

Japan TC Chapter of Information and Control Global Technical Committee Meeting Summary and Minutes

Japan Standards Winter 2014 Meetings in conjunction with SEMICON Japan 2014
Friday, December 5, 2014, 11:00 a.m. – 4:00 p.m.
Tokyo Big Sight Conference Tower, Tokyo

Next Committee Meeting

Thursday, April 23, 2015, 1:30 p.m. – 5:00 p.m. <Japan Time>
Japan Standards Spring 2015 Meetings, Tokyo

Committee Announcements (optional)

None

Table 1 Meeting Attendees

Italics indicates virtual participants

Co-Chairs: Takayuki Nishimura (SCREEN Semiconductor Solutions), Mitsuhiro Matsuda (Hitachi Kokusai Electric)

SEMI Staff: Chie Yanagisawa

Attendee: 16 + **SEMI:** 2

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Canon Anelva	Sato	Mitsugu	SK Hynix	Ahn	Chul Hong
Doople	Kim	Hyungsu	Tokyo Electron	Asakawa	Terry
Hitachi High-Technologies	Toyoshima	Yuko	Tokyo Electron	Mochizuki	Tadashi
Hitachi Kokusai Electric	Matsuda	Mitsuhiro	Tokyo Electron	Murata	Naoko
KSIA	Lee	Jiyeon	Tokyo Electron	Sakamoto	Mitch
Miracom Inc.	Lee	Kevin	Yokogawa Solution Service	Nakagawa	Takashi
Murata Machinery	Imoto	Shinichiro	Wndtree Automation	Kim	Won Tae
SCREEN Semiconductor Solutions	Nishimura	Takayuki	SEMI Korea	Shim	Natalie
SCREEN Semiconductor Solutions	Takasaki	Yoshihisa	SEMI Japan	Yanagisawa	Chie

* Alphabetical order by company name

Table 2 Leadership Changes

<i>Group</i>	<i>Previous Leader</i>	<i>New Leader</i>
GEM300 Task Force	Yoshihisa Takasaki (SCREEN Semiconductor Solutions)	Yoshihisa Takasaki (SCREEN Semiconductor Solutions) Yuko Toyoshima (Hitachi High-Technologies)
Predictive Carrier Logistics (PCL) Task Force	Terry Asakawa (Tokyo Electron) Yuko Toyoshima (Hitachi High-Technologies)	None (PCL Task Force was merged into GEM300 Task Force)

Table 3 Ballot Results (or move to Section 4, Ballot Review)

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

Failed ballots and line items were returned to the originating task forces for re-work and re-balloting.

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
5730	Line Item Revision to SEMI E170-0714, "Specification for Production Recipe Cache (PRC)"	
Line Item 1	Improve Convention	Passed as balloted
Line Item 2	Delete section 9 (Section 8 in E170-0714), and add a section for 'Conceptual Description'	Passed as balloted
Line Item 3	Add explicit expressions to the protection requirements of 'Recipe Queue Space' and 'Recipe Execution Space'	Passed as balloted
Line Item 4	Add Cache Management Rules	Passed as balloted
Line Item 5	Add automatic Clear PRC function by equipment upon host communication establishment	Passed as balloted
Line Item 6	Adjust access (R/W) definitions of attributes and variables	Passed as balloted
Line Item 7	Improvement of wordings and explanations	Passed as balloted
5731	Revision to add a New Subordinate Standard "Specification for SECS-II Protocol for Production Recipe Cache" to SEMI E170-0714 "Specification for Production Recipe Cache (PRC)"	Passed as balloted
5735	Line Item Revision to SEMI E171-0914, "Specification for Predictive Carrier Logistics (PCL)"	
Line Item 1	Elimination of PEC while preserving Carrier Flow management capability	Passed as balloted
Line Item 2	Improvement of convention on optional expressions and state report clarifications	Passed as balloted
Line Item 3	Add explanations to Appendix	Passed as balloted
Line Item 4	Rename prediction related mnemonics and add explanations as needed	Passed as balloted
Line Item 5	Improve / correct wordings and add explanations as needed	Passed as balloted
Line Item 6	Add internal buffer scenarios	Passed as balloted
5778	Revision to add a New Subordinate Standard for "Specification for SECS-II Protocol" for SEMI E171-0914 "Specification for Predictive Carrier Logistics"	Passed with editorial changes
5779	Line Item Revision to SEMI E169-0414, "Guide for Equipment Information System Security"	
Line Item 1	Correct expressions in the sections 7.3.5.7.1 and 9.2.4.2.1.	Passed as balloted

