



North America Information & Control Committee Meeting Summary and Minutes



SEMI®
International
Standards

NA Standards Spring 2013 Meetings
3 April 2013, 0800 – 1630 Pacific Time
SEMI Headquarters in San Jose, California

Committee Announcements

Next Committee Meeting

NA Standards Meetings at SEMICON West 2013

Wednesday 9 July 2013, 0800 – 1630 Pacific Time

San Francisco Marriott Marquis Hotel in San Francisco, California

Table 1 Meeting Attendees

Italics indicate virtual participants

Co-Chairs: Jack Ghiselli (Ghiselli Consulting), Lance Rist (Industry Consultant)

SEMI Staff: Paul Trio

<i>Company</i>	<i>Last</i>	<i>First</i>	<i>Company</i>	<i>Last</i>	<i>First</i>
Applied Materials	Flores	Robert	IT Innovation	Kim	Won Tae
Cimetrix	Rubow	Brian	PEER Group	McKenzie	Alison
Edwards	Czerniak	Michael	SEMATECH	Ferrell	Jackie
Ghiselli Consulting	Ghiselli	Jack	Tokyo Electron	Sakamoto	Mitch
Hitachi-Kokusai	Matsuda	Mitsuhiro	Tokyo Electron	Asakawa	Terry
Industry Consultant	Rist	Lance	SEMI	Amano	James
ISMI	Crispieri	Gino	SEMI	Trio	Paul

Table 2 Leadership Changes

<i>Group</i>	<i>Previous Leader</i>	<i>New Leader</i>
NA I&C Committee	David Bricker (Applied Materials) stepped down as committee co-chair.	Brian Rubow (Cimetrix) was appointed as committee co-chair. <i>(To be formally appointed by the North America Regional Standards Committee [NARSC] at SEMICON West 2013)</i>
Energy Saving Equipment Communication (ESEC) Task Force	Dan Chlus (IBM/SEMATECH) stepped down as TF co-leader.	Gino Crispieri (ISMI) was appointed as TF co-leader.
GEM300 Task Force	David Bricker (Applied Materials) stepped down as TF co-leader.	Gino Crispieri (ISMI) was appointed as TF co-leader.

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 1, 2013 Voting Period ***		
5511	Reapproval of SEMI E54.20, Standard for Sensor/Actuator Network Communications for EtherCAT	Passed as balloted. Superclean
*** Cycle 2, 2013 Voting Period ***		
5274A	Revision to Add a New Subordinate Standard Specification for Sensor/Actuator Network Specific Device Model of a Generic Equipment Add-On Sensor (ADDON) to SEMI E54-0710, Sensor/Actuator Network Standard	Failed , to be reballoted
5411A	New Standard: Specification for Equipment Energy Saving Mode Communications (EESM)	Failed , to be reballoted
5452A	Line Item Revisions to SEMI E134-0710, Specification for Data Collection Management and SEMI E134.1-0710, Specification for SOAP Binding of Data Collection Management (DCM)	
Line Item 1	Clarify conditionValue for Start Triggers and Stop Triggers	Passed as balloted.
Line Item 2	Clarify InvalidExceptionRequest for an isDuplicate special case	Passed with editorial changes.
5453	Revision to Add a New Subordinate Standard: Specification for SECS-II Protocol for Equipment Energy Saving Mode to SEMI Draft Document 5411A, New Standard: Specification for Equipment Energy Saving Mode Communications (EESM)	Failed , to be reballoted
5454A	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)	
Line Item 1	Modifications to the Definition of Alarms and Alarm Category Definitions	Failed , to be reballoted
5509	Line Item Revision to SEMI E94-0312, Specification for Control Job Management	
Line Item 1	Clarify the entry for OutputRule in Table 2	Failed , to be reballoted
5510	Line Item Revision to SEMI E157-0611, Specification for Module Process Tracking. Modifications to sections in the standard to clarify its content	
Line Item 1	Pre- and Post-processing Requirement	Failed , to be reballoted

Table 4 Authorized Activities

#	Type	SC/TF/WG	Details
5507	Revised SNARF	Diagnostic Data Acquisition (DDA) TF	<p>Revisions to:</p> <ul style="list-style-type: none"> - SEMI E120, Specification for the Common Equipment Model (CEM), - SEMI E120.1, XML Schema for the Common Equipment Model (CEM), - SEMI E125, Specification for Equipment Self Description (EqSD), - SEMI E125.1, Specification for SOAP Binding for Equipment Self Description (EQSD), - SEMI E128, Specification for XML Message Structures, - SEMI E132, Specification for Equipment Client Authentication and Authorization - SEMI E132.1, Specification for SOAP Binding for Equipment Client Authentication and Authorization (ECA), - SEMI E134, Specification for Data Collection Management - SEMI E134.1, Specification for SOAP Binding of Data Collection Management (DCM), - SEMI E138, XML Semiconductor Common Components - SEMI E145, Classification for Measurement Unit Symbols in XML - SEMI E164, Specification for EDA Common Metadata <p>SNARF revisions made to include clarifications to exception criteria in E134. Also, changes to recognize Complementary Files and Various Materials will be made.</p>
5589	SNARF	GEM300 TF	<p>Revisions to:</p> <ul style="list-style-type: none"> - SEMI E30, Generic Model for Communications and Control of Manufacturing Equipment (GEM), - SEMI E30.1, Inspection and Review Specific Equipment Model (ISEM), - SEMI E82, Specification for Interbay/Intrabay AMHS SEM (IBSEM), - SEMI E88, Specification for AMHS Storage SEM (Stocker SEM), - SEMI E91, Specification for Prober Specific Equipment Model (PSEM), - SEMI E122, Standard for Tester Equipment Specific Equipment Model (TSEM), & - SEMI E123.1, Specification for SECS-II Protocol for Handler Specific Equipment Model (HSEM)

