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 5738	Document Title REVISION TO SEMI E87.1-0707 with title change to: *SPECIFICATION FOR SECS-II PROTOCOL FOR CARRIER MANAGEMENT (CMS)*

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)	4		**Total Voters with Rejects**		4	
Voting Interest Accept(s)	37					

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

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III. Rejects

Voting Interest Reject 1 (Voting Interest Name: SCREEN)
Voter Reject 1 (Voter: Nishimura, Takayuki / Screen)
Negative 1

<table>
<tr>
<td rowspan="4">Negative</td>
<td rowspan="2">Referenced Section/ Paragraph</td>
<td colspan="4">*TF/TC Chapter to fill in, including text in the ballot if necessary.</td>
</tr>
<tr>
<td colspan="4">Table 5</td>
</tr>
<tr>
<td rowspan="2">Negative Text</td>
<td colspan="4">*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</td>
</tr>
<tr>
<td colspan="4">Table 5:
Range is changed for Capacity from 25 to 255
E87.1 is SECS mapping subordinary standard, so if definition is necessary, E87 should be modified.</td>
</tr>
<tr>
<td colspan="2">TF input (optional)</td>
<td colspan="4"></td>
</tr>
<tr>
<td colspan="2" rowspan="2">Withdrawal (check one)</td>
<td>X</td>
<td colspan="2">No Negative withdrawal made by Voter.</td>
<td>GO TO "Related" subsection</td>
</tr>
<tr>
<td></td>
<td colspan="2">Withdrawal document received by Standards staff on MM/DD/YYYY.</td>
<td>GO TO "Final" subsection → (A)</td>
</tr>
<tr>
<td rowspan="3">Related</td>
<td rowspan="3">Motion and Reason (check one)</td>
<td>X</td>
<td colspan="2">'Related' is mutually agreed upon. (Needs no motion.)</td>
<td>GO TO "Persuasive" subsection</td>
</tr>
<tr>
<td></td>
<td colspan="3">Negative is not related. (Needs ≥2/3 votes to pass.)</td>
</tr>
<tr>
<td></td>
<td>Reason</td>
<td colspan="2"></td>
</tr>
<tr>
<td rowspan="6">Persuasive</td>
<td rowspan="4">Motion and Reason (check one)</td>
<td></td>
<td colspan="3">Negative is related and persuasive. (Needs >1/3 votes to pass.)</td>
</tr>
<tr>
<td>X</td>
<td colspan="3">Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)</td>
</tr>
<tr>
<td></td>
<td>Reason</td>
<td colspan="2">E87 is not limited to 25 slot 300mm carriers. Some implementations of E87 use carriers which are not size 25. Changing the range would not affect implementations which have actual capacity 25, yet allows other to use carrier of larger size. E87 does not limit capacity to 25.

Some equipment using E87.1 already are using Capacity values greater than 25. Restricting to 25 makes these equipment unnecessarily non-compliant.

Allowing up to 255 slots in a carrier does not affect existing implementations of E87.1 that have 25 slot carriers.

E87 does not limit carriers to 25. This seems to be intentionally not restricted.</td>
</tr>
<tr>
<td colspan="4"></td>
</tr>
<tr>
<td>Motion by/ 2nd by</td>
<td colspan="4">Brian Rubow (Cimetrix) / Frank Summers (ISGDI)</td>
</tr>
<tr>
<td>Discussion</td>
<td colspan="4">None</td>
</tr>
</table>

			6 **Y**-0 **N**; Motion passed

Result of Vote **(check one)**			[Negative is related and persuasive.] > 1/3	**Is a technical change recommended?** **(check one)**	**Y**	**GO TO "Address by Technical Change Option" subsection**
			[Negative is related and not persuasive.] < 2/3		**N**	**GO TO "Final" subsection → (E)**
			2/3 ≤ [Negative is related and not persuasive.] < 90%	**GO TO "Final" subsection → (C)**		
		X	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)		It is mutually agreed upon to term the Negative "not significant".	**GO TO "Final" subsection → (D)**		
		X	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)**		**(A)**	Withdrawn **(counted under h in disposition)**		
			(B)	Not related **(counted under i in disposition)**		
		X	**(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 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 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 2 (Voting Interest Name: SCREEN)
Voter Reject 1 (Voter: Takasaki, Yoshihisa / SCREEN)

