GEM)
TBD	LINE ITEM REVISION TO SEMI E87-XXXX SPECIFICATION FOR CARRIER MANAGEMENT (CMS) and SEMI E87.1-XXXX SPECIFICATION FOR SECS-II PROTOCOL FOR CARRIER MANAGEMENT (CMS)
TBD	LINE ITEM REVISION TO SEMI E87-0619 SPECIFICATION FOR CARRIER MANAGEMENT (CMS) and SEMI E87.1-0619 SPECIFICATION FOR SECS-II PROTOCOL FOR CARRIER MANAGEMENT(CMS) and SEMI E90-1218 SPECIFICATION FOR SUBSTRATE TRACKING and SEMI E90.1-0312 SPECIFICATION FOR SECS-II PROTOCOL FOR SUBSTRATE TRACKING
6743A	Revision to SEMI E95-1101, Specification for Human Interface for Semiconductor Manufacturing Equipment

6804A	Revision to Add a New Subordinate Standard: SPECIFICATION FOR SECS II PROTOCOL FOR SUBSTRATE MAPPING WITH ITEM TRANSFER to E142-0820: SPECIFICATION FOR SUBSTRATE MAPPING
TBD	Reapproval of E54, Specification for Sensor/Actuator Network
TBD	Reapproval of E54.1, Specification for Sensor/Actuator Network Common Device Model
TBD	Reapproval of E54.2, Guide for Writing Sensor/Actuator Network (SAN) Letter Ballots
TBD	Reapproval of E54.20, Specification for Sensor/Actuator Network Communications for EtherCAT
TBD	Reapproval of E54.24, Specification for Sensor/Actuator Network Specific Device Model of a Generic Equipment Networked Sensor (GENsen)
TBD	Reapproval of E109.1, Specification for SECS-II Protocol for Reticle and Pod Management (RPMS)
TBD	Reapproval of E123.1, Specification for SECS-II Protocol for Handler Specific Equipment Model (HSEM)
TBD	Reapproval of E142.3, Specification for Web Services for Substrate Mapping

- Activities Approved via GCS between Meetings

Approved on May 18, 2021

- Ballot Authorization:

6804, Revision to Add a New Subordinate Standard: SPECIFICATION FOR SECS II PROTOCOL FOR SUBSTRATE MAPPING WITH ITEM TRANSFER to E142-0820: SPECIFICATION FOR SUBSTRATE MAPPING

6803, LINE ITEM REVISION TO SEMI E179-0320: SPECIFICATION FOR PROTOCOL BUFFERS COMMON COMPONENTS

6802, Line Item Revision to SEMI E5-0220: SPECIFICATION FOR SEMI EQUIPMENT COMMUNICATIONS STANDARD 2 MESSAGE CONTENT (SECS-II)

- SNARF Approval

Revision to Add a New Subordinate Standard: SPECIFICATION FOR SECS II PROTOCOL FOR SUBSTRATE MAPPING WITH ITEM TRANSFER to E142-0820: SPECIFICATION FOR SUBSTRATE MAPPING

LINE ITEM REVISION TO SEMI E179-0320: SPECIFICATION FOR PROTOCOL BUFFERS COMMON COMPONENTS

Line Item Revision to SEMI E5-0220: SPECIFICATION FOR SEMI EQUIPMENT COMMUNICATIONS STANDARD 2 MESSAGE CONTENT (SECS-II)

- SNARF(s) Abolished

#	SC/TF/WG	Details
6527	DDA TF	Revision to SEMI E125-0414, Specification for Equipment Self Description (EqSD) (Replaced by SNARF 6718)
6553	DDA TF	Revision to SEMI E134-0319 Specification for Data Collection Management (Replaced by SNARF 6720)
6571	DDA TF	Revision to SEMI E132-0419: Specification for Equipment Client Authentication and Authorization (Replaced by SNARF 6719)

- SNARF(s) Granted a One-Year Extension

#	TF	Title	New Expiration Date
6147	ABFI TF	Specification of Backend Die Traceability	1/6/2018
6343	GEM300 TF	Line-Item Revision to SEMI E138: Specification for XML Semiconductor Common Components	2/5/2019

