## 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

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

## **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	Vote	rs 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)

Neg	Referenced Section/ Paragraph	*TF/TC Chapter to fill 8.4.2	TF/TC Chapter to fill in, including text in the ballot if necessary.  3.4.2								
Negative	Negative Text	COriginal complete Negative text (e.g., issue, justification, suggestion) should be copied.  3.4.2 Adding 'EnableSpooling' is out of SNARF scope. Prior to changing SNARF is necessary.									
TFi	nput (optional)	missing from a sumr This is not listed in t	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	X No Negative with	drawal made by Voter.	GO TO "Related" subsection GO TO "Final" subsection							
	(check one)	Withdrawal docur MM/DD/YYYY.	•								
R	Motion and Reason (check one)	X 'Related' is mutua	ally agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection							
Related		Negative is not re	elated. (Needs ≥2/3 votes to pass.)								
ed		Reason									
		Negative is relate	d and persuasive. (Needs >1/3 votes t	to pass.)							
	Motion and Reason	X Negative is relate	d and not persuasive. (Needs ≥2/3 vot	es to pass.)							
Persuasive	(check one)	Reason	This is not a technical change to the change is (new section is 7.12.3.20) alread 8.4.2 is just a summarizing EnableSpooling does not change	dy requires this ECV. Section list. Listing or not listing							
Ф	Motion by/ 2 <sup>nd</sup> by	Brian Rubow (Cimetrix	x) / Albert Fuchigami (PEER Group)								
	Discussion	None									
		6 Y-0 N; Motion passe	ed								

			[Negative is related and persuasive.] > 1/3	Is a technical change recommended?		Υ	GO TO "Address by Technical Change Option" subsection		
	Result of Vote (check one)		[Negative is related and r persuasive.] < 2/3	ot (check one)		N	GO TO "Final" subsection  → (E)		
			2/3 ≤ [Negative is related and not persuasive.] < 90	% GO TO "Final" s	subse	ctio	n <b>→ (C)</b>		
		X	90% ≤ [Negative is relate and not persuasive.]	GO TO "Not Sig	GO TO "Not Significant Finding Option" subsectio				
No: Fin	This option can be used only "if the TC Chapter finds a Negative not persuasive by a vote educater than 90% of the persons voting on the action". (Regulations ¶ 9.6.4.4.2)								
t Sign ding	Use of "Not significant finding option" (check one)		It is mutually agreed upor significant".	t is mutually agreed upon to term the Negative "not ignificant".					
Not Significant Finding Option		X	It is mutually agreed upor "significant".	to term the Negative	)		GO TO "Final" subsection → (C)		
	,		Whether or not the Negat	d by a vote.					
			(A) Withdr	awn <mark>(counted unde</mark> r	h in d	disp	osition)		
			(B) Not rel	ated <mark>(counted unde</mark> r	i in d	lispo	osition)		
	(check if	Χ	(C) Relate	d and not persuasive	(signi	ficar	nt)		
Final	applicable)		(D) Not sig	nificant (counted un	der j i	n di	sposition)		
a			(E) addres	Related and persuasive and not addressed by technical change			DOCUMENT FAILS		
			(F) Addres	sed by technical cha	nge (c	oun	ted under k disposition)		
	(check if applicable)		Comment generated. See	Section V-(ii) Com	ment	# X.			

1109	alive Z			
Neg	Referenced Section/ Paragraph		TC Chapter to fill in, including text in the ballot if ne	cessary.
Negative	Negative Text		ginal complete Negative text (e.g., issue, justificatio ied.	n, suggestion) should be
	Negative Text		4 '§11 GEM Components' and Section 11 title is 'GEI onsistent.	M Compliance'. They are
TF	input (optional)		s was a misunderstanding of the text during ballot ceditorial change.	reation and will be addressed
	Withdrawal	Х	No Negative withdrawal made by Voter.	GO TO "Related" subsection
	(check one)		Withdrawal document received by Standards staff on MM/DD/YYYY.	GO TO "Final" subsection → (A)
R	Motion and	X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection
Related	Reason		Negative is not related. (Needs ≥2/3 votes to pass.)	
ted	(check one)		Reason	

