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

Region/Locale: Korea

**Global Technical Committee: Information & Control** 

TC Chapter Cochairs: Chulhong Ahn/SK hynix, Kelvin Lee/Lam Research, Hyungsu Kim/Doople

Standards Staff: Natalie Shim

	Scheduled in Background Statement	Actual
Date	03/19/2021	04/09/2021
Location	SEMI Korea, Seoul	SEMI Korea, Seoul
Reason for Change of Date and/or Location (if changed)	Force majeure caused by the corona vi	rus.

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

## **Document Information**

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

Document	Number 6695	Document Title Line Item Revision to SEMI E87-0619 Specification for Carrier Management (CMS) and SEMI E87.1-0619 Specification for SECS-II Protocol for Carrier Management (CMS)
List of Line Items	Line Item 1	Line Item Title Modify the Statement of the "Carrier Ready To Unload Prediction" Specification

### **Line Item 1 Adjudication**

## II. Tally

Standards staff to fill in.

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

Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (*Regulations* ¶ 9.7.1.1)

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

91	÷	151		(0.20/	><00/
	÷	131	=	60.3%	≥60%
29					
1		Total	Vote	rs with Rejects	1
61					
	1	1	1 Total	1 Total Votes	1 Total Voters with Rejects

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

# III. Rejects

Voting Interest Reject 1 (Voting Interest Name: PEER Group)
Voter Reject 1 (Voter: Christian Hoffmann / PEER Group)

Negative 1

	Referenced Section/ Paragraph	*TF/TC Chapter to fill in, including text in the ballot if necessary.							
		*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.							
Z		The	state has b	een squeezed into the state machine and it ha	as resulted in the need for				
Negative		char	nging the n	umbering for the states as well as the transitio	ns. For the ease of				
ive	Namativa Tavt	impl	ementation	adjustments, I strongly recommend adding th	e new state to the end, i.e.,				
	Negative Text	asso	ociating SC	T #29 to its transition for entering the sub-state	e. Consequentially in E87.1 the				
		new	state shall	be represented as enum value 5 rather than i	njecting it as #1. Following this				
		sugg	gestion mad	de the modification more easy to adopt and all	owed for co-existence of				
		earli	er version	of the standard and its protocol as well.					
TF	input (optional)								
	Withdrawal	X	No Negati	ve withdrawal made by Voter.	GO TO "Related" subsection				
	(check one)		Withdrawa	Il document received by Standards staff on YYY.	GO TO "Final" subsection → (A)				
	Motion and	X	'Related' is	s mutually agreed upon. (Needs no motion.)	GO TO "Persuasive" subsection				
	Reason		Negative is	s not related. (Needs ≥2/3 votes to pass.)					
	(check one)		Reason	xxxx					
Related	Motion by/ 2 <sup>nd</sup> by	Nan	ne (Compa	ny)/Name (Company)					
<u>o</u>	Discussion								
	Result of Vote	XX '	Y-XX N; Mo	otion passed/failed.					
	(check one)		[Negative	is not related.] < 2/3	GO TO "Persuasive" subsection				

