

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, James Amano**

	Scheduled in Background Statement	Actual
Date	04/05/2017	04/05/2017
Location	SEMI HQ, Milpitas CA	SEMI HQ, Milpitas CA
Reason for Change of Date and/or Location (if changed)		

I. Document Number and Title

Document Number	Document Title
5549A	REVISION TO SEMI E30-0416 <i>GENERIC MODEL FOR COMMUNICATIONS AND CONTROL OF MANUFACTURING EQUIPMENT (GEM)</i> with Title Change to: <i>SPECIFICATION FOR THE GENERIC MODEL FOR COMMUNICATIONS AND CONTROL OF MANUFACTURING EQUIPMENT (GEM)</i>

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 ¶ 9.7.1.1*)

Voting Tally (with example values):

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	61	÷ 101	= 60.4%	≥60%
Intercommittee Ballot	13			
Voting Interest Reject(s)	3	Total Voters with Rejects		3
Voting Interest Accept(s)	39			

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

III. Rejects

Voting Interest Reject 1 (Voting Interest Name: SCREEN)

Voter Reject 1 (Voter: Nishimura, Takayuki / Screen)

Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.		
		8.4.2		
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.		
		8.4.2 Adding 'EnableSpooling' is out of SNARF scope. Prior to changing SNARF is necessary.		
	TF input (optional)	See section 5.12.3.20. EnableSpooling is already specifically required, but it is missing from a summarizing list. This is not listed in the SNARF. It is also not a technical change. Instead it is an Editorial Change to the E30 document.		
	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 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.)	
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	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	This is not a technical change because E30 section 5.12.3.20 (new section is 7.12.3.20) already requires this ECV. Section 8.4.2 is just a summarizing list. Listing or not listing EnableSpooling does not change E30 requirements.	
	Motion by/ 2 nd by	Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)		
	Discussion	None		
		6 Y-0 N; Motion passed		

Result of Vote (check one)	<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<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			
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". (Regulations ¶ 9.6.4.4.2)						
	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 checked="" 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.						
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 checked="" 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.				

Negative 2

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.				
		1.1.4 '§11				
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.				
		1.1.4 '§11 GEM Components' and Section 11 title is 'GEM Compliance'. They are inconsistent.				
	TF input (optional)	This was a misunderstanding of the text during ballot creation and will be addressed by editorial change.				
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 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			

Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	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	This was a misunderstanding of the text during ballot creation and will be addressed by editorial change.			
	Motion by/ 2 nd by	Brian Rubow (Cimetrix) / Frank Summers (ISGD)				
	Discussion	None				
Result of Vote (check one)	6 Y-0 N; Motion passed					
	<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<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				
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”. (Regulations ¶ 9.6.4.4.2)					
	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 checked="" 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.					
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 checked="" 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.				

Negative 3

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.
		Related Information
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.
		Each section is changed from 'A.#' to 'R1-#' but figures are not changed. E.g. Figure A.5.1 Harel Statechart Symbols
TF input (optional)		Will be addressed by editorial changes by SEMI Publication. The numbering of figures and tables is editorial by nature.

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 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.)				
		<input type="checkbox"/>	Reason				
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	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.)				
	<input type="checkbox"/>	Reason	The numbering of figures and tables is editorial by nature.				
	Motion by/ 2nd by	Brian Rubow (Cimetrix) / Frank Summers (ISGI)					
	Discussion	None					
	Result of Vote (check one)	6 Y-0 N; Motion passed					
		<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<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					
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". (Regulations ¶ 9.6.4.4.2)						
	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 checked="" 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.						
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 checked="" 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.					

Disposition of Voting Interest Reject 1

Check only when the Document has not been failed.

3	Original number (#) of Negatives	(g)	
0	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	<input type="checkbox"/>	$g - (h + i + j + k) = 0$	Reject is Not Valid and is not included in the denominator of § VI. <i>Approval Conditions Check</i>
	<input checked="" type="checkbox"/>	$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. <i>Approval Conditions Check</i>
	<input type="checkbox"/>	Reject without a Negative	Not Valid

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 ¶ 9.6.4.4.2)

Voting Interest Reject 2 (Voting Interest Name: SCREEN) Voter Reject 1 (Voter: Takasaki, Yoshihisa / SCREEN)

Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.	
		8.4.2	
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.	
		8.4.2 Addition of EnableSpooling is out of scope for SNARF.	
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 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	
	Motion and Reason	<input type="checkbox"/>	Negative is related and persuasive. (Needs >1/3 votes to pass.)