	Motion and		Negative is related	and persu	asive. (Needs >1/	3 vot	es t	o pass.)		
	Reason (check one)	X	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							
	(check one)		Reason		was a misundersta vill be addressed b			the text during ballot creation I change.		
P	Motion by/ 2 <sup>nd</sup> by	Bria	n Rubow (Cimetrix)	/ Frank Su	ımmers (ISGDI)					
ersı	Discussion None									
Persuasive		6 Y-	0 <b>N</b> ; Motion passed	b						
ive	Result of Vote		[Negative is related persuasive.] > 1/3	d and	Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection		
	(check one)		[Negative is related persuasive.] < 2/3	d and not	(check one)		N	GO TO "Final" subsection → (E)		
			2/3 ≤ [Negative is r and not persuasive		GO TO "Final" subsection → (C)					
		X	90% ≤ [Negative is and not persuasive							
Fir	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)									
t Sigr nding	Use of "Not		It is mutually agree significant".	rerm the Negative "not GO TO "Final" subsection → (D)						
Not Significant Finding Option	significant finding option" (check one)	X	It is mutually agree "significant".	ed upon to		GO TO "Final" subsection → (C)				
	,		Whether or not the	Negative	is "not significant"	is dec	cide	d by a vote.		
			(A)	Withdrawn	(counted under l	h in d	lisp	osition)		
			(B)	Not related	(counted under	i in di	ispo	osition)		
	(check if	Χ	(C)	Related an	d not persuasive (	signif	icar	nt)		
Final	applicable)				ant <mark>(counted und</mark>		n di	sposition)		
<u>a</u>			(E)	addressed	d persuasive and by technical chan	ge		DOCUMENT FAILS		
			<b>(F)</b>	Addressed	by technical chan	ge (c	oun	ted under k disposition)		
	(check if applicable)		Comment generate	ed. See Se	ction V-(ii) Comm	nent #	<b>#</b> Χ.			

Ne	Referenced Section/	*TF/TC Chapter to fill in, including text in the ballot if necessary.  Related Information
Negative	Namatina Tant	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.
	Negative Text	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.

								GO TO "Related"
	Withdrawal		No Negative withd	Irawal ma	de by Voter.			subsection
	(check one)		Withdrawal docum MM/DD/YYYY.	nent receiv	ed by Standards st	taff or	1	GO TO "Final" subsection → (A)
D D	Motion and	X	'Related' is mutually agreed upon. (Needs no motion.)					GO TO "Persuasive" subsection
Related	Reason		Negative is not rel	ated. (Ne	eds ≥2/3 votes to p	oass.)	)	
ed	(check one)		Reason					
	Mation and		Negative is related	d and pers	suasive. (Needs >1/	/3 vot	es t	o pass.)
	Motion and Reason (check one)	X	Negative is related	d and not	persuasive. (Needs	≥2/3	vot	es to pass.)
			Reason	The	numbering of figu	ires a	nd t	tables is editorial by nature.
Po	Motion by/ 2 <sup>nd</sup> by	Bria	n Rubow (Cimetrix)	) / Frank S	Summers (ISGI)			
ersu	Discussion	Non	e					
Persuasive		6 Y-	0 N; Motion passe	d				
ve	Result of Vote (check one)		[Negative is related persuasive.] > 1/3	d and	Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection
			[Negative is related persuasive.] < 2/3	d and not	(check one)		N	GO TO "Final" subsection → (E)
			2/3 ≤ [Negative is and not persuasive	e.] < 90%	GO TO "Final" s	ubse	ctio	n → (C)
		X	90% ≤ [Negative is and not persuasive	uasive.]				
Not Find					r finds a Negative action". ( <i>Regulati</i> o			uasive by a vote equal to or 4.4.2)
Not Sigr Finding	Use of "Not		It is mutually agree significant".	ed upon to		GO TO "Final" subsection → (D)		
Significant ding Option	significant finding option" (check one)	X	It is mutually agree "significant".	ed upon to	term the Negative			GO TO "Final" subsection → (C)
	(check one)		Whether or not the	e Negative	e is "not significant"	is ded	cide	d by a vote.
			(A)	Withdraw	n (counted under	h in d	lisp	osition)
			(B)	Not relate	ed (counted under	i in d	ispo	osition)
	(check if	X	(C)	Related a	and not persuasive (	(signif	icar	nt)
Final	applicable)		(D)	Not signif	icant (counted und	ler j i	n di	sposition)
<u>a</u>				addresse	nd persuasive and d by technical chan	ge		DOCUMENT FAILS
	(-1		(F)	Addresse	d by technical chan	ige <mark>(c</mark>	oun	ted under k disposition)
	(check if applicable)		Comment generate	ed. <mark>See S</mark>	ection V-(ii) Comn	nent #	<b>#</b> X.	