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

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

Table 5 Authorized Ballots

#	When	SC/TF/WG	Details
5274B	Cycle 3, 2013 (or C4-13)	Sensor Bus TF	New SEMI E54 Subordinate Standard: Specification for Sensor/Actuator Network Specific Device Model for Generic Equipment add-on Sensor (ADDON)
5411B	Cycle 3, 2013 (or C4-13)	Energy Saving Equipment Communication TF	New Standard: Specification for Equipment Energy Saving Mode Communications (EESM)
5453A	Cycle 3, 2013 (or C4-13)	Energy Saving Equipment Communication TF	New Standard: Specification for SECS-II Protocol for Equipment Energy Saving Mode Communications <i>Note: This activity will result in a subordinate standard under the "Specification for Equipment Energy Saving Mode Communications" (SNARF #5411B)</i>
5454B	Cycle 3, 2013 (or C4-13)	GEM300 TF	Line Item Revisions to SEMI E30, Generic Equipment Model (GEM) Standard and SEMI E5, SEMI Equipment Communications Standard 2 Message Content (SECS-II)
5509A	Cycle 4, 2013	GEM300 TF	Revision to SEMI E94, Specification for Control Job Management
5510A	Cycle 4, 2013	GEM300 TF	Revision to SEMI E157, Specification for Module Process Tracking
5589	Cycle 4, 2013	GEM300 TF	Revisions to: - SEMI E30, Generic Model for Communications and Control of Manufacturing Equipment (GEM), - SEMI E30.1, Inspection and Review Specific Equipment Model (ISEM), - SEMI E82, Specification for Interbay/Intrabay AMHS SEM (IBSEM), - SEMI E88, Specification for AMHS Storage SEM (Stocker SEM), - SEMI E91, Specification for Prober Specific Equipment Model (PSEM), - SEMI E122, Standard for Tester Equipment Specific Equipment Model (TSEM), & - SEMI E123.1, Specification for SECS-II Protocol for Handler Specific Equipment Model (HSEM)

Table 6 New Action Items

Item #	Assigned to	Details
2013Apr #01	Paul Trio	Send copy of SNARF #5589 to the I&C GCS.
2013 Apr #02	NA I&C Co-chairs	Contact Sort Map TF leaders and determine whether the TF wishes to remain chartered or disband.
2013Apr #03	Paul Trio	Request NARSC to approve Brian Rubow (Cimetrix) as the new NA I&C co-chair.
2013Apr #04	Mitsuhiro Matsuda	Discuss 5-Year Review of SEMI E147 with Mitch Sakamoto and report at the next NA I&C meeting.

Table 7 Previous Meeting Actions Items

Item #	Assigned to	Details	Status
2012Oct #02	Paul Trio	Draft SNARF and ballot proposal for E30 revision (reorganization of introductory sections) and send to GEM300 TF leaders for review.	Open



1 Welcome, Reminders, and Introductions

Jack Ghiselli, committee co-chair, called the meeting to order at 8:15 AM. After welcoming all attendees, a round of introductions followed. The SEMI meeting reminders on membership requirements, antitrust, patentable technology, and meeting guidelines were then presented and explained.

Attachment: 01, SEMI Standards Required Meeting Elements

2 Review of Previous Meeting Minutes

The committee reviewed the minutes of the previous meeting held October 31 in conjunction with the NA Standards Fall 2012 meetings.

Motion: Accept the minutes of the previous meeting as written.

By / 2nd: Gino Crispieri (ISMI) / Lance Rist (Industry Consultant)

Discussion: None

Vote: 8-0 in favor. Motion passed.

