

# Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **North America**

Global Technical Committee: **Information and Control**

TC Chapter Cochairs: **Brian Rubow (Cimetrix) Jack Ghiselli (Ghiselli Consulting), James Moyne (Applied Materials, University of Michigan)**

Standards Staff: **Inna Skvortsova**

	Scheduled in Background Statement	Actual
Date	11/06/2019	11/06/2019
Location	SEMI HQ, Milpitas CA	SEMI HQ, Milpitas CA
Reason for Change of Date and/or Location (if changed)		

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

## I. Document Number and Title

Document Number	Document Title
6344A	NEW STANDARD: SPECIFICATION FOR PROTOCOL BUFFERS COMMON COMPONENTS

## 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	93	÷	154	=	60.4%	≥60%
Intercommittee Ballot	8					
Voting Interest Reject(s)	1		Total Voters with Rejects		1	
Voting Interest Accept(s)	37					

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

### III. Rejects

#### Voting Interest Reject 1 (Voting Interest Name: AFF\_KKR) Voter Reject 1 (Voter: Matsuda, Mitsuhiro, KOKUSAI ELECRIC CORPORATION)

##### Negative 1

<b>Negative</b>	Referenced Section/ Paragraph	<b>*TF/TC Chapter to fill in, including text in the ballot if necessary.</b>		
		n/a		
	Negative Text	<b>*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</b> SNARF 6344: LOI shall be obtained for SNARF approval per Regulation 16.2.1. So SNARF 6344 shall be invalidated. SNARF 6344: LOI shall be obtained for SNARF approval per Regulation 16.2.1. So SNARF 6344 shall be invalidated.		
TF input (optional)				
<b>Withdrawal (check one)</b>	<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)	
<b>Related</b>	<b>Motion and Reason (check one)</b>	<input checked="" 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
	<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"/>		[Negative is not related.] < 2/3	GO TO "Persuasive" subsection	
<input type="checkbox"/>		2/3 ≤ [Negative is not related.]	GO TO "Final" subsection → (B)	
<b>Persuasi ve</b>	<b>Motion and Reason (check one)</b>	Negative is related and persuasive. (Needs >1/3 votes to pass.)		
	<input checked="" type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)		

		Reason	<ul style="list-style-type: none"> <li>– PEER Group acquired the Asyst patents and started the process to update the existing Non-Assertion Agreement to include the new Standard being developed on August 16, 2019 (before GCS SNARF approval).</li> <li>– SEMI considers the non-assertion agreements between SEMI and Asyst and SEMI and PEER Group to be equivalent to an acceptable LOA and to cover both the existing standards in the EDA Suite and the new developed Standard (E179 which is reserved for 6344A)</li> <li>– As these non-assertion agreements cover both the existing Standards in the EDA Suite and the newly developed standard (E179), SEMI considers that this document (i.e. the new standard) is provided with the equivalent of a combined LOI/LOA.</li> <li>– DDA TF asked GCS to approve the revised SNARF for 6344 identifying the use of Asyst patented technology so we could ballot in Cycle 7. (Aug 28, 2019)</li> </ul>			
	<b>Motion by/ 2<sup>nd</sup> by</b>	Albert Fuchigami (PEER Group) / Brian Rubow (Cimatrix)				
	<b>Discussion</b>	None				
	<b>Result of Vote (check one)</b>	6 Y-0 N; Motion passed				
		<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	<b>Is a technical change recommended? (check one)</b>	<input type="checkbox"/>	Y GO TO “Address by Technical Change Option” subsection
		<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		<input type="checkbox"/>	N GO TO “Final” subsection → (E)
		<input type="checkbox"/>	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO “Final” subsection → (C)		
		<input checked="" type="checkbox"/>	90% ≤ [Negative is related and not persuasive.]	GO TO “Not Significant Finding Option” subsection		
<b>Not Significant Finding Option</b>	<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>					
	<b>Use of “Not significant finding option” (check one)</b>	<input checked="" 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.			
	<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 type="checkbox"/>	(A)	Withdrawn (counted under h in disposition)		
		<input type="checkbox"/>	(B)	Not related (counted under i in disposition)		

		(C)	Related and not persuasive (significant)
	X	(D)	Not significant (counted under j in disposition)
		(E)	Related and persuasive and not addressed by technical change
		(F)	Addressed by technical change (counted under k disposition)
(check if applicable)		Comment generated. See Section V-(ii) Comment # X.	

This table is needed for each Negative.

Check only when the Document has not been failed.

1	Original number (#) of Negatives	(g)	
0	Number of Negatives withdrawn	(h)	
0	Number of Negatives found not related	(i)	
1	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. Approval Conditions Check
		$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. Approval Conditions Check
		Reject without a Negative	Not Valid

This table is needed for each Voting Interest Reject.

Note: If all of the Negatives included with a Reject Vote are withdrawn, determined to be not related, or determined to be not significant, the Reject Vote is not valid. (Regulations ¶ 9.4.3.3)

Note: A Negative addressed by a technical change is automatically considered to be not significant. (Regulations ¶ 9.6.1.4.5.2)

## IV. Other Technical Issues

NONE.