### **Disposition of Voting Interest Reject 1**

Check only when the Document has not been failed.

3	Original	num	ber (#) of Negatives	(g)				
0	Number	of N	egatives withdrawn		(h)			
0	Number	of N	egatives found not related	(i)				
0	Number	of N	egatives found not significant		(j)			
0			egatives addressed by technic t significant)	al change (Negative	(k)			
	•		$\mathbf{g} - (\mathbf{h} + \mathbf{i} + \mathbf{j} + \mathbf{k}) = 0$	Reject is Not Valid and is not included in the denominator of § VI. Approval Conditions Check				
	Final	Х	g - (h + i +j + k) >0		Reject is included in the denominator of § VI.  Approval Conditions Check			

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)

<u> </u>	negative i										
Ne	Referenced Section/ Paragraph	*TF/	TF/TC Chapter to fill in, including text in the ballot if necessary.  3.4.2								
Negative	Negative Text	сор	*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	X	No Negative withdrawal made by Voter.		GO TO "Related" subsection						
	(check one)		Withdrawal document re MM/DD/YYYY.	GO TO "Final" subsection → (A)							
Ŗ	Motion and	X	'Related' is mutually agr	reed upon. (Needs no motion.)	GO TO "Persuasive" subsection						
Related	Reason		Negative is not related.	(Needs ≥2/3 votes to pass.)							
ed	(check one)		Reason								
	Motion and Reason	Negative is related and persuasive. (Needs >1/3 votes to pass.)									

	(check one)	X	Negative is related	and not pe	ersuasive. (Needs	≥2/3 v	vote	es 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 <sup>nd</sup> by	Bria	Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)							
Per	Discussion									
sua		6 Y-	0 <b>N</b> ; Motion passed	l						
Persuasive	Result of Vote		[Negative is related persuasive.] > 1/3	l and	ls a technical change recommended?		Υ	GO TO "Address by Technical Change Option" subsection		
	(check one)		[Negative is related persuasive.] < 2/3	l and not	(check one)		N	GO TO "Final" subsection → (E)		
			2/3 ≤ [Negative is re and not persuasive	GO TO "Final" subsection → (C)						
		X	90% ≤ [Negative is and not persuasive	.]				inding Option" subsection		
Fir	This option can I greater than 90%	be u 6 of t	sed only "if the TC the persons voting	Chapter on the ac	finds a Negative i tion". ( <i>Regulati</i> o	not pe ns¶9	ersu ).6.4	uasive by a vote equal to or 4.4.2)		
nt Sign	Use of "Not							GO TO "Final" subsection → (D)		
Not Significant Finding Option	significant finding option" (check one)	X	X It is mutually agreed upon to term the Negative "significant".					GO TO "Final" subsection → (C)		
	(oneok one)		Whether or not the	Negative i	s "not significant" i	is deci	ided	d by a vote.		
			(A)	Withdrawn	(counted under l	n in di	spo	osition)		
			(B)	Not related	(counted under	i in dis	spc	osition)		
	(check if	Χ	<b>(C)</b>	Related and not persuasive (significant)				t)		
Fina	applicable)		` '		ant (counted und	•	di	sposition)		
<u>a</u>			( <b>E</b> )		d persuasive and by technical chang			DOCUMENT FAILS		
			(F)	Addressed	by technical chan	ge <mark>(co</mark>	oun	ted under k disposition)		
	(check if applicable)		Comment generate	ed. <mark>See Se</mark>	ction V-(ii) Comm	nent #	Χ.			

