

# Record of Line-item Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **North America**

Global Technical Committee: **Information & Control**

TC Chapter Cochairs: **Brian Rubow/Cimetrix, Albert Fuchigami/PEER Group, Jack Ghiselli/Ghiselli Consulting, James Moyne/AMAT/University of Michigan**

Standards Staff: **Michelle Sun**

	Scheduled in Background Statement	Actual
Date	3/27/2024	3/27/2024
Location	SEMI HQ/Milpitas	SEMI HQ/Milpitas
Reason for Change of Date and/or Location (if changed)		

Note: See *Regulations* ¶ 9.5 Exceptions for allowable reason to change.

## Document Information

### I. Document Number, Title, Lists of Line Items

<b>Document Number</b> 7175		<b>Document Title</b> Line Item Revision to SEMI E132-0923 Specification for Equipment Client Authentication and Authorization and SEMI E132.2-0923 Specification for Protocol Buffers for Equipment Client Authentication and Authorization (ECA)
<b>List of Line Items</b>	Line Item 1	<b>Line Item Title</b> Address issues in the primary and subordinate standards and .proto files.
	Line Item 2	<b>Line Item Title</b> Define configuration switch to treat operational message delivery error as SEMI E132 Communication Errors.

## Line Item 1 Adjudication

### II. Tally

Standards staff to fill in.

Voting Tally: **As-cast tally after close of voting period**

**Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (Regulations ¶ 9.6.2.1.1)**

**Voting Tally (with example values):**

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	80	÷ 133	= 60.2%	≥60%
Intercommittee Ballot	43			
Voting Interest Reject(s)	1	Total Voters with Rejects		1
Voting Interest Accept(s)	48			

**Note: See Regulations § 3.2.1 for definition of Voting Interest.**

### III. Rejects

**Voting Interest Reject 1 (Voting Interest Name: Cimatrix)**

**Voter Reject 1 (Voter: Brian Rubow / Cimatrix)**

**Negative 1**

Negative	Referenced Section/ Paragraph	<b>*TF/TC Chapter to fill in, including text in the ballot if necessary.</b> 10.4.4		
	Negative Text	<b>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</b> I don't think it is appropriate to abbreviate hexadecimal as "Hex". A "hex" is a magical charm. The appears in several other places in the ballot.		
TF input (optional)				
Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection	
	<input type="checkbox"/>	Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection → (A)	
Related	Motion and Reason (check one)	<input type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
		<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)	
		Reason	XXXX	
	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)		
	Discussion			
Result of Vote (check one)	<input type="checkbox"/>	XX Y-XX N; Motion passed/failed.		
	<input type="checkbox"/>	[Negative is not related.] < 2/3	GO TO "Persuasive" subsection	
	<input type="checkbox"/>	2/3 ≤ [Negative is not related.]	GO TO "Final" subsection → (B)	
	Motion and Reason	Negative is related and persuasive. (Needs >1/3 votes to pass.)		

<b>Persuasive</b>	<b>(check one)</b>		Negative is related and not persuasive. <b>(Needs <math>\geq 2/3</math> votes to pass.)</b>			
			Reason	XXXX		
	<b>Motion by/ 2<sup>nd</sup> by</b>		Name (Company)/Name (Company)			
	<b>Discussion</b>					
	<b>Result of Vote (check one)</b>		XX Y-XX N; Motion passed/failed.			
		[Negative is related and persuasive.] > 1/3	<b>Is a technical change recommended? (check one)</b>		Y	GO TO "Address by Technical Change Option" subsection
		[Negative is related and not persuasive.] < 2/3			N	GO TO "Final" subsection → (E)
		$2/3 \leq$ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)			
		$90\% \leq$ [Negative is related and not persuasive.]	GO TO "Not Significant Finding Option" subsection			
<b>Address by Technical Change Option</b>	<b>Technical Change Recommendations</b>					
	Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.					
	1	FROM: Section/Paragraph XXX				
		TO: Section/Paragraph xxx				
		Justification (if necessary)				
	2	FROM: Section/Paragraph XXX				
		TO: Section/Paragraph xxx				
		Justification (if necessary)				
	<b>Motion</b>		Negative is addressed by the technical change(s).			
	<b>Motion by/2<sup>nd</sup> by</b>		Name (Company)/Name (Company)			
<b>Discussion</b>						
<b>Result of Vote (check one)</b>		XX Y-XX N; Motion passed/failed.				
		$2/3 \leq$ [Negative is addressed by the technical change(s).]				GO TO "Incorporation of the Technical Change" subsection
		[Negative is not addressed by the technical change(s).] < 2/3				GO TO "Final" subsection → (E)
<b>Incorporation of</b>	<b>Motion</b>		To incorporate the technical change(s).			
	<b>Motion by/2<sup>nd</sup> by</b>		Name (Company)/Name (Company)			
	<b>Discussion</b>					