6345	DDA TF	Revision to Add a New Subordinate Standard: Specification for Protocol Buffers for Equipment Self Description (EqSD) to SEMI E125-0414, Specification for Equipment Self Description (EqSD)	2/20/2019
6346	DDA TF	Revision to Add a New Subordinate Standard: Specification for Protocol Buffers for Equipment Client Authentication and Authorization (ECA) to SEMI E132-1015, Specification for Equipment Client Authentication and Authorization	2/20/2019
6347	DDA TF	Revision to Add a New Subordinate Standard: Specification for Protocol Buffers of Data Collection Management to SEMI E134-0414, Specification for Data Collection Management	2/20/2019
6348	GEM300 TF	Revision to E30-0418: Specification for the Generic Model for Communications and Control of Manufacturing Equipment (GEM)	4/11/2019

- 5-Year Review

Standard	Title	Action Deadline	Comments
SEMI E167-1213	Specification for Equipment Energy Saving Mode Communications (EESM)	12/13/2013	Ask ESEC TF Leaders
SEMI E167	Specification for Equipment Energy Saving Mode Communications (EESM)	1213	Ask ESEC TF Leaders
SEMI E167.1		1213	Ask ESEC TF Leaders
SEMI E125-0414	Specification for Equipment Self Description (EqSD)	4/25/2014	Being Revised
SEMI E148-1109 (Reapproved 0614)	Specification for Time Synchronization and Definition of the TS-Clock Object	6/27/2014	Being Revised
SEMI E168-0915	Specification for Product Time Measurement	9/18/2015	Being Revised
SEMI E54.4-0316	Specification for Sensor/Actuator Network Communications for DeviceNet	3/25/2016	Being Revised
SEMI E125	Specification for Equipment Self Description (ESD)	414	Being Revised
SEMI E142.1	Specification for XML Schema for Substrate Mapping	1016	Being Revised (6682)
SEMI E142.2	Specification for SECS II Protocol for Substrate Mapping	1016	Being Revised (6682)
SEMI E54-0316	Specification for Sensor/Actuator Network	3/25/2016	Needs Reapproval
SEMI E175-1116	Specification for Subsystem Energy Saving Mode Communication (SESMC)	11/18/2016	Needs Reapproval

SEMI E54.24-1116	Specification for Sensor/Actuator Network Specific Device Model of a Generic Equipment Networked Sensor (GENsen) 11/25/2016		Needs Reapproval
SEMI E109.1	Specification for SECS-II Protocol for Reticle and Pod Management (RPMS)	1110	Needs Reapproval
SEMI E123.1	Specification for SECS-II Protocol for Handler Specific Equipment Model (HSEM)	1109	Needs Reapproval
SEMI E142.3	Specification for Web Services for Substrate Mapping	1016	Needs Reapproval
E54.1		16	Needs Reapproval
E54.2		16	Needs Reapproval
SEMI E54.20-0316	Specification for Sensor/Actuator Network Communications for EtherCAT	3/25/2016	Needs Reapproval or Revision
SEMI E120.1	XML Schema for the Common Equipment Model (CEM)	414	Take no action (pending Reg change)
SEMI E125.1	Specification for Soap Binding for Equipment Self Description (EqSD)	414	Take no action (pending Reg change)
SEMI E132.1	Specification for Soap Binding for Equipment Client Authentication and Authorization (ECA)	1015	Take no action (pending Reg change)
SEMI E134.1	Specification for Soap Binding of Data Collection Management (DCM)	414	Take no action (pending Reg change)

- Task Force Reports

Please refer to the attachment.

Attachment: NAI C Liaison Report 2021-July

3.2 I&C Japan TC Chapter

-- Mr. Matsuda Mitsuhiro reported for the I&C Japan TC Chapter. Of note:

- Meeting information:

Last meeting : April 15, 2021, SEMI Japan, Web Conference

Next meeting : September 28, 2021 9:30AM-12:00noon[JST], Web Conference

- Authorized Activities

Doc #	Type	SC/TF/CFG	Document Title/Details
TBD	SNARF	JA I&C Maintenance TF	SNARF for Line-Item revision to E169-0615 Guide for Equipment Information System Security