Persuasive	(check one)	<input checked="" type="checkbox"/>	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)			
			Reason	This is not a technical change because E30 section 5.12.3.20 (new section is 7.12.3.20) already requires this ECV. Section 8.4.2 is just a summarizing list. Listing or not listing EnableSpooling does not change E30 requirements.		
	Motion by/ 2 nd by	Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)				
	Discussion					
	Result of Vote (check one)	6 Y-0 N; Motion passed				
			<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<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			
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”. (Regulations ¶ 9.6.4.4.2)					
	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 checked="" 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.					
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 checked="" 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.			

Negative 2

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.			
		Related Information			
Negative	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.			
		Some prefix of figures should be 'R' not 'A' because they are belong to Related information, not Appendix			
	TF input (optional)	Will be addressed by editorial changes by SEMI Publication. The numbering of figures and tables is editorial by nature.			
	Withdrawal (check one)	<input checked="" type="checkbox"/>	No Negative withdrawal made by Voter.		GO TO “Related” subsection

		Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection → (A)	
Related	Motion and Reason (check one)	<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		
Persuasive	Motion and Reason (check one)	<input type="checkbox"/> 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	The numbering of figures and tables is editorial by nature.	
	Motion by/ 2 nd by	Brian Rubow (Cimetrix) / Frank Summers (ISGDI)		
	Discussion	None		
	Result of Vote (check one)	6 Y-0 N; Motion passed		
		<input type="checkbox"/> [Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<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			
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". (Regulations ¶ 9.6.4.4.2)			
	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 checked="" 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.			
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 checked="" 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)	Comment generated. See Section V-(ii) Comment # X.			

Negative 3

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.
		Appendix.

	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.		
		Table 1. SECS-II message name for Service name 'CarrierRecreate' should be Carrier Action		
	TF input (optional)	There is no such message or table; therefore it is not related.		
	Withdrawal (check one)	X	No Negative withdrawal made by Voter. GO TO "Related" subsection	
			Withdrawal document received by Standards staff on MM/DD/YYYY. GO TO "Final" subsection → (A)	
Related	Motion and Reason (check one)		'Related' is mutually agreed upon. (Needs no motion.) GO TO "Persuasive" subsection	
		X	Negative is not related. (Needs ≥2/3 votes to pass.)	
		Reason	There is no such message or table; therefore it is not related.	
	Motion by/ 2 nd by	Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)		
	Discussion	None		
	Result of Vote (check one)	6Y-0 N; Motion passed.		
		[Negative is not related.] < 2/3	GO TO "Persuasive" subsection	
	X	2/3 ≤ [Negative is not related.]	GO TO "Final" subsection → (B)	
Final	(check if applicable)		(A) Withdrawn (counted under h in disposition)	
		X	(B) Not related (counted under i in disposition)	
			(C) Related and not persuasive (significant)	
			(D) Not significant (counted under j in disposition)	
			(E) Related and persuasive and not addressed by technical change	DOCUMENT FAILS
			(F) Addressed by technical change (counted under k disposition)	
	(check if applicable)		Comment generated. See Section V-(ii) Comment # X.	

Disposition of Voting Interest Reject 2

Check only when the Document has not been failed.

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

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 ¶ 9.6.4.4.2)

Voting Interest Reject 3 (Voting Interest Name: Matsuda, Mitsuhiro) Voter Reject 1 (Voter: Matsuda, Mitsuhiro / Hitachi)

Negative 1

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. Referenced Section/ Paragraph: 8.4.2 ECV's			
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. Adding "EnableSpooling" is out of scope from SNARF.			
TF input (optional)		See section 5.12.3.20. EnableSpooling is already specifically required, but it is missing from a summarizing list. This is not listed in the SNARF. It is also not a technical change. Instead it is an Editorial Change to the E30 document.			
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	<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.)			
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	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	This is not a technical change because E30 section 5.12.3.20 (new section is 7.12.3.20) already requires this ECV. Section 8.4.2 is just a summarizing list. Listing or not listing EnableSpooling does not change E30 requirements.		
	Motion by/ 2 nd by	Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)			
	Discussion	none			
	Result of Vote (check one)	6 Y-0 N; Motion passed			
<input type="checkbox"/>		[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<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			

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> ¶ 9.6.4.4.2)		
	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 checked="" 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.	
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 checked="" 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)	Comment generated. See Section V-(ii) Comment # X.	

This table is needed for each Negative.

Negative 2

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. Referenced Section/ Paragraph: 1.1.4	
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. §11 is GEM Compliance. Not GEM Components.	
		TF input (optional) This was a misunderstanding of the text during ballot creation and will be addressed by editorial change.	
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 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		
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	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	This was a misunderstanding of the text during ballot creation and will be addressed by editorial change.	