		XX Y-XX N; Motion passed/failed.	
	Result of Vote (check one)	<input type="checkbox"/>	90% ≤ [Agree to incorporate.] GO TO “Final” subsection → (F)
		<input type="checkbox"/>	[Disagree to incorporate.]>10% GO TO “Final” subsection → (E)
Not Significant Finding Option	This option can be used only “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. ( <i>Regulations</i> ¶ 9.6.1.4.5.2)		
	Use of “Not significant finding option” (check one)	<input type="checkbox"/>	It is mutually agreed upon to term the Negative “not significant”. GO TO “Final” subsection → (D)
		<input type="checkbox"/>	It is mutually agreed upon to term the Negative “significant”. GO TO “Final” subsection → (C)
		<input type="checkbox"/>	Whether or not the Negative is “not significant” is decided by a vote.
	Motion	The Negative is “not significant”.	
	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)	
Vote	<input type="checkbox"/>	XX Y-XX N; Motion passed with simple majority GO TO “Final” subsection → (D)	
	<input type="checkbox"/>	XX Y-XX N; Motion failed with simple majority GO TO “Final” subsection → (C)	
Final	(check if applicable)	<input type="checkbox"/>	(A) Withdrawn (counted under h in disposition)
		<input type="checkbox"/>	(B) Not related (counted under i in disposition)
		<input type="checkbox"/>	(C) Related and not persuasive (significant)
		<input type="checkbox"/>	(D) Not significant (counted under j in disposition)
		<input type="checkbox"/>	(E) Related and persuasive and not addressed by technical change DOCUMENT FAILS
	<input type="checkbox"/>	(F) Addressed by technical change (counted under k disposition)	
(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.	

This table is needed for each Negative.

#### IV. Other Technical Issues

Note: TC Chapter may choose to address a technical issue that is not part of a Negative received on a Letter Ballot (i.e., a Comment or a reason not addressed by a Vote response) by handling it as a Negative and finding it related and technically persuasive. The TC Chapter may then fail the Document or address such technical issue by using the procedure defined in *Regulations* § 9.6.1.4.3 to make a technical change to the Document. (*Regulations* ¶ 9.6.1.4.2.5)

Technical Issue	Origin	*TF/TC Chapter to choose Comment by Mochizuki, Tadashi (TEL)
	Referenced Section/ Paragraph	*TF/TC Chapter to fill in including text in the ballot as appropriate.
		Table 36 GetEquipmentInformation Parameter Definitions
Reason	*Original Comment text, if applicable, and problem statement, including justification and suggestion, should be copied.	

		<p><b>Table 36 GetEquipmentInformation Parameter Definitions, Parameter = challengeToken</b></p> <p>Description field. About "null or an empty string" in "The value shall not be null or an empty string."  Since it is a byte array type, so it seems better to use something like "an empty array value."  <b>This is my understanding. (I also commented on it in my previous review.)</b></p>					
<p><b>Handle technical issue identified above as a Negative.</b></p>							
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Related</b></p>	<p><b>Motion and Reason (check one)</b></p>	<input checked="" type="checkbox"/>	<p>'Related' is mutually agreed upon. <b>(Needs no motion.)</b></p>			<p><b>GO TO "Persuasive" subsection</b></p>	
		<input type="checkbox"/>	<p>Negative is not related and assigned to TF. <b>(Needs ≥2/3 votes to pass.)</b></p>				
		<input type="checkbox"/>	<p>Negative is not related and placed on agenda of current TC Chapter meeting as new business. <b>(Needs ≥2/3 votes to pass.)</b></p>				
			Reason	XXXX			
		<b>Motion by/ 2nd by</b>	Name (Company)/Name (Company)				
		<b>Discussion</b>					
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Persuasive</b></p>	<p><b>Motion and Reason (check one)</b></p>	<input checked="" type="checkbox"/>	<p>Negative is related and persuasive. <b>(Needs &gt;1/3 votes to pass.)</b></p>				
		<input type="checkbox"/>	<p>Negative is related and not persuasive. <b>(Needs ≥2/3 votes to pass.)</b></p>				
			Reason	<p>The ballot changed the challengeToken parameter for the GetEquipmentInformation operation from a string data type to a byte array data type, but did not remove the corresponding description text that states the value shall not be an empty string. (an empty string is not a valid value for a byte array)</p>			
		<b>Motion by/ 2nd by</b>	<p>By: Albert Fuchigami / PEER Group Inc.  Second: Jack Ghiselli / Ghiselli Consulting</p>				
		<b>Discussion</b>	None				
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Address by</b></p>	<p><b>Result of Vote (check one)</b></p>	<p>13 Y-0 N; Motion passed.</p>					
		<input checked="" type="checkbox"/>	[Negative is related and persuasive.] > 1/3	<p><b>Is a technical change recommended? (check one)</b></p>	<input type="checkbox"/>	Y	<p><b>GO TO "Address by Technical Change Option" subsection</b></p>
		<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input checked="" type="checkbox"/>	N	<p><b>GO TO "Final" subsection → (E)</b></p>
		<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	<p><b>GO TO "Final" subsection → (C)</b></p>			
<p><b>Technical Change Recommendations</b></p> <p>Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.</p>							