- Task Force Highlights

Ballot Review meetings

2021 Cycle 2: 6 NA ballot and 1 Taiwan ballot were reviewed on March 3&5, 2021

- Five-Year Review

- SEMI E171-0916, Specification for Predictive Carrier Logistics (PCL)
GEM300 Task Force will consider action
- SEMI E169-0615, Guide for Equipment Information System Security
Line Item Revision SNARF is approved
Japan I&C Maintenance Task Force is making a draft document
- SEMI E99-0317, Specification for Carrier ID Reader/Writer Maintenance TF
Japan I&C Maintenance Task Force will consider action

Attachment: 202104 JA I&C LiaisonR v1.0

3.3 I&C Korea TC Chapter

- Cher Wu reported for the I&C Korea TC Chapter. Of note:

- Meeting information:

Last meeting: April 9, 2021 (* It is rescheduled from April 1 due to Covid-19)

SEMI Korea, Seoul, Korea

Next meeting: August 27, 2021(It is cancelled due to Covid-19 situation and will be rescheduled shortly)

SEMI Korea, Seoul, Korea

- Ballot Results

<i>Doc #</i>	<i>Document Title</i>	<i>TC Chapter Action</i>
6695	Line Item Revision to E87-0619, Specification for Carrier Management (CMS) and E87.1-0619 Specification for SECS-II Protocol for Carrier Management (CMS)	Passed as balloted

- Other Activities

[SEMI Korea Webinar] Energy Saving Equipment Communication

To introduce standards to support energy saving communications in the fab between the host and process tools (SEMI E167 – Specification for Equipment Saving Mode Communications, EESM), and between the tools and the subfab equipment (SEMI E175 – Specification for Subsystem Energy Saving Mode Communication, SESMC).

<https://www.semi.org/ko/connect/events/semi-korea-webinar-eneoji-jeolyageul-wihan-semiui-jangbi-tongsinpyojun>

Attachment: Liaison report_InC_KR_Jul2021_V2

4. SEMI Staff Report

--Cher Wu (SEMI) gave the SEMI Staff Report. Of note:

SEMI Global 2021 Calendar of SEMICON and other Events.

2021 Critical Dates for SEMI Standards Ballots

Attachment: I&C TC Staff Report 20210730

5. Ballot Review

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.

5.1 Document #6506C, New Standard: Specification for Cybersecurity of Fab Equipment

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

Attachment: 6506C Procedural Review

6. Subcommittee and Task Force Reports

6.1 GEM300 Task Force: None

6.2 Equipment Information Integration Task Force: None

6.3 Backend Factory Integration TF: None

6.4 Fab and Equipment Information Security TF: Update the 6506C current status

6.5 Equipment Edge Computing Data Governance TF

-Change TF Name from Equipment Edge Computing Data Governance to be Equipment Edge Data Governance

-Please refer the Attachment: EECDG TF Update -0730

7. Old Business

None

8. New Business

Title: Change Task Force Name from Equipment Edge Computing Data Governance to Equipment Edge Data Governance

Motion: Change Task Force Name from Equipment Edge Computing Data

By / 2nd: Michael Lee (Cimetrix) / Karen Chang / Egis Technology

Discussion: None

Vote: Result: 21-Y 0-N. Motion passed.

9. Next Meeting and Adjournment

The next meeting is TBD later at SEMI Taiwan office. See <http://www.semi.org/standards-events> for the current list of events.

Adjournment: 15:50



Respectfully submitted by:

Cher Wu

Senior Executive Consultant

SEMI Taiwan

Phone: 886-3-560-1777 #510

Email: cherwu@semi.org

Minutes tentatively approved by:

<i>Chair</i>	<i>Date approved</i>
Scott Yu/ TSMC	2021/8/12

Table 13 Index of Available Attachments^{#1}

<i>Title</i>	<i>Title</i>
01_ <u>Required Element Nov 2020</u>	05_ <u>Liaison report InC KR Jul2021 V2</u>
02_ <u>20210416 IC Meeting Minutes v2</u>	06_ <u>I&C TC Staff Report 20210730</u>
03_ <u>NA I C Liaison Report 2021-July</u>	07_ <u>EECDG TF Update -0730</u>
04_ <u>202104 JA I&C LiaisonR v1.0</u>	08_ <u>6506C Procedural Review</u>

#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.