	Motion by/ 2 nd by	Brian Rubow (Cimetrix) / Frank Summers (ISGI)			
	Discussion				
	Result of Vote (check one)	6 Y-0 N; Motion passed.			
		<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	Y GO TO "Address by Technical Change Option" subsection
		<input type="checkbox"/>	[Negative is related and not persuasive.] < 2/3		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			
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". (Regulations ¶ 9.6.4.4.2)				
	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 checked="" 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.				
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 checked="" 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.

Negative 3

Negative	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary. Referenced Section/ Paragraph: RELATED INFORMATION 1		
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.		
		Almost figure shall rename "A.XXX" to "R.XXX" like "Figure R1-8.1".		
TF input (optional)		Will be addressed by editorial changes by SEMI Publication. The numbering of figures and tables is editorial by nature.		
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)
el R	Motion and Reason	<input checked="" type="checkbox"/>	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection

	(check one)	<input type="checkbox"/>	Negative is not related. (Needs ≥2/3 votes to pass.)		
		<input type="checkbox"/>	Reason		
Persuasive	Motion and Reason (check one)	<input type="checkbox"/>	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	The numbering of figures and tables is editorial by nature.		
	Motion by/ 2 nd by	Brian Rubow (Cimetrix) / Albert Frank Summers (ISGI)			
	Discussion	None			
	Result of Vote (check one)	6 Y-0 N; Motion passed.			
	<input type="checkbox"/>	[Negative is related and persuasive.] > 1/3	Is a technical change recommended? (check one)	<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		
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". (Regulations ¶ 9.6.4.4.2)				
	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 checked="" 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.			
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 checked="" 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.

Disposition of Voting Interest Reject 3

Check only when the Document has not been failed.

3	Original number (#) of Negatives	(g)	
0	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		$g - (h + i + j + k) = 0$	Reject is Not Valid and is not included in the denominator of § VI. <i>Approval Conditions Check</i>
	X	$g - (h + i + j + k) > 0$	Reject is included in the denominator of § VI. <i>Approval Conditions Check</i>
		Reject without a Negative	Not Valid

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 ¶ 9.6.4.4.2)

IV. Other Technical Issues

None

V. Comments

V- (i) Voters' Comments

Commenter 1 (Mochizuki, Tadashi/TEL) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.		
	In 1.1.4 § 11, GEM Compliance, although this is modified to GEM Components, actual § 11 remains GEM Compliance (I don't know the reason for the modification).		
Action	The TC Chapter agreed to do one of the following actions.		
	*No motion is required in this step.		
		Already addressed by Commenter #, Comment #	
		No further action was taken by the TC Chapter.	
		Refer to the TF for more consideration.	
		New Business	
	X	Editorial Change	
	Options for editorial change (check one)	X	Case 1: No vote in this section: To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>
			Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.

Commenter 1 (Mochizuki, Tadashi/TEL) - Comment 2

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	Page 11 footnote: 'Refer to SEMI E5, § 5, for definitions of SECS - II transaction and conversation protocols.', in current E5-0813, this section is section 8 instead of section 5. I think it is necessary to delete the section number or change to section 8.	
Action	The TC Chapter agreed to do one of the following actions.	
	*No motion is required in this step.	
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #
	<input checked="" type="checkbox"/>	No further action was taken by the TC Chapter.
	<input type="checkbox"/>	Refer to the TF for more consideration.
	<input type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change
	Options for editorial change (check one)	Case 1: No vote in this section: To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>
		Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.

Commenter 1 (Mochizuki, Tadashi/TEL) - Comment 3

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	In 6.2 and 6.2.1, § A.5 does not changed. I think it is necessary to change to § R1-5.	
Action	The TC Chapter agreed to do one of the following actions.	
	*No motion is required in this step.	
	<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 type="checkbox"/>	New Business
	<input checked="" type="checkbox"/>	Editorial Change
	Options for editorial change (check one)	Case 1: No vote in this section: To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>
		Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.

Commenter 2 (Sakamoto, Mitsune/Self) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	Fig5 Communication State Model in SEMI E30 should be replaced with the figure in attached file. A horizontal line has been added accidentally on Figure 5, that should be removed. (COMMUNICATION_STATE_MODEL.jpg)	
Action	The TC Chapter agreed to do one of the following actions.	
	*No motion is required in this step.	
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #
	<input checked="" type="checkbox"/>	No further action was taken by the TC Chapter.
	<input type="checkbox"/>	Refer to the TF for more consideration.
	<input type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change
Options for editorial change (check one)	<input type="checkbox"/>	Case 1: No vote in this section:
	<input type="checkbox"/>	To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>
	<input type="checkbox"/>	Case 2: Voted in this section:
	<input type="checkbox"/>	Original section number and at least one full sentence are required in “FROM” and “TO” fields.