Technical Changes	1	FROM: Section/Paragraph <b>XXX</b>		
		TO: Section/Paragraph <b>xxx</b>		
		Justification (if necessary)		
	2	FROM: Section/Paragraph <b>XXX</b>		
		TO: Section/Paragraph <b>xxx</b>		
		Justification (if necessary)		
Motion		Negative is addressed by the technical change(s).		
Motion by/2 <sup>nd</sup> by		Name (Company)/Name (Company)		
Discussion				
Result of Vote (check one)		XX Y-XX N; Motion passed/failed.		
		<input type="checkbox"/>	2/3 ≤ [Negative is addressed by the technical change(s).] GO TO "Incorporation of the Technical Change" subsection	
		<input type="checkbox"/>	[Negative is not addressed by the technical change(s).] < 2/3 GO TO "Final" subsection → (E)	
Incorporation of the Technical Change	Motion		To incorporate the technical change(s).	
	Motion by/2 <sup>nd</sup> by		Name (Company)/Name (Company)	
	Discussion			
	Result of Vote (check one)		XX Y-XX N; Motion passed/failed.	
			<input type="checkbox"/>	90% ≤ [Agree to incorporate.] GO TO "Final" subsection → (F)
<input type="checkbox"/>			[Disagree to incorporate.] >10% GO TO "Final" subsection → (E)	
Final	(check one)	<input type="checkbox"/>	(B) Not related	
		<input type="checkbox"/>	(C) Related and not persuasive	
		<input checked="" type="checkbox"/>	(E) Related and persuasive and not addressed by technical change DOCUMENT FAILS	
		<input type="checkbox"/>	(F) Addressed by technical change	
	(check if applicable)	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.	

## Line Item 2 Adjudication

### II. Tally

Standards staff to fill in.

Voting Tally: As-cast tally after close of voting period

Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (Regulations ¶ 9.6.2.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	80	÷ 133	= 60.2%	≥60%
Intercommittee Ballot	43			
Voting Interest Reject(s)	1	Total Voters with Rejects		1
Voting Interest Accept(s)	45			

Note: See Regulations § 3.2.1 for definition of Voting Interest.

### III. Rejects

#### Voting Interest Reject 1 (Voting Interest Name: Doople)

#### Voter Reject 1 (Voter: Hyungsu Kim / Doople)

#### Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.	
		N/A	
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.	
		<p>Operational Message Delivery Error</p> <p>1. From the client's perspective, it should be avoided that the equipment makes its judgment and terminates the session. The Session must be controlled according to the Retry Count. If you set Retry Count to 1, you can close the session right away.</p> <p>2. This message might be sent at the time of SessionPing 'Failed' as the gRPC exception metadata. However, If the Notification Recipient is configured as a consumer and Operational Recipient is not responding to SessionPing, there is no way to get the message. Where the message has to be sent?</p>	
TF input (optional)			
Withdrawal (check one)	<input type="checkbox"/>	No Negative withdrawal made by Voter.	GO TO "Related" subsection
	<input checked="" type="checkbox"/>	Withdrawal document received by Standards staff on 3/27/2024.	GO TO "Final" subsection → (A)
Related	Motion and Reason (check one)	<input type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection
		<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)
	Reason	XXXX	
Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)		

