

Korea Information and Control Committee Meeting Summary and Minutes

15:00 – 18:00, Friday, November 8, 2013
T Island in Jeju, Korea

Next Committee Meeting

Thursday, February 13, 2014
#305, Coex, Seoul

Committee Announcements

None

Table 1 Meeting Attendees

Co-Chairs: Chulhong Ahn (SK hynix), Kevin Lee (Miracom), Hyungsu Kim (Samsung SDS)

SEMI Staff: Natalie Shim

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
ASM	Shim	Jong Sub	Samsung SDS	Kim	Hyungsu
ASM	Jung	Il Gun	SEMES	Cho	Chang Yul
KISA (Guest)	Lee	Chi Woo	SK hynix	Ahn	Chul Hong
KISA (Guest)	Lee	In Young	SK hynix	Choi	Yoo Ho
Kodi-S	Jung	Jin Soo	PSK	Um	Ray
Miracom	Lee	Kevin	TEL Korea	Im	Byoung Min
Samsung Electronics	Cho	Yun Kyoung			

Table 2 Leadership Changes

None

Table 3 Ballot Results

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>
*Cycle 3		
4946B	Line Item Revision to SEMI E87-0709, Specification for Carrier Management, CMS and SEMI E87.1-0707, Provisional Specification for SECS-II Protocol for Carrier Management (CMS); Add Carrier Ready to Unload Prediction Feature	Failed and returned to the task force for rework

Table 4 Authorized Ballots

None

Table 5 Authorized Activities

<i>#</i>	<i>Type</i>	<i>SC/TF/WG</i>	<i>Details</i>
4946	SNARF	GEM300 TF	Add line item to remove “Provisional” from the title of E87.1

Table 6 New Action Items

None

Table 7 Previous Meeting Actions Items

None

1 Welcome, Reminders, and Introductions

Kevin Lee (Miracom) called the meeting to order at 15:00. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: 01, SEMI Standards Required Meeting Elements

2 Review of Previous Meeting Minutes

The committee reviewed the minutes of the previous meeting held July 19, 2013.

Motion: Approve the minutes of the previous meeting as it is

By / 2nd: Yoo Ho Choi(SK hynix)/ Hyungsu Kim(Samsung SDS)

Discussion: None

Vote: 10-0 in favor. Motion carried.

Attachment: 02, Korea I&CC previous meeting minutes

3 Liaison Reports

3.1 Japan Information & Control Committee

Natalie Shim presented the Japan I&C Committee report. Of note:

- Leadership Changes
 - Mitsuhiro Matsuda (Hitachi Kokusai Electric) was appointed the Fiducial Mark Interoperability Task Force.
 - AMHS Task Force disbanded.
- Document Review Summary
 - #5486 [New Standard: Specification for Predictive Carrier Logistics Information from Equipment to be used for Predictive Carrier Logistic Management (PCL)] failed and was returned to the task force for rework.
- Upcoming ballots to be reviewed at SEMICON Japan 2013 meetings
 - #5422A [New Standard: Guide for Equipment Information System Security]
 - #5538 [New Standard: Specification for Production Recipe Cache (PRC)]
 - #5602 [Reapproval for SEMI E54.19-0308 Specification for Sensor/Actuator Network for MECHATROLINK]
 - #5603 [Revision to SEMI E54.12-0701E(Reapproved 1211): Specification for Sensor/Actuator Network Communications for CC-Link]
- Upcoming ballots to be reviewed at Japan Standards Spring 2014 meetings
 - #5615 [Revision to SEMI E98-0309 Provisional Specification for Object-based Equipment Model and SEMI E98.1-1102 (Reapproved 0309) Provisional Specification for SECS-II Protocol for the Object-based Equipment Model]
- Fiducial Mark Interoperability TF (newly formed)
 - Charter:
 - Standardization of fiducial mark as the alternative to the notch is now under development at the International 450mm Wafer Task Force under the Global Silicon Wafer Committee.