Neg	Section/		*TF/TC Chapter to fill in, including text in the ballot if necessary.  Related Information						
Negative	Negative Text	copi	*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.									
X INO Negative withdrawal made by Voter				GO TO "Related" subsection					

			Withdrawal docume	ent receive	ed by Standards st	aff or	า	GO TO "Final" subsection	
			MM/DD/YYYY.		war (Nasalawa w	4! -	\	→ (A) GO TO "Persuasive"	
Re	Motion and	X	'Related' is mutually	subsection					
Related	Reason		Negative is not related. (Needs ≥2/3 votes to pass.)						
ğ	(check one)		Reason						
	Mation and		Negative is related and persuasive. (Needs >1/3 votes to pass.)						
	Motion and Reason (check one)	X	Negative is related	and not po	ersuasive. (Needs	≥2/3	vot	es to pass.)	
			Reason	The r	numbering of figu	ires a	ınd 1	tables is editorial by nature.	
פ	Motion by/ 2 <sup>nd</sup> by	Bria	n Rubow (Cimetrix)	/ Frank Su	ummers (ISGDI)				
ersı	Discussion	Non	е						
Persuasive		6 Y-	0 <b>N</b> ; Motion passed						
ive	Result of Vote (check one)		[Negative is related persuasive.] > 1/3	and	Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection	
			[Negative is related persuasive.] < 2/3	and not	(check one)		N	GO TO "Final" subsection  → (E)	
			2/3 ≤ [Negative is re	elated	GO TO "Final" s	ubco	otio		
			and not persuasive		GO TO FINAL S	ubse	Clio	11 7 (6)	
		X	90% ≤ [Negative is and not persuasive		GO TO "Not Significant Finding Option" subsection				
No Fir			sed only "if the TC he persons voting					uasive by a vote equal to or 4.4.2)	
»t Sign ոding	Use of "Not		It is mutually agreed significant".	d upon to	term the Negative	"not		GO TO "Final" subsection → (D)	
Not Significant Finding Option	significant finding option" (check one)	X	It is mutually agreed "significant".	d upon to	term the Negative			GO TO "Final" subsection → (C)	
	(oneon one)		Whether or not the	Negative	is "not significant"	is de	cide	d by a vote.	
			<b>(A)</b> V	Vithdrawn	(counted under	h in c	lisp	osition)	
			(B) N	lot related	(counted under	i in d	ispo	osition)	
	(check if	Χ	<b>(C)</b> F	Related an	d not persuasive (	(signi	fican	nt)	
Final	applicable)		(D) N	Not signific	cant (counted und	ler j i	n di	sposition)	
a			<b>(E)</b> a	ddressed	d persuasive and by technical chan	ge		DOCUMENT FAILS	
	(also al. M		(F) A	Addressed	by technical chan	ige (c	oun	ted under k disposition)	
	(check if applicable)		Comment generate	d. See Se	ction V-(ii) Comn	nent	# X.		