Attachment: 02, NA I&CC Fall 2012 meeting (October 31) minutes

3 Liaison Reports

3.1 SEMI Staff Report

Paul Trio (SEMI) gave the SEMI Staff Report. The key items were as follows:

- 2013 Global Calendar of Events
 - SEMICON Singapore (May 7-9, Marina Bay Sands)
 - SEMICON Russia (June 5-6, Moscow)
 - Intersolar Europe (June 19-21; Munich, Germany)
 - Intersolar NA (July 8-11; San Francisco, California)
 - SEMICON West (July 9-11, San Francisco, California)
 - SEMICON Taiwan (September 4-6, Taipei)
 - SEMICON Europa (October 8-10; Dresden, Germany)
 - PE2013 – Plastic Electronics Exhibition and Conference (October 8-10; Dresden, Germany)
- NA Standards Spring 2013 Meetings
 - Committees meeting at SEMI Headquarters (San Jose)
 - 3DS-IC | EHS | Facilities & Gases | HB-LED | Information & Control | Liquid Chemicals | MEMS/NEMS | Metrics | PIC (TC only) | PV/PV Materials | Traceability
 - SEMI thanks Intel (Santa Clara) for hosting the PIC (TFs only) and Silicon Wafer meetings
- Upcoming NA Meetings
 - NA Compound Semiconductor Materials Committee (May 15 in conjunction with CS MANTECH; New Orleans, Louisiana)
 - NA Standards Meetings at SEMICON West (July 8-11; San Francisco Marriott Marquis Hotel in San Francisco, California)
- Technical Ballot Critical Dates for SEMICON West 2013 Meetings
 - Cycle 3: due April 17 / May 1 – May 31
 - Cycle 4: due May 20 / June 1 – July 1
- Revised SEMI Standards Regulations (March 2013 Revision)
 - Major Items Included in this Revision:
 - Addition of a new category called Complementary File.



- Its relationship to other types of material explicitly related to a Standard or Safety Guideline is presented in the following table.

TYPES OF OTHER PUBLISHED INFORMATION WITH AN EXPLICIT RELATIONSHIP TO A STANDARD OR SAFETY GUIDELINE		Relationship to Standard or Safety Guideline	
		Official Part	Not Official Part
How Published	Conjoined to S or SG	Appendix	Related Information
	Not conjoined to S or SG and not in .pdf	Complementary File	Various Materials

Required Actions by TC Chapters

- TC Chapters must take action on Standards that reference files in formats other than pdf (e.g., XML schema, WDSL, xls)
- All non-pdf files published prior to March 2013 Regulations are Various Materials.
- TC Chapters must decide if non-pdf files are required for implementation of the Standard, and if so, TC Chapter must issue a ballot to make the non-pdf files “Complementary Files”.

Recommended New Complementary File Wording:

7 XML Schema

7.1 The XML schema defined by this Specification is contained in a separate Complementary File named.

E120-1-V0310-CFSchema1.xsd*

7.2 That Complementary File is an official part of, and accompanies, this Specification.

* suggestions for file naming convention welcome

Recommended New Various Materials Wording:

2 Scope

2.1 This structure only defines the data format for the transmitted file. No particular database or programming language is specified by this Standard, except that optional implementations for order and results in Extensible Markup Language (XML) format will be published on the Standards Web site for those that choose to use them. The data file is to be transmitted as a UTF-8 file. As such, it is compatible with the SECS-II standard.

2.1.1 The optional XML schema provided by this Standard are contained in separate Various Materials named:

XML Schema for SEMI P10-1112 VM1Order.xsd*

XML Schema for SEMI P10-1112 VM2Results.xsd*

2.1.2 These Various Materials are not an official part, but accompany, this Specification. Use of these Various Materials is optional and is not required for compliance with this Specification.

* suggestions for file naming convention welcome

Minor Items in Regulations revision:

- Some editorial changes have been made for improved clarity and better consistency with the Procedure Guide and Style Manual
 - Clarifying the voting/nonvoting designations for members of committees
 - Defining MR as the acronym for Minority Report
 - Defining Program as shorthand for SEMI Standards Program
- Procedure Guide Revision (March 2013)
 - Revision for consistency with the revised Regulations changes.
 - The PG revision also included:
 - Definition of Complementary Files
 - Addition of TFOF as Appendix 2
 - Addition of recommendation for author and/or the TF leader to distribute draft ballot to all TF members 7 days prior to Letter Ballot submission.
 - Goal is to establish TF consensus. Can also be done via TF meeting that all members were notified of.
- Revised SEMI Standards Regulations (November 2012 Revision)

Major Items Included in this Revision:

- Global TC Structure (RTC/LTC to TC Chapters under a Global Technical Committee)
 - All regional and local technical committees become chapters of a global technical committee and have equal standing and responsibilities with regard to their functions in it, regardless of their administrative tie with a RSC
- Formation and Disbandment of Global Technical Committee
- Formation and Disbandment of TC Chapter under existing Global Technical Committee
- Elimination of Regional Standards
- IP Section (§ 15)
 - Exit mechanism from LOA in limbo
 - Clarification and additional guidance on Letter of Intent (LOI)
 - Restructuring the section in chronological order
 - From approval of activity to discovery after publication
- Redefine Supplementary Materials
 - Remove Appendices from “Supplementary Materials”
 - Redefine “Other Supplementary Materials” as “Various Materials”
 - Not official content of the Standard or Safety Guideline
 - Part of a standard but is published separately
- Miscellaneous Items
 - Response to NARSC re: clarification of “published”
 - (§ 8.3.2.2) and voting by interest (§ 7.2.3)