This table is needed for each Comment.

**V-(ii) Comments Created by Handling Negative
NONE**

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

Original section/paragraph number and at least one full sentence are required in “FROM” and “TO” fields.

1	Origin of this editorial change (Check one)	X	Reject 1 Negative 2 / Nishimura, Takayuki (SCREEN); Reject 3 Negative 2 / Matsuda, Mitsuhiro (Hitachi) Commenter 1 Comment 1 / Mochizuki, Tadashi (TEL)
		<input type="checkbox"/>	Other []

FROM: Section/Paragraph

1.1.1 [The fundamental GEM requirements form the foundation of the GEM Standard. The additional GEM capabilities provide functionality required for some types of factory automation or functionality applicable to specific types of equipment. A detailed list of the fundamental GEM requirements and additional GEM capabilities can be found in § 11, GEM Components Compliance.](#) Figure 1 illustrates the components of the GEM Standard.

1.1.4 [The fundamental GEM requirements form the foundation of the GEM Standard. The additional GEM capabilities provide functionality required for some types of factory automation or functionality applicable to specific types of equipment. A detailed list of the fundamental GEM requirements and additional GEM capabilities can be found in § 11, GEM Components Compliance.](#) Figure 1 illustrates the components of the GEM Standard.



Figure 1
GEM Components

TO: Section/Paragraph

[A detailed list of the fundamental GEM requirements and additional GEM capabilities can be found in § 11, GEM Components Compliance.](#) Figure 1 illustrates the...

Justification: (If necessary)

Mistake in the ballot, revert proposed change to original version.

Origin of this editorial change (Check one)	<input checked="" type="checkbox"/>	Reject 1, Negative 3 / Nishimura, Takayuki (SCREEN); Reject 2, Negative 2 / Takasaki, Yoshihisa (SCREEN); Reject 3, Negative 3 / Matsuda, Mitsuhiro (Hitachi)
	<input type="checkbox"/>	Other []

FROM: Section/Paragraph

In section Related Information (previously called the Application Notes), all tables and figures prefix “A”

2

TO: Section/Paragraph

Renumber all tables and figures using the “R1-” prefix.

Also correct all references to the tables and figures

Justification: (If necessary)

Will be fixed by SEMI staff when numbering references are updated. Such references are very difficult to fix in a draft document.

Motion	To approve the above editorial change(s).
Motion by/ 2nd by	Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)
Discussion	NONE
Vote	6 Y-0 N; Motion passed

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 ¶ 9.7.1.2*)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations ¶ 9.7.1.3*)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	39		42	=	92.9%	≥90%

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

Note: See *Regulations § 9.7.2* for further information.

Globally Approved (No Ratification Ballot needed):

The Letter Ballot meets the Letter Ballot approval conditions for the global technical committee.

Need a Ratification Ballot:

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

VIII. Safety Check

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

Motion	<input checked="" type="checkbox"/>	This is not a Safety Document , when all safety-related information is removed, the Document is still technically sound and complete. (<i>Regulations ¶ 8.7.1</i>)
	<input type="checkbox"/>	This is a Safety Document , when all safety-related information is removed, the Document is not technically sound and complete. (<i>Regulations ¶ 8.7.2</i>)
	<input type="checkbox"/>	Safety Checklist (<i>Regulations ¶ 15.3</i>) is complete and has been included with the Document throughout the balloting process. (<i>Regulations ¶ 15.1.2</i>)
Motion by/2 nd by		Brian Rubow (Cimetrix) / Matsuda, Mitsuhiro (Hitachi Ltd)
Discussion		None
Vote		6 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. This IP check applies to the entire Standard or Safety Guideline. See *Regulations § 16* for further information.

X	The TC Chapter meeting chair asked those participating, if they were aware of any potentially material patented technology or copyrighted items* in the Standard or Guideline. (<i>Regulations ¶ 8.8.1</i>)	
	X	No potentially material patented technology or reproduction of copyrighted items is known.
		GO TO SECTION X.

* **Note:** Such potentially material patented technology or copyrighted items might have become known since the Standard or Safety Guideline was last reviewed, or might become relevant due to this Letter Ballot.

X. Action for This Document

Motion		This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.	
	X	This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.	
		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.	
		This Document failed TC Chapter review and will be returned to the TF for rework.	
		This Document failed TC Chapter review and work will be discontinued.	
Motion by/ 2nd by		Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)	
Discussion		NONE	
Vote		6 Y-0N	
Final Action		X	Motion passed
			Motion failed

Standards staff to record the result of the A&R procedural review here:

A&R		Approved for publication
		Approved pending acceptance of the Ratification Ballot
		Not approved
	Reason:	