TC Chapter Announcements

Next TC Chapter Meeting

Thursday, June 8, 2017, 14:00-17:00

SEMI Japan office, Tokyo, Japan

Table 1 Meeting Attendees

*italics* indicate virtual participants

<table>
<thead>
<tr>
<th>Company</th>
<th>Last</th>
<th>First</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hitachi High-Technologies</td>
<td>Toyoshima</td>
<td>Yuko</td>
</tr>
<tr>
<td>Hitachi Kokusai Electric</td>
<td>Matsuda</td>
<td>Mitsuhiro</td>
</tr>
<tr>
<td>SCREEN Semiconductor Solutions</td>
<td>Nishimura</td>
<td>Takayuki</td>
</tr>
<tr>
<td>Consultant</td>
<td>Asakawa</td>
<td>Terry</td>
</tr>
<tr>
<td>Tokyo Electron</td>
<td>Mochizuki</td>
<td>Tadashi</td>
</tr>
<tr>
<td>Tokyo Electron</td>
<td>Murata</td>
<td>Naoko</td>
</tr>
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</table>

Table 2 Leadership Changes

<table>
<thead>
<tr>
<th>WG/TF/SC/TC Name</th>
<th>Previous Leader</th>
<th>New Leader</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Architect</td>
<td>Hiroshi Kondo (Murata Machinery) and Tadashi Mochizuki (Tokyo Electron)</td>
<td>Hiroshi Kondo stepped down and Tadashi Mochizuki remains.</td>
</tr>
</tbody>
</table>

Table 3 Committee Structure Changes

<table>
<thead>
<tr>
<th>Previous WG/TF/SC Name</th>
<th>New WG/TF/SC Name or Status Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiducial Mark Interoperability Task Force</td>
<td>The TF is under the Japan TC Chapters of Silicon Wafers, PI&amp;C, I&amp;C, Traceability and Assembly &amp; Packaging. The TF’s discharge will be completed when agreed by all those TC Chapters. The Silicon Wafers agreed on March 9, Assembly &amp; Packaging agreed on March 13 and PI&amp;C agreed on April 19. The I&amp;C agreed at this meeting.</td>
</tr>
<tr>
<td>Document #</td>
<td>Document Title</td>
</tr>
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</tr>
</tbody>
</table>
| #6089      | Line Item Revision to:  
‘SEMI E170-0416: SPECIFICATION FOR SECURED FOUNDATION OF RECIPE MANAGEMENT SYSTEM (SFORMS)’,  
‘SEMI E170.1-0416: SPECIFICATION FOR SECS-II PROTOCOL FOR SECURED FOUNDATION OF RECIPE MANAGEMENT SYSTEM’, and  
‘SEMI E5-0813: SEMI EQUIPMENT COMMUNICATIONS STANDARD 2 MESSAGE CONTENT (SECS-II)’ with title change. | Passed with technical changes and without editorial changes  
Ratification ballot to be issued in Cycle 5-2017 |
| Line Item 1| Revise the Message Mapping in SEMI E170.1 with some Parameter Changes in SEMI E170, and Add SECS message definitions in SEMI E5. | Passed as balloted  
Superclean |
| Line Item 2| Change nonconforming title of SEMI E5 | Passed as balloted  
Superclean |
| #6090      | Line Item Revision to SEMI E91-0600 (Reapproved 1109), SPECIFICATION FOR PROBER SPECIFIC EQUIPMENT MODEL (PSEM) | Passed as balloted  
Superclean |
| Line Item 1| Reflect related SEMI E30 revisions | Passed as balloted  
Superclean |
| Line Item 2| Delete “provisional” related expressions | Passed as balloted  
Superclean |
| Line Item 3| Correct some technical errors and reference error | Passed as balloted  
Superclean |
| #6091      | Line Item Revision to SEMI E174-1116: SPECIFICATION FOR WAFER JOB MANAGEMENT (WJM) | Passed as balloted  
Superclean |
| Line Item 1| Replace old mnemonic “WFJOBJReport” with new mnemonic “WJReport”. | Passed as balloted  
Superclean |
| Line Item 2| Align terminologies and wordings with SEMI E133 | Passed as balloted  
Superclean |
| Line Item 3| Improve Abbreviations and Acronyms. | Passed as balloted  
Superclean |
| Line Item 4| Improve SEMI Standards references. | Passed as balloted  
Superclean |
| Line Item 5| Move figure to appropriate section and add explanations on WJ and WFJ. | Passed as balloted  
Superclean |
| Line Item 6| Move figures to appropriate sections and improve explanations of PJG and EXG. | Passed as balloted  
Superclean |
| Line Item 7| Make WJFlow optional and improve explanations | Passed as balloted  
Superclean |
| Line Item 8| Add explanations to figures in Potential Use Cases | Passed as balloted  
Superclean |
| Line Item 9| Add Response Information to WFJEvent and WJReport services. | Passed as balloted  
Superclean |
| Line Item 10| Improve expressions and explanations. | Passed as balloted  
Superclean |