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

	Negative Text	сор	ied.		ve text (e.g., issue, justification	,		
	Hogalive Text	Tab Act		essage	name for Service name 'Carrie	rRecreate' should be Carrier		
TF i	nput (optional)	The	re is no such n	nessage	e or table; therefore it is not rela	ated.		
,	Withdrawal	X	No Negative w	ithdrawa	al made by Voter.	GO TO "Related" subsection		
	(check one)		Withdrawal doo MM/DD/YYYY.		received by Standards staff on	GO TO "Final" subsection → (A)		
	Motion and		'Related' is mu	tually ag	greed upon. (Needs no motion.)	GO TO "Persuasive" subsection		
	Reason	Χ	Negative is not	related.	. (Needs ≥2/3 votes to pass.)			
	(check one)		Reason		There is no such message or ta	ble; therefore it is not related.		
Rel	Motion by/ 2 <sup>nd</sup> by	Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)						
Related	Discussion	None						
		6Y-	0 N; Motion pas	sed.				
	Result of Vote (check one)		[Negative is not related.] < 2/3			GO TO "Persuasive" subsection		
	(oncon onc)	X	2/3 ≤ [Negative	is not re	elated.]	GO TO "Final" subsection → (B)		
			(A)	With	drawn (counted under h in disp	osition)		
		Χ	(B)	Not	related (counted under i in disp	osition)		
	(check if		(C)	Rela	ted and not persuasive (significar	nt)		
Final	applicable)		(D)		significant <mark>(counted under j in di</mark>	sposition)		
a			(E)	addr	ted and persuasive and not essed by technical change	DOCUMENT FAILS		
			(F)	Addı	ressed by technical change <mark>(cour</mark>	nted under k disposition)		
	(check if applicable)		Comment gene	erated. S	See Section V-(ii) Comment # X.			

# **Disposition of Voting Interest Reject 2**

Check only when the Document has not been failed.

3	Original	num	ber (#) of Negatives	(g)			
0	Number	of N	egatives withdrawn		(h)		
1	Number	of N	egatives found not related		(i)		
0	Number	of N	egatives found not significant		(j)		
0			egatives addressed by technic t significant)	al change (Negative	(k)		
			g - (h + i + j + k) = 0	Reject is Not Valid and denominator of § VI. A	is not included in the pproval Conditions Check		
	Final		g - (h + i +j + k) >0	Reject is included in the Approval Conditions C	he denominator of § VI. 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)

9	ative i							
	Referenced Section/		TC Chapter to fill in, inc			lot if I	nec	essary.
Neg	Paragraph	Refe	erenced Section/ Parag	raph:	8.4.2 ECV's			
Negative	_	*Ori		e text	t (e.g., issue, just	tificat	ion	, suggestion) should be
e	Negative Text		ing "EnableSpooling" i	s out	of scope from S	NARI	F.	
TF	input (optional)	mis: This	section 5.12.3.20. Enablesing from a summarizing is not listed in the SN/orial Change to the E30	ig list ARF.	i. It is also not a te	_		change. Instead it is an
	Withdrawal	X	No Negative withdrawal	made	by Voter.			GO TO "Related" subsection
	(check one)		Withdrawal document re MM/DD/YYYY.	ceive	ed by Standards st	aff on	)	GO TO "Final" subsection → (A)
Relat ed	Motion and Reason	X	'Related' is mutually agr	eed u	pon. (Needs no n	notio	n.)	GO TO "Persuasive" subsection
- at	(check one)		Negative is not related.	(Need	ls ≥2/3 votes to p	oass.)	)	
	Motion and Reason (check one)		Negative is related and p	oersu	asive. (Needs >1/	3 vot	es 1	to pass.)
		Х	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)					
			Reason (	new : 3.4.2	s not a technical change because E30 section 5.12.3.20 section is 7.12.3.20) already requires this ECV. Section is just a summarizing list. Listing or not listing eSpooling does not change E30 requirements.			
Per	Motion by/ 2 <sup>nd</sup> by	Bria	n Rubow (Cimetrix) / Albe					
sua.	Discussion	none	9					
Persuasive		6 Y-	0 N; Motion passed	-				
	Result of Vote		[Negative is related and persuasive.] > 1/3		Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection
	(check one)		[Negative is related and persuasive.] < 2/3	not	(check one)		N	GO TO "Final" subsection → (E)
			2/3 ≤ [Negative is related and not persuasive.] < 9		GO TO "Final" s	ubse	ctio	
		X	90% ≤ [Negative is relate and not persuasive.]		GO TO "Not Sign	nifica	nt F	Finding Option" subsection