- Adoption of fiducial mark will affect not only Si wafer specification and related Standards but also Standards owned by other Global Technical Committees that reference the Notch. Furthermore, as readability of fiducial mark may change due to intentional and unintentional interaction of wafer surface and various tools in their process apparatuses and with wafer handling mechanisms, standardization of fiducial mark detection data and their communication is deemed necessary to support traceability and to compensate deteriorated readability of Fiducial Mark.
- In order to address above cross disciplinary challenge, this Task Force is established under five Global Technical Committees, and develops the Standards to support the fiducial mark.
- Scope:
 - Investigate and verify to introduce the fiducial mark.
 - Develop Standards to support the fiducial mark, such as T7 revision (Traceability Committee), Wafer Handling issue (Physical Interfaces & Carriers Committee), Backend Alignment issue (Assembly & Packaging Committee), Fiducial Mark Information Handling issue (Information & Control Committee) and so on.
 - Development of physical specification of fiducial mark is outside the scope of this TF.
- Leader:
 - Mitsuhiro Matsuda (Hitachi Kokusai Electric)
- GEM 300 TF
 - #5423A: Revision to SEMI E40.1 and SEMI E5, Add mapping to PPID for RecID
 - Published as SEMI E40.1-0813 and SEMI E5-0813.
 - #5538: “Specification for Production Recipe Cache (PRC)”
 - Completed cycle 6-2013 ballot and to be reviewed at the next meeting.
 - New SNARF #5600: Line-item revision to SEMI E5, SEMI E40 and E40.1, removal of inconsistencies- Remove of inconsistencies in Process Job Attributes.
 - New SNARF #5601: “New Standard: Specification for Wafer Object Model” - Introduce Wafer Object and its behavior.
 - Collaboration with NA GEM300 TF for #5454 Alarm Category
- Predictive Carrier Logistics (PCL) TF
 - #5486, New Standard: Specification for Predictive Carrier Logistic (PCL)
 - It is failed committee review and returned for re-work.
- Japan I&CC Maintenance TF
 - #5615, Revision to SEMI E98: Provisional Specification for Object-based Equipment Model and SEMI E98.1: Provisional Specification for SECS- II Protocol for the Object-based Equipment Model
 - Removal provisional
 - Ballot is rescheduled from cycle 5 to cycle 8 of 2013.
- Next meeting: September 19, 2013 at SEMI Japan Office, Tokyo
- Attachment:** 03, Japan Information & Control Committee Liaison Report

3.2 North America Information & Control Committee

Natalie Shim presented the North America Information & Control Committee report. Of note:

- Leadership Changes
 - AMHS IBSEM TF and Sort Map TF were disbanded.
- Document Review Summary
 - #5454C [Line Item Revisions to SEMI E30-0611, Generic Equipment Model (GEM) Standard and SEMI E5-0712, SEMI Equipment Communications Standard 2 Message Content (SECS-II)] failed and to be reballoted
 - #5509B [Revision to SEMI E94, Specification for Control Job Management, Clarify the entry for the definition of Alarms] passed as balloted.
 - # 5507 [Line Item Revisions to: SEMI E120, E120.1, E125, E125.1, E128, E132, E132.1, E134, E134.1, E138, E145, E164,
 - Line Item 1: Complementary Files and Various Materials
 - Line Item 2: E132 Issues
 - Line Item 3: E128 Issues
 - Line Item 4 E120 Issues
 - Line Item 5 E125 Issues
 - Line Item 6: E134 Issue
 - Line Item 7: E132 Client SessionPing
 - Line Item 8: E138 Issue] passed as balloted except Line item 2 about E132.
- Upcoming ballots to be reviewed at NA Spring 2014 Meetings
 - Cycle 8, 2013
 - # 5274B (New SEMI E54 Subordinate Standard: Specification for Sensor/Actuator Network Specific Device Model for Generic Equipment add-on Sensor (ADDON) to SEMI E54, Sensor/Actuator Network Standard
 - #5650 (Line Item Revisions to SEMI E133, Specification for Automated Process Control Systems Interface and SEMI E133.1, Provisional Specification for XML Messaging for Process Control Systems correct errors
 - Cycle 1, 2014
 - #5678 (Reapproval for SEMI 39, Object Services Standard: Concepts, Behavior, and Services)
 - #5679 (Reapproval for SEMI 91, Specification for Prober Specific Equipment Model (PSEM))
 - #5680 (Reapproval for SEMI E148, Specification for Time Synchronization and Definition of the TS-Clock Object)
 - Cycle 2, 2014
 - #4507A (Revision to SEMI E133.1, Provisional Specification for XML Messaging for Process Control Systems (PCS), Fault detection enhancements)
 - #5454D (Line Item Revisions to SEMI E30, Generic Equipment Model (GEM) Standard and SEMI E5, SEMI Equipment Communications Standard 2 Message Content (SECS-II), Modifications to the definition of alarms and alarm categories)