Note 1: **Passed** ballots and line items will be submitted to the ISC Audit & Review Subcommittee for procedural review.  
Note 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 prior to the Originating TC Chapter meeting

<table>
<thead>
<tr>
<th>#</th>
<th>Type</th>
<th>SC/TF/WG</th>
<th>Details</th>
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<tbody>
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### Table 6 Authorized Activities

<table>
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</thead>
<tbody>
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### Table 7 Authorized Ballots

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<th>When</th>
<th>TF</th>
<th>Details</th>
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<tbody>
<tr>
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### Table 8 SNARF(s) Granted a One-Year Extension

<table>
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<tr>
<th>#</th>
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### Table 9 SNARF(s) Abolished

<table>
<thead>
<tr>
<th>#</th>
<th>TF</th>
<th>Title</th>
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<tbody>
<tr>
<td>None</td>
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</table>

### Table 10 Standard(s) to receive Inactive Status

<table>
<thead>
<tr>
<th>Standard Designation</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>None</td>
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</table>

### Table 11 New Action Items

<table>
<thead>
<tr>
<th>Item #</th>
<th>Assigned to</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>20170421-01</td>
<td>SEMI Japan staff</td>
<td>To send the materials for concept of CUARAM (Centralized User Authentication &amp; Role Authorization Management) to global I&amp;C TC Members for feedback, to send back to SEMI Japan staff or each locale staff</td>
</tr>
<tr>
<td>20170421-02</td>
<td>SEMI Japan staff</td>
<td>To send an email to ask if any I&amp;C member in Japan voluntarily works for revision to SEMI E54.17.</td>
</tr>
</tbody>
</table>
Table 12 Previous Meeting Action Items

<table>
<thead>
<tr>
<th>Item #</th>
<th>Assigned to</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>20161216-01</td>
<td>SEMI Korea staff and SEMI Taiwan staff</td>
<td>To send the materials for concept of CUARAM (Centralized User Authentication &amp; Role Authorization Management) that Terry Asakawa (Tokyo Electron) explained at the TC Chapter meeting held on December 16, 2016 to the TC members in each region before the upcoming TC Chapter meeting and then to receive feedback from them at the TC Chapter meeting. -&gt; WITHDRAW</td>
</tr>
</tbody>
</table>

1 Welcome, Reminders, and Introductions

Takayuki Nishimura (SCREEN Semiconductor Solutions) called the meeting to order at 13:30. The meeting reminders on antitrust issues, intellectual property issues and holding meetings with international attendance were reviewed. Attendees introduced themselves.

Attachment: 01_Required_Elements_Reg_20150327_E+J

2 Review of Previous Meeting Minutes

2.1 Review and Approval of Previous Meeting Minutes

The TC Chapter reviewed the minutes of the previous meeting.

Motion: To approve the minutes of the previous meeting as written.
By / 2nd: Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Mitsune Sakamoto (ZAMA Consulting)
Discussion: None
Vote: 9 in favor and 0 opposed. Motion Passed.

2.2 Action Items from the previous meeting

<table>
<thead>
<tr>
<th>Item #</th>
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<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>20161216-01</td>
<td>SEMI Korea staff and SEMI Taiwan staff</td>
<td>To send the materials for concept of CUARAM (Centralized User Authentication &amp; Role Authorization Management) that Terry Asakawa (Tokyo Electron) explained at this meeting to the TC members in each region before the upcoming TC Chapter meeting and then to receive feedback from them at the TC Chapter meeting. -&gt; WITHDRAW</td>
</tr>
</tbody>
</table>

No feedback has been received in response to this action item, therefore a new action item was proposed as following.

Action Item: 20170421-01, Assigned to SEMI Japan staff to send the materials for concept of CUARAM (Centralized User Authentication & Role Authorization Management) to global I&C TC Members for feedback, to send back to SEMI Japan staff or each locale staff.