		2/3 ≤ [Negative is not related.]  GO TO "Final" subsectio  → (B)							
		Negative	e is related	d and persu	asive. (Needs >1/	3 vot	tes t	o pass.)	
		X Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)							
		As with the modification of the Status Diagram, the Transition N							
	Mation and							patibility with the earlier version	
	Motion and Reason		of the standard was not maintained. The reason						
	(check one)							easily because the transition to the order in which transitions	
		Reason		•	, ,		•	the CaRTUP function has been	
						-		plied in many cases, and there	
Pers			may be	an opportu	unity to change the	Tran	nsitic	on Number sequentially.	
Persuasive			I look f	orward to y	our understanding				
ive	Motion by/ 2 <sup>nd</sup> by	Byoung Min Im(Tokyo Electron Korea) / Jongsub Shim(ASMK)							
	Discussion	None							
	Result of Vote (check one)	9 <b>Y</b> - 0 <b>N</b> ; Mo	tion passe	ed.					
			e is relate ive.] > 1/3	Is a technical change recommended?		Y	GO TO "Address by Technical Change Option" subsection		
		[Negative is related and not persuasive.] < 2/3			(check one)		N	GO TO "Final" subsection → (E)	
			egative is persuasiv	GO TO "Final" subsection → (C)					
		x 90% ≤ [Negative is related and not persuasive.]			GO TO "Not Significant Finding Option" subsection				
					finds a Negative i ction". ( <i>Regulati</i> o			uasive by a vote equal to or 4.4.2)	
N N								,	
ot Sig	Use of "Not		It is mutually agreed upon to term the Negative "not significant".					GO TO "Final" subsection → (D)	
Not Significant Finding Option	significant finding option" (check one)		III IS MITICALLY SALEDA LIDAN TO TARM THE INDUSTRIAL				GO TO "Final" subsection → (C)		
Ħ Fi	(011001101)	Whethe	r or not the	e Negative	is "not significant"	is ded	cide	d by a vote.	
ndin	Motion	The Negative	is "not si	gnificant".				-	
ід Ор	Motion by/ 2 <sup>nd</sup> by	Name (Comp	oany)/Nam	ne (Compar	ny)				
tion	Vote	XX Y-XX	N; Motio	n passed w	rith simple majority	,		GO TO "Final" subsection → (D)	
	VOIG	XX Y-XX	<b>⟨ N</b> ; Motio	n failed with	n simple majority			GO TO "Final" subsection → (C)	
Ţ	(check if		<b>A</b> )		(counted under l			,	
Final	applicable)		B)		(counted under			,	
			(C) Related and not persuasive (significant)						

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

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

Check only when the Document has not been failed.

1	Original number (#) of Negatives (g)							
0	Number of Negatives withdrawn (h)							
0	Number	of N	egatives found not related		(i)			
1	Number of Negatives found not significant (j)							
0			egatives addressed by technic tsignificant)	al change (Negative	(k)			
	Final		g - (h + i + j + k) = 0	Reject is Not Valid and denominator of § VI. A	is not included in the pproval 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				

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 (Yao Ming / SMEE) - Comment 1

Com	*TF	/TC Chapter to fill in section/paragraph #, if necessary.					
mment		From the description of trigger 24, we still don't know how to determine to get into the PREDICTED state.					
	The TC Chapter agreed to do one of the following actions.						
Action	*No	motion is required in this step.					
ion		Already addressed by Commenter #, Comment #					
	X	No further action was taken by the TC Chapter.					

	Refer to the TF for more consideration.
	New Business
	Editorial Change

Commenter 1 (Yao Ming / SMEE) - Comment 2

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.						
ment		if the exception occurred after Tp, it should enter either PREDICT ABORTED or PREDICTION COMPLETED state?					
	Th	The TC Chapter agreed to do one of the following actions.					
	*No	*No motion is required in this step.					
Þ		Already addressed by Commenter #, Comment #					
Action	X	No further action was taken by the TC Chapter.					
	Refer to the TF for more consideration.						
		New Business					
		Editorial Change					

Commenter 2 (Gino Crispieri / Gino Crispieri) - Comment 1

Com	*TF	*TF/TC Chapter to fill in section/paragraph #, if necessary.						
Comment	car	It appear to me that the state been proposed is not needed. The carrier object is created when a carrier is been known by the equipment. Therefore you either have prediction disabled or you are waiting to predict if predictions is enabled.						
	Th	The TC Chapter agreed to do one of the following actions.						
	*No	*No motion is required in this step.						
<b>&gt;</b>		Already addressed by Commenter #, Comment #						
Action	X	No further action was taken by the TC Chapter.						
		Refer to the TF for more consideration.						
		New Business						
		Editorial Change						

Commenter 3 (Mie Sasaki / TokyoSeimitsu) - Comment 1

Comment	*TF	/TC Chapter to fill in section/paragraph #, if necessary.					
ment		Is the state "WAITING FOR CARRIER" added to the model diagram showing the state of the carrier? I think it is the load port that waits for the carrier, not the carrier itself.					
	The TC Chapter agreed to do one of the following actions.						
Action	*No	motion is required in this step.					
ion		Already addressed by Commenter #, Comment #					
	X	No further action was taken by the TC Chapter.					