Table 4 Authorized Ballots (or move to Section 7, New Business)

<i>#</i>	<i>When</i>	<i>SC/TF/WG</i>	<i>Details</i>
5601A	Cycle 2 through Cycle 5-2015	GEM300 TF	New Standard: "Specification for Wafer Object Model"
5828	Cycle 2 through Cycle 5-2015	GEM300 TF	Line Item Revision to SEMI E170-mmyy "Specification for Production Recipe Cache (PRC)" (Doc. 5730) and SEMI E170.1-mmyy "Specification for SECS -II Protocol for Production Recipe Cache (PRC)" (Doc.5731)
5829	Cycle 2 through Cycle 5-2015	GEM300 TF	Line Item Revision to SEMI E171-mmyy "Specification for Predictive Carrier Logistics" (PCL) (Doc. 5735) and SEMI E171.1-mmyy "Specification for SECS-II Protocol for Predictive Carrier Logistics (PCL)" (Doc. 5778)

Table 5 Authorized Activities (or move to Section 7, New Business)

#	Type	SC/TF/WG	Details
--	TFOF	GEM300 TF	Approved the revised TFOF of GEM300 Task Force for merging PCL Task Force into GEM300 Task Force.
5828	SNARF	GEM300 TF	Line Item Revision to SEMI E170-mmyy "Specification for Production Recipe Cache (PRC)" (Doc. 5730) and SEMI E170.1-mmyy "Specification for SECS -II Protocol for Production Recipe Cache" (Doc.5731)
5829	SNARF	GEM300 TF	Line Item Revision to SEMI E171-mmyy "Specification for Predictive Carrier Logistics (PCL)" (Doc. 5735) and SEMI E171.1-mmyy "Specification for SECS-II Protocol for Predictive Carrier Logistics" (Doc. 5778)

Table 6 New Action Items (or move to Section 8, Action Item Review)

Item #	Assigned to	Details
20141205-#1	Mitsuhiro Matsuda (Hitachi Kokusai Electric)	To ask if NA DDA TF the wording "EDA freeze versions" is proper in this context in NA liaison report.
20141205-#2	SEMI Staff	To ask SEMI Taiwan staff when the next TC meeting will be held and the agenda and the detail information
20141205-#3	SEMI Staff	To revise the organization structure for Japan TC Chapter of I&C Committee
20141205-#4	Mitsuhiro Matsuda (Hitachi Kokusai Electric)	To contact to Lance Rist (NA WTW TF leader) about the liaison with PCL activity

Table 7 Previous Meeting Actions Items (or move to Section 8, Action item Review)

Item #	Assigned to	Details
20140918-#1	SEMI Staff	To send out email message in order recruit members working for revision to SEMI E99-1104E (Reapproved 0710) "The Carrier ID Reader/Writer Functional Standard: Specification of Concepts, Behavior, and Services" and SEMI E99.1-1104 (Reapproved 0710) "Specification for SECS-I and SECS-II Protocol for Carrier ID Reader/Writer Functional Standard" => CLOSE
20140918-#2	SEMI Staff	To send out email message in order recruit members working for revision to SEMI E107-1102 (Reapproved 0710) "Specification of Electric Failure Link Data Format for Yield Management System" => CLOSE

1 Welcome, Reminders, and Introductions

Takayuki Nishimura (SCREEN Semiconductor Solutions) called the meeting to order at 11:00 a.m. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

2 Review of Previous Meeting Minutes

The committee reviewed the minutes of the previous meeting held on September 18, 2014.

Motion:	To approve the minutes of the previous meeting with modifying the editorial changes
By / 2nd:	Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Yoshihisa Takasaki (SCREEN Semiconductor Solutions)
Discussion:	None

Vote: 12 in favor and 0 opposed. **Motion Passed.**

3 Technical Committee Awards

The Japan TC Chapter of Information & Control Global Technical Committee gave the Technical Committee Awards to the following two members

- Mitch Sakamoto (Tokyo Electron Limited) for the dedication to the development of SEMI E169 and to all the I&C Committee activity for a long time.
- Tadashi Mochizuki (Tokyo Electron Limited) for the dedication to the GEM300 TF activity as a co-leader.