3 Liaison Reports

3.1 Information & Control Europe TC Chapter

Chie Yanagisawa (SEMI Japan) reported that there is no update for the Information & Control Europe TC Chapter.

3.2 Information & Control Korea TC Chapter

Chie Yanagisawa (SEMI Japan) reported for the Information & Control Korea TC Chapter. Of note:

- GEM 300 Task Force
5832 (Generic Counter Model)
  - Doc. 5832 was failed and sent back to the TF for rework. Doc. 5832A is authorized for cycle 4.
4946 (Revision to E87)
  - SNARF will be reviewed to make sure the contents are up to date. Korea I&C TC Chapter plan to authorize 4946 ballot in cycle 6 or 7 in the next meeting (June 16) since Doc. 5738 (Revision to E87.1) passed at NA I&C TC Chapter meeting held on April 5.
5833 (Maintenance Program Model)
  - The comments on concept duplication between Doc. 5833 and existing standards such as E30 and E40 were received from previous ballot result. The author started to consider withdraw the activity. The final decision will be made in the next committee meeting
- Diagnostic Data Acquisition Task Force
  - Freeze 3 development status was updated to the committee. The TF leader decided to collaborate with NA DDA TF by sharing issue list. The TF will collect and summarize further feedback on Freeze 3 and share it at the NA Spring meeting.
- Advanced Back-end Factory Integration Task Force
  - The TF reviewed the urgent standardization items and decided to revise E142 first. The SNARF and the first draft will be submitted on next committee meeting.

Attachment: 02_KR_I&C_liaison_Apr_2017

3.3 Information & Control North America TC Chapter
Mitsuhirao Matsuda (Hitachi Kokusai Electric) reported for the Information & Control NA TC Chapter. Of note:
- Diagnostic Data Acquisition Task Force
  - New Co-Chair
    - Albert Fuchigami from PEER Group
    - An additional co-chair might be added next meetings
  - Meeting Discussion
    - EDA freeze 3 plan discussions
    - Coordination with the Korea DDA Task Force
  - Ballot Adjudication
    - PASSED - 6064A - Superclean
- Energy Saving Equipment Communication Task Force
  - Activities resumed at Standards Spring 2017 Meetings
  - Proposed SNARF for Line Items Revision to SEMI E167. Key points in provisional SNARF Draft:
    - Situation: The original standard was up to now not implemented in any fab. Besides that the communication standard between tool and subfab components has been released.
    - Purpose: It has to be checked whether the terminology and logic aligns between the two standards. Besides that it has to be reviewed whether there are any obstacles for implementation.
      - Simplify the state diagram so that it aligns with SEMI E175.
• Make forecast available by Host to production equipment on energy-saving opportunities in the near future (e.g. for the next 2 hours or definable period of time).
• Availability forecast should be chamber-specific (optional).
• Clean-up the standard regarding detailed requirements; remove or make optional.
• Distinguish between equipment and chamber states.
  o Plan submit SNARF for approval at Semicon West 2017 meeting
  o Next Step: plan to review SEMI E175 in 2018

GEM300 Task Force
  o Seeking Co-Chair;
  o Ballot Adjudication
    • FAILED
      - 5872A E172 SEDD Update
    • PASSED
      - 6066A-1, 6066A-2 E130 minor edit, E130.1 reapproval
      - 6068A-1, 6068A-2 E116 minor edit, E116.1 reapproval
      - 6026A E109, Line-item revision
      - 5738 E87.1 Major Revision to remove Provisional status
      - 5549A GEM E30 title change/conformance organization
    o Ballot Plans Cycle 5
      - 5872C E172 SEDD Update
      - 6114 New Simple Large Recipe

Process Control Systems - Task Force
  o Ballots adjudicated
    - 6067A (reapproval) passed
  o Authorized ballots
    - Revisions to SEMI E133 and SEMI E133.1 for Cycle 5-17 submission

Sensor Bus - Task Force
  o Ballots adjudicated
    - Ballot 6116 (reapproval)
    - Withdrawn & to be referred to Japan sister task force
  o New business
    - New SNARF for adding a GENSen SDM mapping into E54.9.