- #5507A (Line Item Revisions to SEMI E120, E120.1, E125, E125.1, E128, E132, E132.1, E134, E134.1, E138, E145, and E164, Address issues identified in DDA TF, minor/technical changes.)
 - #5508 (Revisions to:
 - SEMI E5, SEMI Equipment Communications Standard 2 Message Content (SECS-II);
 - SEMI E90, Specification for Substrate Tracking; and
 - SEMI E90.1, Specification for SECS-II Protocol Substrate Tracking
 Provide generalized support for multiple substrate groups such as those used in HB-LED's material management approach.)
 - #5589A (Revision to SEMI E5, E30, E30.1, E40.1, E82, E87.1, E88, E90.1, E91, E94.1, E109, E109.1, E116.1, E122, E122.1, E123, E123.1, E138, E153, Remove references and content related to "SML" and "SML Notation")
 - #5618 (New Standard: Specification for Preservation of Recipe Integrity)
 - #5619 (Revision to SEMI E30, Generic Model for Communications and Control of Manufacturing Equipment (GEM) and New Complimentary File: SECS-II Equipment Data Template)
 - #5620 (Revision to SEMI E5, SEMI Equipment Communications Standard 2 Message Content (SECS-II) and New Complimentary File: SECS-II Message Notation using XML)
 - #5677 (Revision to SEMI E164, Specification for EDA Common Metadata Correct the reported issues in the E164 Complimentary Files and Various Materials)
- Diagnostic Data Acquisition (DDA) TF
 - New SNARF, #5677 (Revision to SEMI E164, Specification for EDA Common Metadata)
 - A number of issues were reported in the E164 Complimentary Files and Various Materials
 - Also a conflict between E164 requirement 26 and E125 section 10.7.1 was reported.
 - The task force will correct the reported issues and the ballot targeted for cycle 2, 2014.
- Process Control Systems (PCS) TF
 - #5650 (Line Item revision to SEMI E133, Specification for Automated Process Control Systems Interface and SEMI E133.1 Provisional Specification for XML Messaging for Process Control Systems (PCS)
 - The task force plans to revise E133 to recognize the use of Complimentary Files (and Various Materials, as applicable).
 - Typographical and consistency errors will be also corrected. The target ballot submission schedule is cycle 2, 2014
 - #4507A (Revision to SEMI E133.1, Provisional Specification for XML Messaging for Process Control System (PCS)
 - Mainly for fault detection enhancements. The ballot targeted for cycle 2, 2014
- GEM300 TF
 - SNARF #5589 (Revision to SEMI E5, E30, E30.1, E40.1, E82, E87.1, E88, E90.1, E91, E94.1, E109.1, E116.1, E122, E122.1, E123, E123.1, E138, E153)
 - Remove references and content related to "SML" and "SML Notation"

- The SNARF was updated to include additional Standards to be revised.
- The ballot submission targeted for cycle 2, 2014
- SNARF #5618 (New Standard: Specification for Preservation of Recipe Integrity)
 - The SNARF scope and Copyright sections were updated.
 - The ballot submission targeted for cycle 2, 2014
- SNARF #5619 (Revision to SEMI E30, Generic Model for Communications and Control of Manufacturing Equipment (GEM) and New Complimentary File: SECS-II Equipment Data Template)
 - The overall SNARF was updated including submitter information, Rationale, Scope, General Milestones and Copyright sections.
 - Targeted ballot schedule is cycle 2, 2014
- SNARF #5620 (Revision to SEMI E5, SEMI Equipment Communications Standard 2 Message Content (SECS-II) and New Complementary File: SECS-II Message Notation using XML)
 - Changed to reflect revisions will be made to SEMI E5 instead of E30 and the ballot submission targeted for cycle 2, 2014
- #5454D (Line Item Revisions to SEMI E30, Generic Equipment Model (GEM) Standard and SEMI E5, SEMI Equipment Communications Standard 2 Message Content (SECS-II))
 - Modifications to the definition of alarms and alarm categories and the ballot submission targeted for cycle 2, 2014
- #5508 (SEMI E5, SEMI Equipment Communications Standard 2 Message Content (SECS-II); SEMI E90, Specification for Substrate Tracking; and SEMI E90.1, Specification for SECS-II Protocol Substrate Tracking)
 - Provide generalized support for multiple substrate groups such as those used in HB-LED's material management approach. The target ballot submission schedule is cycle 2, 2014.
- SECS Message Language (SML) Notation Copyright Review
 - A working group that would prepare a report to facilitate the TC Chapter examining the issue according to the SEMI Standards Regulations section 15.4 was established.
 - The working group will suggest areas of potential reproduction and examine the question of technical justification.
- Next meetings: April 2 for NA Spring 2014 Meetings at San Jose, California.
Attachment: 04, North America Information & Control Committee Liaison Report