4 Liaison Reports

4.1 Europe

Mitsuhiro Matsuda (Hitachi Kokusai Electric) reported for the Europe TC Chapter as attached.

Attachment: [01_141022_Europe_I&C_LiaisonReport](#)

4.2 Korea

Natalie Shim (SEMI Korea) reported for the Korea TC Chapter as attached.

Attachment: [02_KR_I&C_liaison_20141104](#)

4.3 North America

Mitsuhiro Matsuda (Hitachi Kokusai Electric) reported for the North America TC Chapter as attached.

Action Item #1: Mitsuhiro Matsuda (Hitachi Kokusai Electric) to ask if NA DDA TF the wording “EDA freeze versions” is proper in this context in NA liaison report.

Attachment: [03_NA I&C report December 2014](#)

4.4 Taiwan

Mitsuhiro Matsuda (Hitachi Kokusai Electric) reported for the Taiwan TC Chapter as attached. Of note:

- This committee has been inactive for more than 3 years
- A forward plan review meeting was held on November 28, 2014.

Action Item #2: Chie Yanagisawa (SEMI Japan) to ask SEMI Taiwan staff when the next TC meeting to be held and the agenda and the detailed information.

Attachment: [04_Taiwan I&C Standard Committee Liaison Report Nov 2014](#)

4.5 SEMI Staff Report

Chie Yanagisawa (SEMI Japan) reported for the SEMI Staff Report as attached. Of note:

- Global SEMI Events
- Global Standards Meetings Schedule
- Member Recognition Awards
- Ballot Critical Dates
- New Regulations and Procedure Guide
- Publication Update

Attachment: [05_SEMI Staff Report 2014 December_R0.3](#)

5 Ballot Review

There were the five ballots reviewed at this meeting and the committee actions for each document and each line item are listed in the Table 3 Ballot Results. The details of ballot review are found in the attachments.

Attachment: [06_#5730_BallotReviewSheet_2014_1205](#), [07_#5731_BallotReviewSheet_2014_1205](#), [08_#5735_BallotReviewSheet_2014_1205](#), [09_#5778_BallotReviewSheet_2014_1205](#), [10_#5779_BallotReviewSheet_2014_1205](#)

6 Subcommittee & Task Force Reports

6.1 Equipment Information System Security (EISS) Task Force

Mitch Sakamoto (Tokyo Electron) reported for Equipment Information System Security (EISS) Task Force as attached. Of note:

- Ballot #5779: Line Item Revision to SEMI E169 adjudicated and passed as balloted at “Ballot Review” section of this meeting.
- The workshop for SEMI E169 to be held in February 2015

Attachment: [11_EISS_TF_2014_12_Japan_Report](#)

6.2 Fiducial Mark Interoperability Task Force

Mitsuhiro Matsuda (Hitachi Kokusai Electric) reported for Fiducial Mark Interoperability Task Force as attached. Of note:

- TF meetings were held in November 25 and December 5, 2014 with Traceability and Silicon Global TC members.
- Because of changing responsible region from the North America to Japan, Fiducial Mark Interoperability TF is charged to discuss Doc. 5752: Revision to SEMI T7-0303 (Reapproved 0709) for the Japan TC Chapter of Traceability Global Technical Committee.

Attachment: [12_20141203FMI-TF-Report_r0](#)

6.3 Joint report of Predictive Carrier Logistics (PCL) Task Force and Japan GEM300 Task Force

Yoshihisa Takasaki (SCREEN Semiconductor Solutions) reported for Predictive Carrier Logistics Task Force and Japan GEM300 Task Force jointly as attached. This report contained information on the following items.

- Predictive Carrier Logistics Task Force leaders and Japan GEM300 Task Force leader to propose the merge of the two TFs because those TFs are duplicated in membership at the “New Business” section of this meeting.
- The following ballots adjudicated at “Ballot Review” section of this meeting.
 - Revision to SEMI E170
 - Line Item Revision to E170 PRC
 - Subordinate Standard for E170 PRC
 - Revision to SEMI E171
 - Line Item Revision to E171 PCL
 - Subordinate Standard for E171 PCL

Attachment: [13_JA_PCLGEM300TF_Report_20141205_R2](#)

6.4 Japan I&C Maintenance Task Force

Mitsuhiro Matsuda reported for Japan I&C Maintenance Task Force as attached. Of note:

- The proposal of the activity of revision to the following documents to be assigned to Japan I&CC Maintenance Task Force for reviewing the documents and the preparation of a SNARF would be made at the “Old Business” section of this meeting.
 - SEMI E99-1104E (Reapproved 0710) and SEMI E99.1-1104 (Reapproved 0710)

- SEMI E107-1102 (Reapproved 0710)
 - Hideaki Ogihara (Reno Sub-Systems) is assigned to consider what action should be taken for this document.