	Discussion				
	Result of Vote (check one)	XX Y-XX N; Motion passed/failed.			
		[Negative is not related.] < 2/3	GO TO "Persuasive" subsection		
		2/3 ≤ [Negative is not related.]	GO TO "Final" subsection → (B)		
Persuasive	Motion and Reason (check one)	Negative is related and persuasive. (Needs >1/3 votes to pass.)			
		Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)			
		Reason	XXXX		
	Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)			
	Discussion				
		Result of Vote (check one)	XX Y-XX N; Motion passed/failed.		
	[Negative is related and persuasive.] > 1/3		Is a technical change recommended? (check one)	Y	GO TO "Address by Technical Change Option" subsection
	[Negative is related and not persuasive.] < 2/3			N	GO TO "Final" subsection → (E)
	2/3 ≤ [Negative is related and not persuasive.] < 90%		GO TO "Final" subsection → (C)		
	90% ≤ [Negative is related and not persuasive.]		GO TO "Not Significant Finding Option" subsection		
Address by Technical Change Option	<b>Technical Change Recommendations</b>				
	Original section/paragraph number and at least one full sentence are required in "FROM" and "TO" fields.				
	1	FROM: Section/Paragraph XXX			
		TO: Section/Paragraph xxx			
		Justification (if necessary)			
	2	FROM: Section/Paragraph XXX			
		TO: Section/Paragraph xxx			
Justification (if necessary)					
Motion		Negative is addressed by the technical change(s).			
Motion by/2 <sup>nd</sup> by		Name (Company)/Name (Company)			
Discussion					



<b>Result of Vote (check one)</b>		XX Y-XX N; Motion passed/failed.			
		<input type="checkbox"/>	2/3 ≤ [Negative is addressed by the technical change(s).] GO TO “Incorporation of the Technical Change” subsection		
		<input type="checkbox"/>	[Negative is not addressed by the technical change(s).] < 2/3 GO TO “Final” subsection → (E)		
<b>Incorporation of the Technical Change</b>	<b>Motion</b>	To incorporate the technical change(s).			
	<b>Motion by/2<sup>nd</sup> by</b>	Name (Company)/Name (Company)			
	<b>Discussion</b>				
	<b>Result of Vote (check one)</b>		XX Y-XX N; Motion passed/failed.		
<input type="checkbox"/>			90% ≤ [Agree to incorporate.] GO TO “Final” subsection → (F)		
<input type="checkbox"/>			[Disagree to incorporate.] > 10% GO TO “Final” subsection → (E)		
<b>Not Significant Finding Option</b>	This option can be used only “if the TC Chapter finds a Negative not persuasive by a vote equal to or greater than 90% of the persons voting on the action”. (Regulations ¶ 9.6.1.4.5.2)				
	<b>Use of “Not significant finding option” (check one)</b>	<input type="checkbox"/>	It is mutually agreed upon to term the Negative “not significant”. GO TO “Final” subsection → (D)		
		<input type="checkbox"/>	It is mutually agreed upon to term the Negative “significant”. GO TO “Final” subsection → (C)		
		Whether or not the Negative is “not significant” is decided by a vote.			
	<b>Motion</b>	The Negative is “not significant”.			
	<b>Motion by/ 2<sup>nd</sup> by</b>	Name (Company)/Name (Company)			
	<b>Vote</b>	<input type="checkbox"/>	XX Y-XX N; Motion passed with simple majority	GO TO “Final” subsection → (D)	
<input type="checkbox"/>		XX Y-XX N; Motion failed with simple majority	GO TO “Final” subsection → (C)		
<b>Final</b>	<b>(check if applicable)</b>	<input checked="" type="checkbox"/>	(A)	Withdrawn (counted under h in disposition)	
		<input type="checkbox"/>	(B)	Not related (counted under i in disposition)	
		<input type="checkbox"/>	(C)	Related and not persuasive (significant)	
		<input type="checkbox"/>	(D)	Not significant (counted under j in disposition)	
		<input type="checkbox"/>	(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS
		<input type="checkbox"/>	(F)	Addressed by technical change (counted under k disposition)	
	<b>(check if applicable)</b>	<input type="checkbox"/>	Comment generated. See Section V-(ii) Comment # X.		

This table is needed for each Negative.

### Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

1	Original number (#) of Negatives	(g)
1	Number of Negatives withdrawn	(h)
0	Number of Negatives found not related	(i)

0	Number of Negatives found not significant		(j)
0	Number of Negatives addressed by technical change (Negative becomes not significant)		(k)
Final	x	$g - (h + i + j + k) = 0$	Reject is Not Valid and is not included in the denominator of § VI. <i>Approval Conditions Check</i>
		$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. <i>Approval Conditions Check</i>
		Reject without a Negative	Not Valid

#### IV. Other Technical Issues

None

#### V. Comments

None

#### V- (i) Voters' Comments

None

#### V-(ii) Comments Created by Handling Negative

None

#### VI. Editorial Changes Other than Those Voted on in § V

None

#### VII. Approval Conditions Check

##### VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations ¶ 9.6.2.1.2*)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations ¶ 9.6.2.1.3*)

Note: If both approval conditions are not satisfied, the Document fails.

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	45	/	45	=	100.0%	≥90%

##### VII. – (ii) Approval Level (check one)

Note: See *Regulations § 9.6.2* for further information.

x

**Globally Approved (No Ratification Ballot needed):**

Line Item 2 meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

Line Item 2 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

## Checks for Entire Document Including All Approved Line Items

### VIII. Safety Check

**Note:** This Safety check applies to the entire Standard or Safety Guideline including all the approved Line Items. See § 15 of the Regulations for further information.

<b>Motion</b>	<input checked="" type="checkbox"/>	<b>This is not a Safety Document</b> , when all safety-related information is removed, the Document is still technically sound and complete. ( <i>Regulations</i> ¶ 8.7.1)
	<input type="checkbox"/>	<b>This is a Safety Document</b> , when all safety-related information is removed, the Document is not technically sound and complete. ( <i>Regulations</i> ¶ 8.7.2)
	<input type="checkbox"/>	Safety Checklist ( <i>Regulations</i> ¶ 15.3) is complete and has been included with the Document throughout the balloting process. ( <i>Regulations</i> ¶ 15.1.2)
<b>Motion by/2<sup>nd</sup> by</b>	By: Albert Fuchigami / PEER Group Inc. Second: Jack Ghiselli / Ghiselli Consulting	
<b>Discussion</b>	None	
<b>Vote</b>	11 Y-0 N; Motion passed	

### IX. Intellectual Property (IP) Check

**Note:** This Letter Ballot may cover all or part of a Standard or Safety Guideline. Regardless of the coverage, this IP check applies to the entire Standard or Safety Guideline including all the approved Line Items\*. See Regulations § 16 for further information.

x	The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (see <i>Regulations</i> ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see <i>Regulations</i> ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, <i>Regulations</i> § 8.8)					
	<input type="checkbox"/>	The question is NOT answered in affirmative (No potentially material patented technology or use/reproduction of copyrighted items/trademarks is known.)	<b>GO TO SECTION X.</b>			
	<input checked="" type="checkbox"/>	The question is answered in affirmative	Is any of the known IPs a patented technology?	<input checked="" type="checkbox"/>	<b>Yes, at least one of them is a patented technology</b>	<b>GO TO IX (a) “Patented Technology” subsection</b>
				<input type="checkbox"/>	<b>No</b>	<b>GO TO IX (b) “Copyright items” subsection</b>

#### IX(a) Patented Technologies subsection

##### IX(a1) Total numbers of Patented Technologies to be dealt with

<b>1</b> <b>Fill number</b>	(l) Known Patented Technology that might be relevant to	<b>0</b> <b>Fill number</b>	(m) Number of patented technologies first became known to the TC Chapter on or after the day of the issuance of this Letter Ballot	<b>Postpone assessment of such patented technologies to be performed at the next scheduled TC Chapter meeting.</b>
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the Standard/Safety Guideline	1 Fill number	(n) Number of patented technologies first became known to the TC Chapter before the day of the issuance of this Letter Ballot	GO TO IX (a2)
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### IX(a2) Assessment of disclosed patented technologies

<b>Disclosed patented technology #1</b> <u>Asyst Patent Application</u> <u>Mutli-protocol multi-client equipment server</u> <u>Automation Job Management</u> <u>Automated tool management in a multi-protocol environment</u> <u>Apparatus and method for web-based tool management</u>  NON-ASSERTION AGREEMENT (LOA) between SEMI and Asyst Technologies has been signed with for US Patents #11/340101, #11/107508, #09/899833, and 09/496009, in 2008.		<b>Date of Assessment (If different from the date of Letter Ballot adjudication)</b> 12/1/2007				
Is disclosed patented technology #1 found to be "might be material" to the Standard/Safety Guideline?	x	YES (It is a PMPT)	Is the use of this PMPT technically justified?	x	YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(a3)
					NO	The Document is failed and returned to the TF
		NO	No further action is needed for patented technology #1			