Minor Items:

- Add definitions to the Regs from PG (or create definition in the Regs)
- Consistent use of terms such as SEMI Standards Program, Standards Document
- Updated section and paragraph references
- Numerous editorial changes



- Future Tasks for the ISC Regulations Subcommittee
 - Virtual Meetings
 - Identify key concerns/issues
 - infrastructure, language, approval process.
 - Benchmark other SDOs
 - Official Liaisons with other SDOs
 - D liaisons for IEC and ISO
 - Redefine Interest Categories of TC Members
 - Currently based on IC, include PV/FPD/MEMS
 - Inclusion of regulatory requirement in SEMI Standards / Safety Guidelines
- Standards Publications Report
 - January 2013 Cycle
 - New Standards – 9, Revised Standards – 3, Reapproved Standards – 0, Withdrawn Standards – 0
 - February 2013 Cycle
 - New Standards – 0, Revised Standards – 8, Reapproved Standards – 0, Withdrawn Standards – 0
 - March 2013 Cycle
 - New Standards – 0, Revised Standards – 3, Reapproved Standards – 2, Withdrawn Standards – 0, Total in portfolio – 871 (includes 93 Inactive Standards)
- Global Activity Report (*details provided in the report*):
 - Current task forces
 - Active SNARFs
 - By Region
 - By Region, SNARF type (e.g., New Standard, Revision, Reapproval)
 - Ballots
 - By Region, year (2011, 2012, 2013 [YTD])
 - By Region, ballot type (e.g., New Standard, Revision, Reapproval)
 - By Committee
- Standards Usage Interview
 - Looking for details on how standards are actually used:
 - Development/Engineering
 - Procurement
 - Manufacturing
 - Interview should take less than 30 minutes – contact James or any Standards staff
- The Official SEMI Standards LinkedIn Group
 - <http://www.linkedin.com/groups/Official-SEMI-Standards-Group-1774298/about>

Attachment: 03, SEMI Standards Staff Report

3.2 Europe Equipment Automation Committee (Information & Control, Metrics, Physical Interfaces & Carriers)

Paul Trio presented the Europe I&C liaison report. The key items were as follows:

- Disbanded Task Forces
 - Integrated Measurement TF, SANPro TF

Attachment: 04, Europe Liaison Report

3.3 Japan Information & Control Committee

Mitsuhiro Matsuda presented the Japan I&C liaison report. The key items were as follows:

- Leadership Changes
 - Yuko Toyoshima (Hitachi High-Technologies) was appointed co-leader of the Predictive Carrier Logistics (PCL) Task Force.
- Document Review Summary (Japan Standards Winter Meetings/SEMICON Japan 2012)
 - Document 5423 [Line-item Revision to SEMI E40.1-0312, *SECS-II Support for Processing Management Standard* and SEMI E5-0712, *SEMI Equipment Communications Standard 2 Message Content (SECS-II)*; Add mapping to PPID for RecID] failed committee review and was sent back to TF for rework.
- Approved SNARFs
 - #5538 – New Standard: Specification for Production Recipe Cache mechanism to Be Used for Production Recipe Protection and Synchronization between Factory System and Equipment [GEM300 TF]
- Revised SNARFs
 - #5367 – Line item revision to SEMI E87, Specification for Carrier Management (CMS). Load Port Transfer Error Indication.
- Upcoming ballots to be reviewed at Japan Spring 2012 Meetings
 - #5422 – New Standard: Guide for Equipment Information System Security [EISS TF]
 - #5423A – Line-item Revision to SEMI E40.1-0312 SECS-II Support for Processing Management Standard and SEMI E5-0712 SEMI Equipment Communications Standard 2 Message Content (SECS-II); Add mapping to PPID for RecID [GEM300 TF]
- GEM300 TF
 - Collaboration with NA GEM300 TF
 - #5454 “Revisions to SEMI E30” Alarm Category
 - #5508 “Revisions to SEMI E5, E90 and E90.1” Batch Object
- Predictive Carrier Logistics (PCL) TF
 - Kick-off meeting: November 15 (SEMI Japan office)
 - Ballot submission for #5486 (*New Standard: Specification for Predictive Carrier Logistics Information from Equipment to be used for Predictive Carrier Logistics Management*), previously scheduled for Cycle 2, has been postponed.
- Japan I&CC 2013 Meeting Schedule
 - Spring in April
 - Summer in June
 - Fall in September
 - Winter in December
- Next meeting: April 10 at SEMI Japan Office (Tokyo)

Attachment: 05, Japan I&C Liaison Report

3.4 Korea Information & Control Committee

Paul Trio presented the Korea I&C liaison report. The key items were as follows:

- Next meeting: April 19, 2013 at SEMI Korea Office (Seoul)
- Major Updates
 - Reviewed Ballot (Cycle 7)
 - 5320A (E116 Revision, Equipment Performance Tracking) – Failed
 - Authorized Ballot
 - Cycle 2-13 (*Adjudication on April 19)
 - 4946A (E87 Revision, Specification for Carrier Management (CMS))
 - 5386A (E94 Revision, Specification for Control Job Management, Enhancement of Material Redirection Mode)
 - Cycle 3-13 (*Adjudication schedule: TBD)
 - 5320B (E116 Revision, Equipment Performance Tracking)
 - Approved Activities
 - None

Attachment: 06, Korea I&C Liaison Report

3.5 Taiwan Information & Control Committee

No 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 Cycles 1 and 2 ballots are detailed in the Audits & Reviews (A&R) Subcommittee Forms for procedural review. These A&R forms are available as attachments to these minutes. The attachment number for each document is provided below the summary tables.

4.1 Cycle 1 Ballots

Document #	Document Title	Committee Action
5511	Reapproval of SEMI E54.20, Standard for Sensor/Actuator Network Communications for EtherCAT	Passed as balloted. Superclean

4.2 Cycle 2 Ballots

Document #	Document Title	Committee Action
5274A	Revision to Add a New Subordinate Standard Specification for Sensor/Actuator Network Specific Device Model of a Generic Equipment Add-On Sensor (ADDON) to SEMI E54-0710, Sensor/Actuator Network Standard	Failed , to be reballoted
5411A	New Standard: Specification for Equipment Energy Saving Mode Communications (EESM)	Failed , to be reballoted

5452A	Line Item Revisions to SEMI E134-0710, Specification for Data Collection Management and SEMI E134.1-0710, Specification for SOAP Binding of Data Collection Management (DCM)	
Line Item 1	Clarify conditionValue for Start Triggers and Stop Triggers	Passed as balloted.
Line Item 2	Clarify InvalidExceptionRequest for an isDuplicate special case	Passed with editorial changes.
5453	Revision to Add a New Subordinate Standard: Specification for SECS-II Protocol for Equipment Energy Saving Mode to SEMI Draft Document 5411A, New Standard: Specification for Equipment Energy Saving Mode Communications (EESM)	Failed , to be reballoted
5454A	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)	
Line Item 1	Modifications to the Definition of Alarms and Alarm Category Definitions	Failed , to be reballoted
5509	Line Item Revision to SEMI E94-0312, Specification for Control Job Management	
Line Item 1	Clarify the entry for OutputRule in Table 2	Failed , to be reballoted
5510	Line Item Revision to SEMI E157-0611, Specification for Module Process Tracking. Modifications to sections in the standard to clarify its content	
Line Item 1	Pre- and Post-processing Requirement	Failed , to be reballoted

Intellectual Property Related to SEMI E30:

As part of the ballot adjudication process, the committee performed the Intellectual Property (IP) Check.

Jack Ghiselli stated that when the committee performed the IP Check on ballot 5481, line item 1 (E30 revision, addition of new messages) last fall (October 31, NA Fall 2012 Meetings), he previously reported that E30 references “SML” (SECS Message Language), a copyrighted term believed to be currently owned by PEER Group. Jack explained that he misspoke and meant to report that SML was a trademarked term believed to be owned by PEER Group, not copyright.

At this meeting (NA I&C Spring 2013), the attendees were then asked if they were aware of any other potentially material patented technology or copyrighted items. Alison McKenzie reported that SML notation is copyrighted by PEER Group.

Paul Trio stated that, per the SEMI Standards Regulations, the committee will need to assess whether the copyrighted item has been reproduced in the Document. If so, the committee will then need to decide if the reproduction is justified on technical grounds.

The committee discussed two possible approaches:

- Verify the presence of copyrighted content in E30, or
- Remove SML references (§ 8.4.3 and Table 12, SML Notation) in E30

James Amano stated that PEER Group will need to provide information/evidence of E30 content that is copyrighted by PEER Group. Once the committee has this information, the assessment can be made per the Regulations. In the meantime, the publication of ballot 5481 changes will be held.

With regard to removing SML-related content in E30, Gino Crispieri pointed out that E5 has a similar table that can be swapped with the one found in E30. Lance Rist responded that even the suggestion of using propriety content is not recommended by this committee. Lance also pointed out that while removing SML-related content from E30 would address the issue with the Standard, it does not eliminate the problem for companies that use SML/SML Notation. Jack Ghiselli added that SML has been used in the industry for many years.



Alison McKenzie stated that the opportunity should be provided for PEER Group and SEMI to further discuss this matter (including the Regulations processes/requirements). Alison pointed out that PEER Group had already requested SEMI to have this discussion and was waiting for SEMI's response.

Brian Rubow stated that, in the meantime, the GEM300 TF will submit a SNARF to remove SML-related content in E30 (see section 5.3 of these minutes).