Attachment: 14_20141205JPMaintenanceTF-Report_r0

6.5 Sensor Bus Task Force

There was no report for Sensor Bus Task Force.

7 Old Business

7.1 Five Years Review

7.1.1 SEMI E99/SEMI E99.1

Mitsuhiro Matsuda stated that two volunteers are recruited for this activity as mentioned in the Japan I&CC Maintenance TF report at this meeting. He addressed the committee on this topic as following.

Motion:	To approve this activity of revision to SEMI E99-1104E (Reapproved 0710) “The Carrier ID Reader/Writer Functional Standard: Specification of Concepts, Behavior, and Services” and SEMI E99.1-1104 (Reapproved 0710) “Specification for SECS-I and SECS-II Protocol for Carrier ID Reader/Writer Functional Standard” to be assigned to Japan I&CC Maintenance TF for reviewing the documents and the preparation of a SNARF
By / 2nd:	Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Yoshihisa Takasaki (SCREEN Semiconductor Solutions)
Discussion:	None
Vote:	13 in favor and 0 opposed. Motion passed.

7.1.2 SEMI E107-1102 (Reapproved 0710) “Specification of Electric Failure Link Data Format for Yield Management System”

Mitsuhiro Matsuda stated that one volunteer, Hideaki Ogihara (Reno Sub-Systems), was assigned to this activity as mentioned in the Japan I&CC Maintenance TF report at this meeting.

8 New Business

8.1 Consolidating Predictive Carrier Logistics (PCL) TF and GEM300 TF

As mentioned in the joint report of these two task forces of this meeting, Yoshihisa Takasaki addressed the committee on this topic as following because these task forces are duplicated in membership.

Motion:	To approve to merge Predictive Carrier Logistics (PCL) TF into GEM300 TF
By / 2nd:	Yoshihisa Takasaki (SCREEN Semiconductor Solutions) / Terry Asakawa (Tokyo Electron)
Discussion:	None
Vote:	13 in favor and 0 opposed. Motion passed.

The following action was also proposed after the decision of merging PCL TF into GEM300 TF.

Motion:	To approve the revised TFOF of GEM300 TF
By / 2nd:	Yoshihisa Takasaki (SCREEN Semiconductor Solutions) / Terry Asakawa (Tokyo Electron)
Discussion:	None
Vote:	12 in favor and 0 opposed. Motion passed.

The revised TFOF is available at the URL below.

<http://downloads.semi.org/web/wstdsbal.nsf/18a679096dfd445188256d35007d447d/bf9133083557aa164925787300384ea3!OpenDocument>

Action Item #3: Chie Yanagisawa to revise the organization structure for Japan TC Chapter of I&C Committee.

8.2 SNARF Proposal

8.2.1 Line Item Revision to SEMI E170 (Doc. #5828 is assigned to this SNARF at a later date.)

Terry Asakawa addressed the committee on this topic.

Motion:	To approve the SNARF “Line Item Revision to SEMI E170-mmyy (Doc. 5730), “Specification for Production Recipe Cache and SEMI Doc.5731 Specification for SECS –II Protocol for Production Recipe Cache” to SEMI E170-0714 “Specification for Production Recipe Cache (PRC)””
By / 2nd:	Terry Asakawa (Tokyo Electron) / Yoshihisa Takasaki (SCREEN Semiconductor Solutions)
Discussion:	None
Vote:	12 in favor and 0 opposed. Motion passed.

8.2.2 Line Item Revision to SEMI E171 (Doc. #5829 is assigned to this SNARF at a later date.)

Terry Asakawa also addressed the committee on this topic.

Motion:	To approve the SNARF “Line Item Revision to E171-mmyy (Doc. 5735), “Specification for Predictive Carrier Logistics and SEMI Doc. 5778 Specification for SECS-II Protocol for Predictive Carrier Logistics” to SEMI E171-0914 “Specification for Predictive Carrier Logistics (PCL)””
By / 2nd:	Terry Asakawa (Tokyo Electron) / Yoshihisa Takasaki (SCREEN Semiconductor Solutions)
Discussion:	None
Vote:	13 in favor and 0 opposed. Motion passed.