	Refer to the TF for more consideration.
	New Business
	Editorial Change

Commenter 4 (Srinidhi Upadhya / Lam Research) - Comment 1

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.						
nent	Out	Out of current scope for Fundamental GEM300 requirements.					
	The TC Chapter agreed to do one of the following actions.						
	*No	*No motion is required in this step.					
A		Already addressed by Commenter #, Comment #					
Action	X	No further action was taken by the TC Chapter.					
		Refer to the TF for more consideration.					
		New Business					
		Editorial Change					

# V-(ii) Comments Created by Handling Negative None

# VI. Editorial Changes Other than Those Voted on in § V None

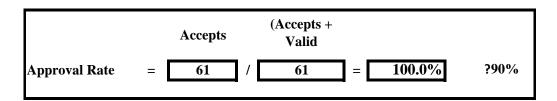
# **VII. Approval Conditions Check**

#### 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* ¶ 9.7.1.2)

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.



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

Note: See Regulations § 9.7.2 for further information.

X	Globally Approved (No Ratification Ballot needed): Line Item 1 meets the Letter Ballot approval conditions for the global technical committee.
	Need a Ratification Ballot: Line Item 1 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

### Checks for Entire Document Including All Approved Line Items

## VIII. Safety Check

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

Motio	X	Th is s	<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)						
			This is a Safety Document, when all safety-related information is removed, the Document is not technically sound and complete. ( $Regulations $ ¶ 8.7.2)						
		Safety Checklist ( <i>Regulations</i> ¶ 15.3) is complete and has been included with the Documen throughout the balloting process. ( <i>Regulations</i> ¶ 15.1.2)							
	Moti		oy/2 <sup>nd</sup> by	Byoung Min Im (Tokyo Electron Korea) / Hyungsu Kim (Doople)					
	D		ıssion	None					
		Vote		9 Y- 0 N; Motion passed.					

## IX. Intellectual Property (IP) Check

Note: This IP check <u>applies to the entire Standard or Safety Guideline</u> including all the approved Line Items. See § 16 of the *Regulations* for further information.

X	mate	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)					
	X		otentially material patented technology or reproduction of righted items is known.	GO TO SECTION X.			
		copy copy	ntially material patented technology or reproduction of righted items is known, but a Letter of Assurance (LOA) or right release letter for such items has been obtained or ented to the TC Chapter.	GO TO SECTION X.			
		use o	Potentially material patented technology or reproduction of copyrighted items is known and use of such materials is technically justified by the TC Chapter, but an LOA or copyright release letter for some of the item(s) has NOT been obtained or presented to the TC Chapter.				
	∘≤	Ask ISC for special permission to publish.					

			Quit activ	ity.	
	Wait for LOA for patented technology or releas				patented technology or release of copyrighted items.
	Motion by/2 <sup>nd</sup> by Byou		Byou	ing Min Im (Tokyo Electron Korea) / Hyungsu Kim (Doople)	
	Discussion		None		
	Vote		9 Y- (	) N	
	Final Action		X	Motion passed	
			CHOIT		Motion failed

<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.

### X. Action for This Document

ap	X	Line item [1] passed TC Chapter review as balloted and will be forwarded to the ISC A SC for procedural review.					
Ma (Cha			Line item(s) [X], [X] and [X] passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.				
Motion (Check all applicable items)		withou	Line item(s) [X], [X] and [X] passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.				
ls)		Line item(s) [X], [X] and [X] failed TC Chapter review and will be returned to the TF for r					
		Line ite	em(s) [X], [X] and [X] failed TC Chapter review and work will be discontinued.				
Motion b	n by/ 2nd by		Byoung Min Im (Tokyo Electron Korea) / Hyungsu Kim (Doople)				
Discu	scussion		None				
Vo	ote		9 Y- 0 N				
Final	inal Action		X Motion passed				
Final			Motion failed				

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

		Line item(s) [X], [X] and [X] are Approved for publication								
A&R		Line item(s) [X], [X] and [X] are Approved pending acceptance of the Ratification Ballot								
710.11		Line item(s) [X], [X] and [X] are Not approved								
	Reason:									