Negative 1

<table>
<tr>
<td rowspan="5">Negative</td>
<td rowspan="2">Referenced Section/ Paragraph</td>
<td colspan="4">*TF/TC Chapter to fill in, including text in the ballot if necessary.</td>
</tr>
<tr>
<td colspan="4">Table 5</td>
</tr>
<tr>
<td rowspan="3">Negative Text</td>
<td colspan="4">*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</td>
</tr>
<tr>
<td colspan="4">Table5 Capacity:
The capacity range should be defined in E87, not E87.1.
Maximum number '255' is not able to be implemented physically.
It should be physically feasible value.</td>
</tr>
<tr>
<td colspan="4"></td>
</tr>
<tr>
<td colspan="2">TF input (optional)</td>
<td colspan="4"></td>
</tr>
<tr>
<td colspan="2" rowspan="2">Withdrawal (check one)</td>
<td>X</td>
<td colspan="2">No Negative withdrawal made by Voter.</td>
<td>GO TO "Related" subsection</td>
</tr>
<tr>
<td></td>
<td colspan="2">Withdrawal document received by Standards staff on MM/DD/YYYY.</td>
<td>GO TO "Final" subsection → (A)</td>
</tr>
<tr>
<td rowspan="3">Related</td>
<td rowspan="3">Motion and Reason (check one)</td>
<td>X</td>
<td colspan="2">'Related' is mutually agreed upon. (Needs no motion.)</td>
<td>GO TO "Persuasive" subsection</td>
</tr>
<tr>
<td></td>
<td colspan="2">Negative is not related. (Needs ≥2/3 votes to pass.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reason</td>
<td></td>
<td></td>
</tr>
<tr>
<td rowspan="9">Persuasive</td>
<td rowspan="4">Motion and Reason (check one)</td>
<td></td>
<td colspan="3">Negative is related and persuasive. (Needs >1/3 votes to pass.)</td>
</tr>
<tr>
<td>X</td>
<td colspan="3">Negative is related and not persuasive. (Needs ≥2/3 votes to pass.)</td>
</tr>
<tr>
<td></td>
<td>Reason</td>
<td colspan="2">E87 is not limited to 25 slot 300mm carriers. Some implementations of E87 use carriers which are not size 25. Changing the range would not affect implementations which have actual capacity 25, yet allows other to use carrier of larger size. E87 does not limit capacity to 25.

Some equipment using E87.1 already are using Capacity values greater than 25. Restricting to 25 makes these equipment unnecessarily non-compliant.

Allowing up to 255 slots in a carrier does not affect existing implementations of E87.1 that have 25 slot carriers.

E87 does not limit carriers to 25. This seems to be intentionally not restricted.</td>
</tr>
<tr>
<td></td>
<td></td>
<td colspan="2"></td>
</tr>
<tr>
<td colspan="2">Motion by/ 2nd by</td>
<td colspan="3">Brian Rubow (Cimetrix) / Frank Summers (ISGI)</td>
</tr>
<tr>
<td colspan="2">Discussion</td>
<td colspan="3"></td>
</tr>
<tr>
<td colspan="2" rowspan="3">Result of Vote (check one)</td>
<td colspan="3">6 Y-0 N; Motion passed</td>
</tr>
<tr>
<td>[Negative is related and persuasive.] > 1/3</td>
<td>Is a technical change recommended? (check one)</td>
<td>Y</td>
<td>GO TO "Address by Technical Change Option" subsection</td>
</tr>
<tr>
<td>[Negative is related and not persuasive.] < 2/3</td>
<td></td>
<td>N</td>
<td>GO TO "Final" subsection → (E)</td>
</tr>
</table>

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			2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)
		X	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)		It is mutually agreed upon to term the Negative "not significant".	GO TO "Final" subsection → (D)
		X	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.	
	Motion	The Negative is "not significant".		
	Motion by/ 2nd by			
	Vote		0 Y-0 N; Motion passed with simple majority	GO TO "Final" subsection → (D)
			XX Y-XX N; Motion failed with simple majority	GO TO "Final" subsection → (C)
Final	**(check if applicable)**		(A)	Withdrawn **(counted under h in disposition)**
			(B)	Not related **(counted under i in disposition)**
		X	(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.

1	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. *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

<table>
<tr><td rowspan="4">Negative</td><td rowspan="2">Referenced Section/ Paragraph</td><td colspan="4">*TF/TC Chapter to fill in, including text in the ballot if necessary.</td></tr>
<tr><td colspan="4">Referenced Section/ Paragraph: Table 1 / column "CarrierReCreate"</td></tr>
<tr><td rowspan="2">Negative Text</td><td colspan="4">*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.</td></tr>
<tr><td colspan="4">"SECS-II Message Name" shall be "Carrier Action Request/Acknowledge".</td></tr>
<tr><td colspan="2">TF input (optional)</td><td colspan="4">This is not a technical change. The intended reference is clear. Will be addressed by editorial change #1.</td></tr>
<tr><td colspan="2" rowspan="2">Withdrawal
(check one)</td><td>X</td><td colspan="2">No Negative withdrawal made by Voter.</td><td>GO TO "Related" subsection</td></tr>
<tr><td></td><td colspan="2">Withdrawal document received by Standards staff on MM/DD/YYYY.</td><td>GO TO "Final" subsection → (A)</td></tr>
<tr><td rowspan="2">Related</td><td rowspan="2">Motion and Reason
(check one)</td><td>X</td><td colspan="2">'Related' is mutually agreed upon. (Needs no motion.)</td><td>GO TO "Persuasive" subsection</td></tr>
<tr><td></td><td colspan="2">Negative is not related. (Needs ≥2/3 votes to pass.)</td><td></td></tr>
</table>