## V. Comments

### V- (i) Voters' Comments

Commenter 1 (Hoogenboom, Thomas / ASML) - Comment 1

*TF/TC Chapter to fill in section/paragraph #, if necessary.
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Comment	<p>[Esss.00-RQ-00003-00] 'at a minimum' --&gt; 'as a minimum'</p> <p>[Esss.00-RQ-00004-00] the examples suggest the -com suffix is part of the standard, however, the requirement does not enforce this convention. Idem for the -org suffix: semi-org is not part of the requirement, only introduced as an example.</p> <p>[Esss.00-RQ-00008-00] As with the other SEMI standards I know, this new standard does not seem to allow the use of the UTF-8 string format. R3-4.1.2 states UTF-8 is binary compatible with ASCII, but this is not as I know it: I believe ASCII is a subset of UTF-8.</p>
	<p>The TC Chapter agreed to do one of the following actions.</p> <p><b>*No motion is required in this step.</b></p>
Action	<input type="checkbox"/> Already addressed by Commenter #, Comment #
	<input type="checkbox"/> No further action was taken by the TC Chapter.
	<input type="checkbox"/> Refer to the TF for more consideration.
	<input checked="" type="checkbox"/> New Business
	<input type="checkbox"/> Editorial Change

**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.

		<b>Accepts</b>		<b>(Accepts + Valid Rejects)</b>					
<b>Approval Rate</b>	=	<b>37</b>	/	<b>37</b>	=	<b>100.0%</b>		<b>≥90%</b>	

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

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

<input checked="" type="checkbox"/>	<p><b>Globally Approved (No Ratification Ballot needed):</b> The Letter Ballot meets the Letter Ballot approval conditions for the global technical committee.</p>
<input type="checkbox"/>	<p><b>Need a Ratification Ballot:</b> The Letter Ballot meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.</p>

## VIII. Safety Check

Note: See *Regulations* § 15 for further information.

Motion	<input checked="" type="checkbox"/>	<p><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)</p>	
	<input type="checkbox"/>	<p><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)</p>	
	<input type="checkbox"/>	<p>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)</p>	
Motion by/2 <sup>nd</sup> by		Albert Fuchigmai (PEER Group) / Chris Maloney (INTEL)	
Discussion		None	
Vote		7 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.

<input checked="" type="checkbox"/>	<p>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)</p>			
<input type="checkbox"/>	<p>The question is NOT answered in affirmative (No potentially material patented technology or use/reproduction of copyrighted items/trademarks is known.)</p>	<p><b>GO TO SECTION X.</b></p>		
<input checked="" type="checkbox"/>	<p>The question is answered in affirmative</p>	<p>Is any of the known IPs a patented technology?</p>	<input checked="" type="checkbox"/>	<p><b>Yes, at least one of them is a patented technology</b></p>
<p><b>GO TO IX (a) “Patented Technology” subsection</b></p>				

				No	GO TO IX (b) "Copyright items" subsection
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**IX(a) Patented Technologies subsection**

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

1 Fill number	(l) Known Patented Technology that might be relevant to the Standard/Safety Guideline	Fill number	(m) Number of patented technologies first became known to the TC Chapter on or after the day of the issuance of this Letter Ballot	Postpone assessment of such patented technologies to be performed at the next scheduled TC Chapter meeting.
		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)

**IX(a2) Assessment of disclosed patented technologies**

<b>Disclosed patented technology #1</b> <i>(Brief description, e.g., patent title and number):</i> <u>Asyst Patent Application</u> <ul style="list-style-type: none"> <li><a href="#">Mutli-protocol multi-client equipment server</a></li> <li><a href="#">Automation Job Management</a></li> <li><a href="#">Automated tool management in a multi-protocol environment</a></li> <li><a href="#">Apparatus and method for web-based tool management</a></li> </ul>						<b>Date of Assessment (If different from the date of Letter Ballot adjudication)</b>
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			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 - Asyst Patent Application</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)
			Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)		
			Discussion	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	GO TO IX (b2)
		<b>X</b> <b>o = 0</b> There is no disclosed copyrighted item	GO TO IX (c)

**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	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(b3)
				NO	The Document is failed and returned to the TF
		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	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(c)		
		NO	MOTION	Ask ISC for special permission to publish.	The Document is failed and returned to the TF
				Quit activity.	
				Wait for copyright release letter	PROCEED to check NEXT one, or if this is the last one, GO TO IX(c)
			Motion by/ 2 <sup>nd</sup> by	Name (Company)/Name (Company)	
			Discussion	XXXX	
			Vote	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?	X	YES	Is every instance of trademark use technically justified?	X	YES	GO TO IX(d)
				NO	The Document is failed and returned to the TF	
		NO	GO TO IX(d)			

**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 Regulations ¶ 16.4.1.2) Until then this Letter Ballot Review is on hold.
	X	NO	GO TO X

## X. Action for This Document

<b>Motion</b>	<input checked="" type="checkbox"/>	This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.
	<input type="checkbox"/>	This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.
	<input type="checkbox"/>	This Document 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.
	<input type="checkbox"/>	This Document failed TC Chapter review and will be returned to the TF for rework.
	<input type="checkbox"/>	This Document failed TC Chapter review and work will be discontinued.
<b>Motion by/ 2<sup>nd</sup> by</b>	Albert Fuchigami (PEER Group) / Chris Maloney (INTEL)	
<b>Discussion</b>	none	
<b>Vote</b>	8 Y-0 N	
<b>Final Action</b>	<input checked="" type="checkbox"/>	Motion passed
	<input type="checkbox"/>	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.**