Attachment: 07, Ballot Review for Doc. 5511
08, Ballot Review for Doc. 5274A
09, Ballot Review for Doc. 5411A
10, Ballot Review for Doc. 5452A
11, Ballot Review for Doc. 5453
12, Ballot Review for Doc. 5454A
13, Ballot Review for Doc. 5509
14, Ballot Review for Doc. 5510

5 Task Force Reports

5.1 *Diagnostic Data Acquisition (DDA) Task Force*

Brian Rubow reported for the DDA Task Force. The key items were as follows:

- Attendance: 10 in person
- Ballot Activity Summary
 - Unresolved Ballots
 - 5507
 - Ballot Adjudication This Week
 - 5452A
 - New/Modified SNARF(s)
 - Modification to 5507
- Revised SNARF:
 - SNARF revisions include changes to the list of Standards being revised as well as updates to the rationale, scope, and timeline information sections.
 - 5507 - Revisions to:
 - SEMI E120, Specification for the Common Equipment Model (CEM),
 - SEMI E120.1, XML Schema for the Common Equipment Model (CEM),
 - SEMI E125, Specification for Equipment Self Description (EqSD),
 - SEMI E125.1, Specification for SOAP Binding for Equipment Self Description (EQSD),
 - SEMI E128, Specification for XML Message Structures,
 - SEMI E132, Specification for Equipment Client Authentication and Authorization
 - SEMI E132.1, Specification for SOAP Binding for Equipment Client Authentication and Authorization (ECA),
 - SEMI E134, Specification for Data Collection Management
 - SEMI E134.1, Specification for SOAP Binding of Data Collection Management (DCM),
 - SEMI E138, XML Semiconductor Common Components
 - SEMI E145, Classification for Measurement Unit Symbols in XML



SEMI E164, Specification for EDA Common Metadata

- **Purpose:** Members of the DDA Task Force have reported several issues in the EDA Standards that should be resolved.
 1. In E132, please set an expected response time for host-initiated SessionPing messages.
 2. In E132, define what is meant by closing a session when “communication errors” are detected.
 3. In E138, fix the error in Figure 4, correct the aggregation of Arr to PVType.
 4. In E132, explicitly allow simultaneous E132 admin session & operator console access.
 5. In E132, define the syntax for other standards to define privileges.
 6. In E128, clarify equipmentId definition in the From/To header versus the name of the EquipmentElement in CEM
 7. In E128, clarify what should the E132Header contain in the "SessionID" field during the EstablishSessionRequest/EnhancedEstablishSessionRequest.
 8. In E120, clarify the definition of Module.
 9. In E120, clarify how a multi-purpose module should be modeled.
 10. In E120, reword the second sentence in section 8.5.4.2.2.
 11. In E125.1, update the related information to use E164 compliant names.
 12. In E125, modify section 10.6.3.2.1.1 text to clarify use of the top state name.
 13. In E125, correct the type conflict between the .0 and .1 standards regards, SECS-ALID, SECS-SetCEID, SECS-ClearCEID, and SECS-VID.
 14. In E125, remove the reference to the non-existent DefinedType class in 10.5.2.
 15. In E125, clarify use the SEMIObject attributes in Tables 48 and 49.
 16. In E125, prohibit two StateMachineInstances on the same node with the same StateMachineId.
 17. In E125, Figure 15, it shows "0..*" for stateMachineInstance relationship which conflicts with the schema.
 18. The ballot may include other Editorial Changes in these standards which are reported during the ballot creation.
 19. In E134, the exception concept of exception criteria in an exception request will be clarified.
 20. In E120.1, E125.1, E132.1, E134.1, E128, E138, E145, E164, all previous called Supplementary files will be re-balloted as “Complementary Files” and “Various Materials”.
- **Scope:**
 - Minor and technical changes will be made to these standards. Changes to recognize Complementary Files and Various Materials will be made.
 - The names and contents of the schema or WSDL files will not be changed in order to allow any changes to be adopted without creating incompatibility with the ISMI Freeze version 2 compliant EDA clients.

Motion: Approve revisions to SNARF #5507
By / 2nd: Lance Rist (Industry Consultant) / Gino Crispieri (ISMI)
Discussion: None
Vote: 8-0 in favor. Motion passed.

Attachment: 15, Diagnostic Data Acquisition Task Force Report

5.2 Energy Saving Equipment Communication Task Force

Gino Crispieri reported for the Energy Saving Equipment Communication Task Force. The key items were as follows:

- Attendance: 12 in person, 3 remote
- Leadership Changes
 - Dan Chlus (IBM) stepped down as TF co-leader.
 - Gino Crispieri appointed as new TF co-leader (see section 6 of these minutes)
- Ballot Plans
 - 5411B and 5453A for Cycle 3 or 4, 2013

Attachment: 16, Energy Saving Equipment Communication Task Force Report

5.3 GEM300 Task Force

Brian Rubow reported for the GEM300 Task Force. The key items were as follows:

- Attendance: 14 in person
- Leadership Changes
 - David Bricker (Applied Materials) stepped down as TF co-leader.
 - Gino Crispieri appointed as new TF co-leader (see section 6 of these minutes)
- New SNARFs:
 - 5589 – Revisions to:
 - SEMI E30, Generic Model for Communications and Control of Manufacturing Equipment (GEM),
 - SEMI E30.1, Inspection and Review Specific Equipment Model (ISEM),
 - SEMI E82, Specification for Interbay/Intrabay AMHS SEM (IBSEM),
 - SEMI E88, Specification for AMHS Storage SEM (Stocker SEM),
 - SEMI E91, Specification for Prober Specific Equipment Model (PSEM),
 - SEMI E122, Standard for Tester Equipment Specific Equipment Model (TSEM), &
 - SEMI E123.1, Specification for SECS-II Protocol for Handler Specific Equipment Model (HSEM)
 - Rationale: The E30 publication indicates that SECS Message Language™ is trademarked, and that SML® a registered trademark. The PEER Group has made it known to the I&CC that “SML Notation” is copyrighted. SML and SML Notation are not necessary to be used. In order to avoid potential controversy related to the copyrighted material and follow SEMI’s policy to avoid copyrighted material in the standards, all references to SML and SML Notation will be removed from SEMI E30 and related SEMI Standards.
In E5, MaterialFormat needs a new process tray enumeration for use within SEMI E40 Process Job definitions.
 - Scope: References and content related to “SML” and “SML Notation” will be removed from: E30, E30.1, E82, E88, E91, E122, E123.1.



Motion: Approve SNARF for *Revisions to:*
SEMI E30, Generic Model for Communications and Control of Manufacturing Equipment (GEM),
SEMI E30.1, Inspection and Review Specific Equipment Model (ISEM),
SEMI E82, Specification for Interbay/Intrabay AMHS SEM (IBSEM),
SEMI E88, Specification for AMHS Storage SEM (Stocker SEM),
SEMI E91, Specification for Prober Specific Equipment Model (PSEM),
SEMI E122, Standard for Tester Equipment Specific Equipment Model (TSEM), &
SEMI E123.1, Specification for SECS-II Protocol for Handler Specific Equipment Model (HSEM)

By / 2nd: Brian Rubow (Cimetrix) / Won Tae Kim (IT Innovation)

Discussion: None.

Vote: 6-1 in favor. Motion passed.

- Ballot Plans:
 - 5509A (E94 revision, clarify OutputRule), 5510A (E157 revision, pre- and post-processing requirement), and 5589 will be submitted for C4-13

Action Item: 2013Apr #01, Paul Trio to send a copy of SNARF #5589 to the I&C GCS.

Attachment: 17, GEM300 Task Force Report

5.4 Process Control System (PCS) Task Force

No updates.

5.5 Sensor Bus Task Force

No updates.

5.6 Sort Map Task Force

No updates.

Action Item: 2013Apr #02, NA I&C Co-chairs to contact Sort Map TF leaders and determine whether the TF wishes to remain chartered or disband.

6 Leadership Changes

<i>Group</i>	<i>Previous Leader</i>	<i>New Leader</i>
NA I&C Committee	David Bricker (Applied Materials) stepped down as committee co-chair.	Brian Rubow (Cimetrix) was appointed as committee co-chair. <i>(To be formally appointed by the North America Regional Standards Committee [NARSC] at SEMICON West 2013)</i>
Energy Saving Equipment Communication (ESEC) Task Force	Dan Chlus (IBM/SEMATECH) stepped down as TF co-leader.	Gino Crispieri (ISMI) was appointed as TF co-leader.
GEM300 Task Force	David Bricker (Applied Materials) stepped down as TF co-leader.	Gino Crispieri (ISMI) was appointed as TF co-leader.



Motion: Approve NA I&C leadership changes (as shown above)
By / 2nd: Jack Ghiselli (Ghiselli Consulting) / Won Tae Kim (IT Innovation)
Discussion: None.
Vote: 8-0 in favor. Motion passed.

Action Item: 2013Apr #03, Paul Trio to request NARSC to approve Brian Rubow (Cimetrix) as the new NA I&C co-chair.

7 Old Business

7.1 Completed action items from previous meeting:

<i>Item #</i>	<i>Assigned to</i>	<i>Details</i>	<i>Status</i>
2012Oct #01	Paul Trio	Contact Alison McKenzie to assist in requesting PEER Group for a copyright release letter for the use of SECS Message Language (SML) in SEMI E30.	Done. Closed
2012Oct #02	Paul Trio	Draft SNARF and ballot proposal for E30 revision (reorganization of introductory sections) and send to GEM300 TF leaders for review.	Open Paul to prepare ballot draft to submit to GEM300 TF leaders for review and further edits by SEMICON West. Target ballot submission for Cycle 5 or 6
2012Oct #03	Paul Trio	Submit E30 revision (reorganization of introductory sections) SNARF and ballot proposal to the I&C GCS for approval.	Done. Closed SNARF approved by GCS. See Action Item # 2012Oct#02 for ballot plan.