Action Item #4: Mitsuhiro Matsuda to contact to Lance Rist (North America WTW TF leader) about the liaison with PCL activity.

8.3 Ballot Submission Proposal

8.3.1 Line Item Revision to SEMI E170

Terry Asakawa addressed the committee on this topic.

Motion:	To approve to submit the ballot “Line Item Revision to SEMI E170-mmyy (Doc. 5730), “Specification for Production Recipe Cache and SEMI Doc.5731 Specification for SECS –II Protocol for Production Recipe Cache” to SEMI E170-0714 “Specification for Production Recipe Cache (PRC)”” to Cycle 2 through Cycle 4 *The cycles for this ballot submission could be Cycle 2 through Cycle 5, because the ballot cycle schedule through 2015 was changed after Japan Standards Winter Meetings 2014.
By / 2nd:	Terry Asakawa (Tokyo Electron) / Naoko Murata (Tokyo Electron)
Discussion:	None
Vote:	13 in favor and 0 opposed. Motion passed.

8.3.2 Line Item Revision to SEMI E171

Terry Asakawa addressed the committee on this topic.

Motion:	To approve to submit the ballot “Line Item Revision to E171-mmyy (Doc. 5735), “Specification for Predictive Carrier Logistics and SEMI Doc. 5778 Specification for SECS-II Protocol for Predictive Carrier Logistics” to SEMI E171-0914 “Specification for Predictive Carrier Logistics (PCL)”” to Cycle 2 through Cycle 4 *The cycles for this ballot submission could be Cycle 2 through Cycle 5, because the ballot cycle schedule through 2015 was changed after Japan Standards Winter Meetings 2014.
By / 2nd:	Terry Asakawa (Tokyo Electron) / Naoko Murata (Tokyo Electron)
Discussion:	None
Vote:	12 in favor and 0 opposed. Motion passed.

8.3.3 Doc. #5601A: New Standard: Specification for Wafer Object Model

Yoshihisa Takasaki addressed the committee on this topic.

Motion:	To approve to submit Ballot 5601A, “Wafer Object Model” to Cycle 2 through Cycle 4 *The cycles for this ballot submission could be Cycle 2 through Cycle 5, because the ballot cycle schedule
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	through 2015 was changed after Japan Standards Winter Meetings 2014.
By / 2nd:	Naoko Murata (Tokyo Electron) / Yoshihisa Takasaki (SCREEN Semiconductor Solutions)
Discussion:	None
Vote:	13 in favor and 0 oppose. Motion passed.

9 Action Item Review

9.1 Open Action Items

None

9.2 New Action Items

Chie Yanagisawa (SEMI Japan) reviewed the new action items. These can be found in the New Action Items table at the beginning of these minutes.

10 Next Meeting and Adjournment

The next meeting of the Japan TC Chapter of Information & Control Global Technical Committee was tentatively scheduled for Friday, April 17, 2015 at Japan Standards Spring 2015 Meetings in Tokyo at this meeting.

The fixed meeting schedule was announced as it would be held on Thursday, April 23, 2015 at a later date.

Respectfully submitted by:

Chie Yanagisawa

Senior Standard Coordinator

SEMI Japan

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Minutes approved by:

Takayuki Nishimura (SCREEN Semiconductor Solutions), Co-chair	April 23, 2015
Mitsuhiro Matsuda (Hitachi Kokusai Electric), Co-chair	April 23, 2015

Table 8 Index of Available Attachments #1

#	Title	#	Title
01	141022_Europe_I&C_LiaisonReport	08	#5735_BallotReviewSheet_2014_1205
02	KR_I&C_liaison_20141104	09	#5778_BallotReviewSheet_2014_1205
03	NA I&C report December 2014	10	#5779_BallotReviewSheet_2014_1205
04	Taiwan I&C Standard Committee Liaison Report Nov 2014	11	EISS_TF_2014_12_Japan_Report
05	SEMI Staff Report 2014 December_R0.3	12	20141203FMI-TF-Report_r0
06	#5730_BallotReviewSheet_2014_1205	13	JA_PCLGEM300TF Report_20141205_R2
07	#5731_BallotReviewSheet_2014_1205	14	20141205JPMaintenanceTF-Report_r0

#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.