Graphical User Interfaces Task Force
  o SNARF6124, Revision to SEMI E95-1101-0307R, Specification for Human Interface for Semiconductor Manufacturing Equipment
    - Reviewed and discussed the specification to be reorganized and expanded
Discussed challenges related to small screen device displays and operating systems, i.e., tablet and smart phone form factors
First step, how the information displayed in the E95 Title Panel can be represented across all form factors

Next Meeting Schedule
- Monday, July 10-Wednesday, July 12 in conjunction with SEMICON West 2017

3.4 Information & Control Taiwan TC Chapter
Chie Yanagisawa (SEMI Japan) reported for the Information & Control Taiwan TC Chapter. Of note:
- Equipment Information Integration TF Task Force
  - The Task Force currently has no activities.
- GEM300 TF
  - The Task Force currently has no activities.
- Backend Factory Integration TF
  - Completed the mandatory two-week global I&C TC Member review of New SNARF for “Specification of Backend Die Traceability” on Nov. 14, 2016 and get the Doc # 6147.
- Printed Circuit board Equipment Communication Interfaces (PCBECI) TF- Failed
  - PCB is currently out of the charter of Global Information & Control Committee, and the TFOF or SNARF for PCB under I&CC is invalid. We have to abandon to set up this TF in I&C TC

3.5 SEMI Staff Report
Chie Yanagisawa (SEMI Japan) gave the SEMI Staff Report. Of note:
- SEMI Global 2017 Calendar of Events
- Global Standards Meeting Schedule
- 2017 Critical Dates for SEMI Standards Ballots
- A&R Ballot Review
- SEMI Standards Publications
- JRSC Topics
  - JRSC co-chairs change
    - Naoyuki Kawai (Self) stepped down and Hidetoshi Sakura (NuFlare Technology) is newly appointed.
- Standards Articles on SEMI Japan Newsletters
- Staff update
  - Mizue Iwamura to be newly assigned to I&C Japan TC Chapter after May 1, 2017.
- Contact Information
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 #6089 - Line Item Revision to “SEMI E170-0416: Specification For Secured Foundation Of Recipe Management System (SFORMS)”, "SEMI E170.1-0416” and "SEMI E5-0813: SEMI Equipment Communications Standard 2 Message Content (SECS-II)” with title change

Attachment: 06_6089_BallotReport

4.2 #6090 - Line Item Revision to SEMI E91-0600 (Reapproved 1109), Specification For Prober Specific Equipment Model (PSEM)

Attachment: 07_6090_BallotReport

4.3 #6091 - Line Item Revision to SEMI E174-1116: Specification For Wafer Job Management (WJM)

Attachment: 08_6091_BallotReport

5 Subcommittee and Task Force Reports

5.1 Fiducial Mark Interoperability (FMI) TF

Mitsuhiro Matsuda (Hitachi Kokusai Electric) explained that the TF is under the Japan TC Chapters of Silicon Wafers, PI&C, I&C, Traceability and Assembly & Packaging and there is no issue left concerned to all related TC Chapters but Assembly & Packaging. So the TF leaders discussed and decided to propose TF’ discharge. He continued that the discharge will be completed when agreed by all those TC Chapters. The Silicon Wafers agreed on March 9, Assembly & Packaging agreed on March 13 and PI&C agreed on April 19. The proposal for the I&C to be made at the New Business section of this meeting later.

5.2 GEM300 TF

Terry Asakawa (Consultant) reported for the TF as attached material. Of note:

- Ballot Pre-Review
  - #6089 Line item Revision to E170 SFORMS
  - #6091 Line Item Revision to E174 WJM

- New Ballot Proposal
  - #nnnn Revision to E170 SFORMS
    - Revise the issues pointed out through the scenario study from the following aspects
      - Improvements of technical issues
      - Addition of application notes
      - Correction of editorial issues
  - Submit ballot as soon as the publication which reflects SEMI Doc. #5973 and #6089 is done

- Topics
  - Large recipe issue has been discussed
    - NA is planning to submit a ballot
• Concept to adopt one big message may cause computer resource issue
  ▪ JA has been thinking of:
    • Addition of guidance which limits maximum message size
    • Use of appropriate block/deblock mechanism
  ○ E170 Scenario Study
    ▪ Started study of scenario to enrich application note
    ▪ Requirement inputs from Toshiba

Attachment: 09_JA_ICC_GEM300_TF_Report_2017_0421_R1.0

5.3 Japan I&C Maintenance TF

Mitsuhiro Matsuda (Hitachi Kokusai Electric) reported for the TF that Ballot #6090 (Line Item Revision to SEMI E91-0600 (Reapproved 1109)) with three line items passed as balloted at the Ballot Review section of this TC Chapter meeting above.