8 New Business

8.1 I&C Standards due for 5-Year Review

<i>Designation #</i>	<i>Document Title</i>	<i>Status/Committee Action</i>
Sensor Bus TF		
SEMI E54.9-0708	Specification for Sensor/Actuator Network Communication for Modbus/TCP Over TCP/IP	Open. TF contacting organization to determine action plan.
SEMI E54.15-1107	Sensor/Actuator Network Communication Specification for SafetyBUS p	Open. TF contacting organization to determine action plan.
SEMI E54.19-0308	Specification for Sensor/Actuator Network for MECHATROLINK	To be addressed by Japan I&CC.
GEM300 TF		
SEMI E30.1-0309	Inspection and Review Specific Equipment Model (ISEM)	To be revised by SNARF #5589.
DDA TF		
SEMI E147-0307E	Guide for Equipment Data Acquisition (EDA)	Open. Action Item generated. See below.
I&C Committee		
SEMI E127-0308	Specification for Integrated Measurement Module Communications: Concepts, Behavior, and Services (IMMC)	Open. James Moyne to discuss action plan with IMA and report at the next meeting.
SEMI E127.1-0308	Specification for SECS-II Protocol for Integrated Measurement Module Communications (IMMC)	Open. James Moyne to discuss action plan with IMA and report at the next meeting.



Action Item: 2013Apr #04, Mitsuhiro Matsuda to discuss 5-Year Review of SEMI E147 with Mitch Sakamoto and report at the next NA I&C meeting.

8.2 *New Ballot Submission Summary*

Paul Trio reviewed the TFOFs, SNARFs, and letter ballot submission information presented to the committee for approval. These can be found in the Authorized Ballots and Authorized Activities tables (Table 4 and Table 5, respectively) at the beginning of these minutes.

Motion: Approve all SNARFs, TFOFs, and letter ballots (as presented in tables 4 and 5 above)

By / 2nd: Jack Ghiselli (Ghiselli Consulting) / Gino Crispieri (ISMI)

Discussion: With the Cycle 4 voting period deadline being very close to the SEMICON West meetings, Mitsuhiro Matsuda (Hitachi-Kokusai) asked Paul Trio/SEMI staff to do what they can so these ballots reach 60%.

Vote: 8-0 in favor. Motion passed.

9 Action Item Review

9.1 *Open Action Items*

Paul Trio (SEMI) reviewed the open action items. These can be found in the Open Action Items table at the beginning of these minutes.

9.2 *New Action Items*

Paul Trio (SEMI) 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 North America Information & Control committee is scheduled for Wednesday, July 10 in conjunction with SEMICON West 2013. The tentative schedule is provided below:

North America Standards Meetings at SEMICON West 2013
July 8-11, 2013
San Francisco Marriott Marquis Hotel
55 Fourth Street
San Francisco, California 94103



Monday, July 8

- I&C Leadership (9:00 AM – 10:00 AM)
- GEM300 Task Force (10:00 AM – 5:00 PM)
- Process Control Systems [PCS] Task Force (1:00 PM – 3:00 PM)
- I&C Global Coordinating Subcommittee [GCS] (5:00 PM to 6:00 PM)

Tuesday, July 9

- Diagnostic Data Acquisition [DDA] Task Force (8:00 AM – 12:00 Noon)
- Sensor Bus Task Force (1:00 PM – 3:00 PM)
- Discussion on Japan EISS TF Activity (1:00 PM – 3:00 PM)
- Energy Saving Equipment Communication [ESEC] Task Force (3:00 PM – 6:00 PM)
- Sort Map Task Force (3:00 PM to 5:00 PM)

Wednesday, July 10

- I&C Committee (8:00 AM – 4:30 PM)

Having no further business, a motion was made to adjourn the NA I&C Committee meeting on April 3 in conjunction with the NA Standards Spring 2013 meetings in San Jose, California. Adjournment was at 2:10 PM.

Respectfully submitted by:

Paul Trio
Senior Manager, Standards Operations
SEMI North America
Phone: +1.408.943.7041
Email: ptrio@semi.org

Minutes approved by:

Jack Ghiselli (Ghiselli Consulting), Co-chair	May 28, 2013
Lance Rist (Industry Consultant), Co-chair	May 24, 2013

Table 8 Index of Available Attachments ^{#1}

#	Title	#	Title
1	SEMI Standards Required Meeting Elements	10	Ballot Review for Doc. 5452A
2	NA I&CC Fall 2012 (October 31) meeting minutes	11	Ballot Review for Doc. 5453
3	SEMI Standards Staff Report	12	Ballot Review for Doc. 5454A
4	Europe Liaison Report	13	Ballot Review for Doc. 5509
5	Japan I&C Liaison Report	14	Ballot Review for Doc. 5510
6	Korea I&C Liaison Report	15	Diagnostic Data Acquisition Task Force Report
7	Ballot Review for Doc. 5511	16	Energy Saving Equipment Task Force Report
8	Ballot Review for Doc. 5274A	17	GEM300 Task Force Report
9	Ballot Review for Doc. 5411A		

#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 Paul Trio at the contact information above.