Not Finc	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)							
t Sign	Use of "Not		It is mutually ag significant".	t is mutually agreed upon to term the Negative "not significant". GO TO "Fin → (D)				
Not Significant Finding Option	significant finding option" (check one)	X	It is mutually a "significant".	eed upon to term the Negative  GO TO "Final" subse  → (C)				
			Whether or not	the Negative is "not significant" is decide	d by a vote.			
			(A)	Withdrawn (counted under h in disp	osition)			
			(B)	Not related (counted under i in dispe	osition)			
	(check if	Χ	(C)	Related and not persuasive (significar	nt)			
Final	applicable)		(D)	Not significant (counted under j in di	sposition)			
<u>a</u>			(E)	Related and persuasive and not addressed by technical change	DOCUMENT FAILS			
			(F)	Addressed by technical change (cour	nted under k disposition)			
	(check if applicable)  Comment generated. See Section V-(ii) Comment # X.							

This table is needed for each Negative.

<u> </u>	ative 2									
Neç	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.  Referenced Section/ Paragraph: 1.1.4								
Negative	Negative Text	cop	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied. §11 is GEM Compliance. Not GEM Components.							
TF	input (optional)		s was a misunderstand editorial change.	ling of the text during ballot cre	eation and will be addressed					
	Withdrawal	X	No Negative withdrawa	GO TO "Related" subsection						
ı	(check one)		Withdrawal document re	GO TO "Final" subsection → (A)						
R	Motion and	X	'Related' is mutually ag	reed upon. (Needs no motion.)	GO TO "Persuasive" subsection					
Related	Reason		Negative is not related.	(Needs ≥2/3 votes to pass.)						
ed	(check one)		Reason							
Pe	Pe		Negative is related and	persuasive. (Needs >1/3 votes t	to pass.)					
Persuasive	Motion and Reason (check one)	X	Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							
ive	W. (Check one)		Reason	This was a misunderstanding creation and will be addressed						

	Motion by/ 2 <sup>nd</sup> by	Bria	Brian Rubow (Cimetrix) / Frank Summers (ISGI)						
	Discussion		6 Y-0 N; Motion passed.						
		6 Y-							
	Result of Vote	[Negative is related and persuasive.] > 1/3		and	Is a technical change recommended?	GO TO "Address by Technical Change Option" subsection			
	(check one)		[Negative is related persuasive.] < 2/3	and not	(check one)	N	GO TO "Final" subsection → (E)		
			2/3 ≤ [Negative is real		GO TO "Final" sı	ubsecti	on <b>→ (C)</b>		
		X	90% ≤ [Negative is and not persuasive.		GO TO "Not Sigr	ificant	Finding Option" subsection		
No Fin			sed only "if the TC the persons voting				suasive by a vote equal to or 6.4.4.2)		
t Sign iding	Use of "Not		It is mutually agreed significant".	d upon to	term the Negative '	'not	GO TO "Final" subsection → (D)		
Not Significant Finding Option	significant finding option" (check one)	X	It is mutually agreed "significant".	term the Negative		GO TO "Final" subsection → (C)			
	,		Whether or not the	Negative i	s "not significant" i	s decide	ed by a vote.		
			<b>(A)</b> V	Vithdrawn	(counted under h	in disp	position)		
			(B) N	Not related	l (counted under i	in disp	oosition)		
	(check if	Χ	<b>(C)</b> F	Related an	d not persuasive (	significa	int)		
Fina	applicable)		(D) N	Not signific	cant (counted und	er j in d	lisposition)		
a			( <b>E)</b>	ddressed	d persuasive and r by technical chang	ge	DOCUMENT FAILS		
			<b>(F)</b>	Addressed	by technical chan	ge <mark>(cou</mark>	nted under k disposition)		
	(check if applicable)		Comment generated	d. See Se	ction V-(ii) Comm	ent # X			