3.3 SEMI Staff Report

Natalie Shim gave the SEMI Staff Report. Of note:

- Global Calendar of Events (2013-2014)
 - SEMICON Japan (December 4-6, 2013, Chiba)
 - European 3D TSV Summit (January 21-22, 2013, Grenoble)
 - SEMICON Korea/ LED Korea (February 12-14, 2013, Seoul)
 - SEMICON China (March 18-20, 2014, Shanghai)

- SEMICON Singapore (April 23-25, 2014, Marina Bay Sands)
- SEMICON West (July 8-10, 2014, San Francisco)
- Critical Dates update
 - [The last 2013 cycle] Cycle 8 (Ballot submission by October 16, voting period: October 23 – November 22)
 - 2014 Critical dates is introduced. It also can be found at semi website (www.semi.org/en/Standards/P_000788)
- SEMI Standards Publications (September 2013 cycle)
 - New Standards: 3
 - Revised Standards: 2
 - Reapproved Standards: 6
 - Withdrawn Standards: 0
 - Total SEMI Standards in portfolio: 892 (Includes 98 Inactive Standards)
- Upcoming Korea Winter meetings will be held during February 12 – 14 at Seoul, in conjunction with SEMICON Korea 2014.

Attachment: 05, SEMI Staff report

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.

NOTE 1: Committee adjudication on Cycle 3 is detailed in the Audits & Reviews (A&R) Subcommittee Forms for procedural review. This A&R form is available as attachments to these minutes. The attachment number for each document is provided below the summary table.

4.1 Cycle 3 Ballot

<i>Document #</i>	<i>Document Title</i>	<i>Committee Action</i>
4946B	Line Item Revision to SEMI E87-0709, Specification for Carrier Management, CMS and SEMI E87.1-0707, Provisional Specification for SECS-II Protocol for Carrier Management (CMS); Add Carrier Ready to Unload Prediction Feature	Failed and returned to the task force for rework

Attachment: 06, 4946B A&R report

NOTICE: This document met the 90% approval condition set forth in Section 9.6.3 of the *Regulations Governing SEMI Standards Committees* at the close of balloting.

5 Subcommittee & Task Force Reports

5.1 GEM300 task force

The task force leaders summarized the GEM300 task force meeting result by verbally. Of note:

- Meeting information
 - Last meeting: October 25 at TEL Korea
 - Next meeting: TBD
- #4946B (Line Item Revision to SEMI E87-0709, Specification for Carrier Management, CMS and SEMI E87.1-0707, Provisional Specification for SECS-II Protocol for Carrier Management (CMS); Add Carrier Ready to Unload Prediction Feature)
 - The task force realized that the ballot contains SML notation which has potential Copyright.
 - Additionally there was also “Provisional” issue on E87.1
 - Finally the task force decided to fail the ballot and rework it. No future ballot schedule submitted.

Motion: Fail 4946B and return it to the task force for rework.

By / 2nd: Yoo-Ho Choi (SK hynix)/ Chul Hong Ahn (SK hynix)

Discussion: - The supplant of SML notation should be discussed with other regions
- The SNARF needs to be revised to take out “Provisional” from the E87.1 title.

Vote: 9-0, Motion Carried

Motion: Update 4946 SNARF scope to add a line item, take off “Provisional” from the title of E87.1

By / 2nd: Jong Sub Shim (ASM)/ Byoung Min Im (TEL Korea)

Discussion: None

Vote: 10-0, Motion Carried

5.2 DDA task force

No update

6 Old Business

None

7 New Business

None

8 Action Item Review

8.1 Open Action Items

None

8.2 *New Action Items*

None

9 Next Meeting and Adjournment

The next meeting of the Korea I&C committee is scheduled for February 13, 2014 at COEX, Seoul in conjunction with SEMICON Korea 2014

Respectfully submitted by:
 Natalie Shim
 Standards Specialist
 SEMI Korea
 Phone: 81.2.531.7808
 Email: eshim@semi.org

Minutes approved by:

Chul Hong Ahn (SK hynix), Co-chair	<Date approved>
Kevin Lee (Miracom), Co-chair	<Date approved>
Hyungsu Kim (Samsung SDS), Co-chair	<Date approved>

Table 8 Index of Available Attachments #1

#	<i>Title</i>	#	<i>Title</i>
01	SEMI Standards Required Meeting Elements	04	NA I&CC liaison report
02	Korea I&CC previous meeting minutes	05	Staff Report
03	Japan I&CC liaison report	06	4946B A&R Report

#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.