Persuasive	**Motion and Reason (check one)**			
		Negative is related and persuasive. **(Needs >1/3 votes to pass.)**		
	X	Negative is related and not persuasive. **(Needs ≥2/3 votes to pass.)**		
	■	Reason	This is not a technical change. The intended reference is clear. Will be addressed by editorial change #1.	
	Motion by/ 2nd by	Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)		
	Discussion	none		

Result of Vote (check one)

6 **Y**-0 **N**; Motion passed

	[Negative is related and persuasive.] > 1/3	**Is a technical change recommended?** (check one)	Y	GO TO "Address by Technical Change Option" subsection
	[Negative is related and not persuasive.] < 2/3		N	GO TO "Final" subsection → (E)
	2/3 ≤ [Negative is related and not persuasive.] < 90%	GO TO "Final" subsection → (C)		
X	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)			
		It is mutually agreed upon to term the Negative "not significant".	GO TO "Final" subsection → (D)
	X	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)**		**(A)**	Withdrawn **(counted under h in disposition)**	
			(B)	Not related **(counted under i in disposition)**	
		X	**(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.		

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: Table 3 / column "Used by S3,F27 …"		
	Negative Text	***Original complete Negative text (e.g., issue, justification, suggestion) should be copied.***		
		"CancelCarrier", "CarrierOut" and "CarrierRelease" shall be listed in this column		
TF input (optional)		**Voter intended a different row, for S3, F17.** **Negative be addressed with editorial change #2.**		
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)**	X	'Related' is mutually agreed upon. **(Needs no motion.)**	**GO TO "Persuasive" subsection**
			Negative is not related. **(Needs ≥2/3 votes to pass.)**	
			Reason	
Persuasive	**Motion and Reason (check one)**		Negative is related and persuasive. **(Needs >1/3 votes to pass.)**	
		X	Negative is related and not persuasive. **(Needs ≥2/3 votes to pass.)**	
			Reason	The discovered error is corrected by Editorial Change #2 The three additional services CarrierRelease, CarrierOut and CancelCarrier are already linked to the S3, F17 in Table 6 Services Message Mapping Table. Therefore this is not a technical change. It is a correction to the summarizing list in Table 8.
	Motion by/ 2nd by	Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)		
	Discussion			
		6 **Y**-0 **N**; Motion passed.		

	Result of Vote (check one)		[Negative is related and persuasive.] > 1/3	**Is a technical change recommended? (check one)**	Y	**GO TO "Address by Technical Change Option" subsection**
			[Negative is related and not persuasive.] < 2/3		N	**GO TO "Final" subsection → (E)**
			2/3 ≤ [Negative is related and not persuasive.] < 90%	**GO TO "Final" subsection → (C)**		
		X	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)		It is mutually agreed upon to term the Negative "not significant".	**GO TO "Final" subsection → (D)**		
		X	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)**		**(A)**	Withdrawn **(counted under h in disposition)**		
			(B)	Not related **(counted under i in disposition)**		
		X	**(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.			

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: Table 3 / column "Used by S3,F25 …"		
	Negative Text	***Original complete Negative text (e.g., issue, justification, suggestion) should be copied.**		
		"ChangeServiceState" shall be listed in this column.		
TF input (optional)				
	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)**	X	'Related' is mutually agreed upon. **(Needs no motion.)**	**GO TO "Persuasive" subsection**
			Negative is not related. **(Needs ≥2/3 votes to pass.)**	
			Reason	