This table is needed for each Negative.

iveg	alive 5								
	Referenced	*TF/	*TF/TC Chapter to fill in, including text in the ballot if necessary.						
Neg	Section/ Paragraph	Refe	erenced Section/ Paragraph: RELATED INFORMATIO	N 1					
Negative	Negative Text	*Ori	ginal complete Negative text (e.g., issue, justification ied.	, suggestion) should be					
Almost figure shall rename "A.XXX" to "R.XXX" like "Figure R1-8.1".									
TF	input (optional)		be addressed by editorial changes by SEMI Publication numbering of figures and tables is editorial by nature						
Withdrawal (check one)  Motion and Reason		X	No Negative withdrawal made by Voter.	GO TO "Related" subsection					
				GO TO "Final" subsection → (A)					
		X	'Related' is mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection					

	(check one)	Negative is not re	Negative is not related. (Needs ≥2/3 votes to pass.)					
	(1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	140gative is not le						
		Reason						
	Madian and	Negative is related and persuasive. (Needs >1/3 votes to pass.)						
	Motion and Reason (check one)	X Negative is relate	d and not pe	ersuasive. (Needs	≥2/3 vo	tes to pass.)		
		Reason	The n	numbering of figu	res and	tables is editorial by nature.		
Po	Motion by/ 2 <sup>nd</sup> by	Brian Rubow (Cimetrix	κ) / Albert Fr	ank Summers (ISC	GI)			
Persuasive	Discussion	None						
ıasi		6 Y-0 N; Motion passe	ed.					
ve	Result of Vote	[Negative is relate persuasive.] > 1/3		Is a technical change recommended?	Y	GO TO "Address by Technical Change Option" subsection		
	(check one)	[Negative is relate persuasive.] < 2/3		(check one)	N	GO TO "Final" subsection → (E)		
		2/3 ≤ [Negative is and not persuasive		GO TO "Final" s	ubsectio	on <b>→ (C)</b>		
		X 90% ≤ [Negative and not persuasive		GO TO "Not Sig	nificant	Finding Option" subsection		
Fir		be used only "if the T of the persons votin				uasive by a vote equal to or .4.4.2)		
nt Sign	Use of "Not	It is mutually agreed upon to term the Negative "not significant".  GO TO "Final" subsect → (D)						
Not Significant Finding Option	significant finding option" (check one)	X It is mutually agre	ed upon to	term the Negative		GO TO "Final" subsection → (C)		
	,	Whether or not th	e Negative i	is "not significant"	is decide	d by a vote.		
		(A)	Withdrawn	(counted under l	n in disp	osition)		
		(B)	Not related	(counted under	i in disp	osition)		
	(check if	X (C)	Related an	d not persuasive (	significa	nt)		
Final	applicable)	(D)		ant <mark>(counted und</mark>		isposition)		
<u>a</u>		(E)	addressed	d persuasive and by technical chan	ge	DOCUMENT FAILS		
		(F)	Addressed	by technical chan	ge <mark>(cou</mark> i	nted under k disposition)		
	(check if applicable)	Comment genera	ted. See Se	ction V-(ii) Comn	nent # 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	num	ber (#) of Negatives	(g)	
0	Number	of N	egatives withdrawn		(h)
0	Number	of N	egatives found not related		(i)
0	Number	of N	egatives found not significant		(j)
0			egatives addressed by technic tsignificant)	al change (Negative	(k)
			$\mathbf{g} - (\mathbf{h} + \mathbf{i} + \mathbf{j} + \mathbf{k}) = 0$	Reject is Not Valid and denominator of § VI. A	is not included in the pproval Conditions Check
	Final		g - (h + i +j + k) >0	Reject is included in the Approval Conditions Conditions Conditions	ne denominator of § VI. 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)

## 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.									
ment	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).									
	Th	e TC Chapt	er a	greed to do one of the following actions.						
	*No motion is required in this step.									
>		Already addressed by Commenter #, Comment #								
Action		No further action was taken by the TC Chapter.								
] =		Refer to the TF for more consideration.								
		New Business								
	X	Editorial C	Chan	ge						
		Options		Case 1: No vote in this section:						
		for editorial	Х	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.						
		change		Case 2: Voted in this section:						
		(check one)		Original section number and at least one full sentence are required in "FROM" and "TO" fields.						