6 Old Business
None

7 New Business

7.1 Step down of Technical Architect

Chie Yanagisawa (SEMI Japan) reported that she received a message from one of the Technical Architects, Hiroshi Kondo (Murata Machinery), that he could not participate in Standards activity in the future due to his new assignment. Consequently, Hiroshi Kondo stepped down from the Technical Architect.

7.2 Discharge of Fiducial Mark Interoperability TF

Mitsuhiro Matsuda (Hitachi Kokusai Electric) addressed the committee on this topic.

Motion: To approve the discharge of Fiducial Mark Interoperability TF
By / 2nd: Mitsuhiro Matsuda (Hitachi Kokusai Electric) / Terry Asakawa (Consultant)
Discussion: One issue for process after back grinding is left. The TF leaders agreed that it will be discussed under the Assembly & Packaging Japan TC Chapter.
Vote: 9 in favor and 0 opposed. Motion Passed.

7.3 SEMI E54.17-0812: Specification of Sensor/Actuator Network for A-LINK

Mitsuhiro Matsuda (Hitachi Kokusai Electric) addressed the committee on this topic.

Ballot #6116: Reapproval for SEMI E54.17-0812, Specification of Sensor/Actuator Network for A-LINK was submitted for Cycle 2-2017 and the ballot results were reviewed at the I&C NA TC Chapter meeting on April 5, 2017. However SEMI E54.17 is found out that it was firstly developed by the I&C Japan TC Chapter. Therefore, the Japan TC Chapter decided to conduct five-year-review for this document.

He asked for the following action for this five-year review.
Action Item: 20170421-02, SEMI Japan Staff to send an email to ask if any I&C member in Japan voluntarily works for revision to SEMI E54.17.

7.4 SNARF for SEMI E170 and SEMI E170.1

Naoko Murata (Tokyo Electron) addressed the committee on this topic.

New SNARF for Line Item Revision to SEMI E170-mmyy: SPECIFICATION FOR SECURED FOUNDATION OF RECIPE MANAGEMENT SYSTEM (SFORMS), SEMI E170.1-mmyy: SPECIFICATION FOR SECS-II PROTOCOL FOR SECURED FOUNDATION OF RECIPE MANAGEMENT SYSTEM and SEMI E5-mmyy: SEMI EQUIPMENT COMMUNICATIONS STANDARD 2 MESSAGE CONTENT (SECS-II)

Motion: To approve the new SNARF for Line Item Revision to SEMI E170, SEMI E170.1 and SEMI E5
By / 2nd: Naoko Murata (Tokyo Electron) / Mitsuhiro Matsuda (Hitachi Kokusai Electric)
Discussion: None
Vote: 9 in favor and 0 opposed. Motion Passed.

7.5 Proposal for New Working Group for Equipment Data Acquisition (EDA)

Mitsune Sakamoto (ZAMA Consulting) addressed the committee on this topic. He proposed a seminar for Equipment Data Acquisition (EDA), explaining based on the material as attached.

Then, Mitsuhiro Matsuda (Hitachi Kokusai Electric) proposed to form a new working group for Equipment Data Acquisition (EDA) and the issues should be discussed at the working group first.

Mitsune Sakamoto made the following proposal.

Motion: To approve the formation of the new working group for Equipment Data Acquisition (EDA)
By / 2nd: Mitsune Sakamoto (ZAMA Consulting) / NaTakashi kagawa (Yokogawa Solution Service)
Discussion: Mitsune Sakamoto is appointed as the leader of this working group.
Vote: 8 in favor and 0 opposed. Motion Passed.

Attachment: 10_2017_Data_Collection_SeminarPlan_20170421

8 Next Meeting and Adjournment

The next meeting is scheduled for Thursday, June 8, 2017, 14:00-17:00 at SEMI Japan office at Japan Standards Summer 2017 Meetings. See http://www.semi.org/en/events for the current list of meeting schedules.

Having no further business, a motion was made to adjourn. Adjournment was at 17:00.
Respectfully submitted by:
Chie Yanagisawa
Manager
SEMI Japan
Phone: +81.3.3222.5863
Email: cyanagisawa@semi.org

Minutes tentatively approved by:

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Chair</th>
<th>Approval Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Takayuki Nishimura (SCREEN Semiconductor Solutions), Co-chair</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Mitsuhiro Matsuda (Hitachi Kokusai Electric), Co-chair</td>
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Table 13 Index of Available Attachments#1

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#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.