*This table is needed for each disclosed patented technology.*

### IX(a3) LOA status check of PMPT of which inclusion assessed to be justified

<b>LOA Status of PMPT #1</b>						
Has an LOA for this patented technology been received from every owner ?	x	YES	PROCEED to check NEXT one, or if this is the last one, GO TO IX(b)			
		NO	MOTION		Ask ISC for special permission to publish.	
					Quit activity.	The Document is failed and returned to the TF
				Wait for LOA	PROCEED to check NEXT one, or if this is the last one, GO TO IX(b1)	
				<b>Motion by/ 2<sup>nd</sup> by</b>	Name (Company)/Name (Company)	
				<b>Discussion</b>	XXXX	
				<b>Vote</b>	XX Y-XX N; Motion passed (or failed)	

*This table is needed for each PMPT of which inclusion assessed to be justified.*

### IX(b1) Total numbers of copyrighted items to be dealt with

<b>0</b> Fill number	(o) Known copyrighted items that are used or reproduced to the Standard/Safety Guideline	<b>o &gt; 0</b>	There is at least one known copy righted items that might be relevant to the Standard/Safety Guideline	<b>GO TO IX (b2)</b>
		<b>x</b>	<b>o = 0</b> There is no disclosed copyrighted item	<b>GO TO IX (c)</b>

### IX(b2) Assessment of disclosed copyrighted items

<b>Disclosed copyrighted item #1</b> (Brief description of its use in the Document):						
Is disclosed copyrighted item #1 used or reproduced in the Standard/Safety Guideline?		YES	Is the use/reproduction of this copyrighted item technically justified?		YES	<b>PROCEED to assess NEXT one, or if this is the last one, GO TO IX(b3)</b>
					NO	
		NO	No further action is needed for copyrighted item #1			

*This table is needed for each disclosed copyrighted item.*

### IX(b3) Copyright release status check of copyrighted item of which inclusion assessed to be justified

<b>Copyright release Status of copyrighted item #1</b>						
Has the copyright release been received from its owner ?.		YES	<b>PROCEED to assess NEXT one, or if this is the last one, GO TO IX(c)</b>			
		NO	MOTION		Ask ISC for special permission to publish.	
					Quit activity.	<b>The Document is failed and returned to the TF</b>
					Wait for copyright release letter	<b>PROCEED to check NEXT one, or if this is the last one, GO TO IX(c)</b>
				<b>Motion by/ 2<sup>nd</sup> by</b>	Name (Company)/Name (Company)	
				<b>Discussion</b>	XXXX	
				<b>Vote</b>	XX Y-XX N; Motion passed (or failed)	

*This table is needed for each copyrighted item of which use/reproduction assessed to be justified.*

### IX(c) Assessment of disclosed (identified) trademark

Is there any trademark in the Standard/Safety Guideline?	<b>x</b>	YES	Is every instance of trademark use technically justified?	<b>x</b>	YES	<b>GO TO IX(d)</b>
				NO	<b>The Document is failed and returned to the TF</b>	
		NO	<b>GO TO IX(d)</b>			

### IX(d) IP check completion condition check

The co-chair checks if any Patented Technologies first become known to the TC Chapter on or after the day of the issuance of this Letter Ballot? i.e., m>0 in IX(a1)		YES	Sections IX(a2) and IX(a3) shall be completed and recorded for such patented technologies at next scheduled meeting of the TC Chapter. Until then, the TC Chapter shall NOT go to X (making motion to pass/fail this Document) (see <i>Regulations</i> ¶ 16.4.1.2) Until then this Letter Ballot Review is on hold.
	x	NO	GO TO X

### X. Action for This Document

Motion (Check all applicable items)	x	Line item(s) [2] passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
		Line item(s) [X], [X] and [X] passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
		Line item(s) [X], [X] and [X] passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.
	x	Line item(s) [1] failed TC Chapter review and will be returned to the TF for rework.
		Line item(s) [X], [X] and [X] failed TC Chapter review and work will be discontinued.
Motion by/ 2nd by	By: Albert Fuchigami / PEER Group Inc. Second: Jack Ghiselli / Ghiselli Consulting	
Discussion	None	
Vote	12 Y-0 N	
Final Action	x	Motion passed
		Motion failed

**Note: If the use of PMPT or copyrighted item is justified by the TC Chapter, LOA or release form must be received before publication can proceed.**