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

Com	*TF	/TC Chapte	er to f	ill in section/paragraph #, if necessary.				
Comment	prot	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.						
	The	e TC Chapt	er ag	reed to do one of the following actions.				
	*No	motion is	requi	ired in this step.				
Þ		Already addressed by Commenter #, Comment #						
Action	X	No further	o further action was taken by the TC Chapter.					
T		Refer to the TF for more consideration.						
		New Business						
		Editorial C	hange	е				
		Options		Case 1: No vote in this section:				
		for editorial		To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>				
		change		Case 2: Voted in this section:				
		(check one)		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.							
nent	In 6.2 and 6.2.1, § A.5 does not changed. I think it is necessary to change to § R1-5.							
	The	TC Chapt	ter aç	greed to do one of the following actions.				
	*No	motion is	requ	uired in this step.				
Þ		Already addressed by Commenter #, Comment #						
Action		No further action was taken by the TC Chapter.						
ľ		Refer to the TF for more consideration.						
		New Business						
	X	Editorial C	Chanç	ge				
		Options		Case 1: No vote in this section:				
		for editorial	X	To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.				
		change		Case 2: Voted in this section:				
		(check one)		Original section number and at least one full sentence are required in "FROM" and "TO" fields.				

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

Comment		TC Chapter to fill in section/paragraph #, if necessary.						
ment	file.	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)						
	The	e TC Chapt	ter aç	greed to do one of the following actions.				
	*No	motion is	requ	uired in this step.				
Þ		Already addressed by Commenter #, Comment #						
Action	Х	No further	No further action was taken by the TC Chapter.					
		Refer to the TF for more consideration.						
		New Business						
		Editorial C	hanç	ge				
		Options		Case 1: No vote in this section:				
		for editorial		To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.				
		change (check one)		Case 2: Voted in this section:				
				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)	Х	Reject 1 Negative 2 / Nishimura, Takayuki (SCREEN); Reject 3 Negative 2 / Matsuda, Mitsuhiro (Hitachi) Commenter 1 Comment 1 / Mochizuki, Tadashi (TEL)
	(Silver Gille)		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.

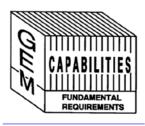


Figure 1
GEM Components

### 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)

Reject 1, Negative 3 / Nishimura, Takayuki (SCREEN); Reject 2, Negative 2 / Takasaki, Yoshihisa (SCREEN); Reject 3, Negative 3 / Matsuda, Mitsuhiro (Hitachi)

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/ 2 <sup>nd</sup> 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.

	X	<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)						
Motion			This is a Safety Document, when all safety-related information is removed, the Document is not technically sound and complete. ( <i>Regulations</i> ¶ 8.7.2)					
			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)					
	Motion by/2 <sup>nd</sup> by			Brian Rubow (Cimetrix) / Matsuda, Mitsuhiro (Hitachi Ltd)				
Discussion			ıssion	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</i> ¶ 8.8.1)				
	Х	No potentially material patented technology or reproduction of copyrighted items is known.	GO TO SECTION X.		

# X. Action for This Document

Motion		This Document passed TC Chapter review as balloted and will be forwarded to the ISC A 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 Docur	ment failed TC Chapter review and work will be discontinued.					
	Motion by/ 2 <sup>nd</sup> by		Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)					
	Discussion		NONE					
	Vote		6 Y-0N					
F	Final Action		X Motion passed					
			Motion failed					

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

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

<sup>\*</sup> 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.