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Persuasive	**Motion and Reason (check one)**			Negative is related and persuasive. **(Needs >1/3 votes to pass.)**			
		X		Negative is related and not persuasive. **(Needs ≥2/3 votes to pass.)**			
		■	Reason		The intended reference is clear. It has been this way for 15 years without causing confusion. No changes needed.		
	Motion by/ 2nd by	Brian Rubow (Cimetrix) / Albert Fuchigami (PEER Group)					
	Discussion	None					
	Result of Vote (check one)	6 **Y**-0 **N**; Motion passed.					
			[Negative is related and persuasive.] > 1/3	**Is a technical change recommended? (check one)**		**Y**	**GO TO "Address by Technical Change Option" subsection**
			[Negative is related and not persuasive.] < 2/3			**N**	**GO TO "Final" subsection → (E)**
			2/3 ≤ [Negative is related and not persuasive.] < 90%	**GO TO "Final" subsection → (C)**			
		X	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)		It is mutually agreed upon to term the Negative "not significant".		**GO TO "Final" subsection → (D)**		
		X	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.				
	Motion	The Negative is "not significant".					
	Motion by/ 2nd by	Name (Company)/Name (Company)					
	Vote		XX **Y**-XX **N**; Motion passed with simple majority		**GO TO "Final" subsection → (D)**		
			XX **Y**-XX **N**; Motion failed with simple majority		**GO TO "Final" subsection → (C)**		
Final	**(check if applicable)**		**(A)**	Withdrawn **(counted under h in disposition)**			
			(B)	Not related **(counted under i in disposition)**			
		X	**(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.				

This table is needed for each Negative.

Negative 4

φ N		***TF/TC Chapter to fill in, including text in the ballot if necessary.**

	Referenced Section/ Paragraph	**Referenced Section/Paragraph: Table 4, Table 5;**		
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.*		
		Referenced Section/ Paragraph: Table 4 / column "SlotMap", Table 5 / column "Capacity" and Table 5 / column "SubstrateCount" E87 definition of Capacity is as following. Current Maximum number of substrates in a carrier is 25, so "Capacity" is mapping to 51. Range shall not exceed its base concept in subordinate (mapping) Standard to avoid misleading. It is better to keep Capacity Range: "1..25"		
TF input (optional)				
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)**	X	'Related' is mutually agreed upon. **(Needs no motion.)**	**GO TO "Persuasive" subsection**
			Negative is not related. **(Needs ≥2/3 votes to pass.)**	
			Reason	
Persuasive	**Motion and Reason (check one)**		Negative is related and persuasive. **(Needs >1/3 votes to pass.)**	
		X	Negative is related and not persuasive. **(Needs ≥2/3 votes to pass.)**	
			Reason	E87 is not limited to 25 slot 300mm carriers. Some implementations of E87 use carriers which are not size 25. Changing the range would not affect implementations which have actual capacity 25, yet allows other to use carrier of larger size. E87 does not limit capacity to 25. Some equipment using E87.1 already are using Capacity values greater than 25. Restricting to 25 makes these equipment unnecessarily non-compliant. Allowing up to 255 slots in a carrier does not affect existing implementations of E87.1 that have 25 slot carriers. E87 does not limit carriers to 25. This seems to be intentionally not restricted.
	Motion by/ 2nd by	Brian Rubow (Cimetrix) / Frank Summers (ISGI)		
	Discussion	None		
	Result of Vote (check one)	6 **Y**-0 **N**; Motion passed		
			[Negative is related and persuasive.] > 1/3	**Is a technical change recommended? (check one)**	Y	**GO TO "Address by Technical Change Option" subsection**
			[Negative is related and not persuasive.] < 2/3		N	**GO TO "Final" subsection → (E)**
			2/3 ≤ [Negative is related and not persuasive.] < 90%	**GO TO "Final" subsection → (C)**		
		X	90% ≤ [Negative is related and not persuasive.]	**GO TO "Not Significant Finding Option" subsection**		

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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)			It is mutually agreed upon to term the Negative "not significant".	**GO TO "Final" subsection → (D)**
		X		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)**		**(A)**	Withdrawn **(counted under h in disposition)**	
			(B)	Not related **(counted under i in disposition)**	
		X	**(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 3

Check only when the Document has not been failed.

4	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. *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 4 (Voting Interest Name: PEER Group)
Voter Reject 1 (Voter: Albert Fuchigami / PEER Group)
Negative 1

N e		***TF/TC Chapter to fill in, including text in the ballot if necessary.***

	Referenced Section/ Paragraph	Table 2 – Service Parameters to SECS-II Data Items Mapping does not consistently specify format codes in the Range comments for all items (For example, AccessMode parameter should specify format 51		
	Negative Text	*Original complete Negative text (e.g., issue, justification, suggestion) should be copied.*		
		Does it make sense to add a comment along the lines of "Data Type restrictions may conflict with the newer 300 mm standards and therefore, the constraints found within the newer standards shall take precedence over the restrictions found in SEMI E87" (Similar to comment in Ballot 6066A v1.0 – Line Item #1)		
TF input (optional)				
Withdrawal (check one)			No Negative withdrawal made by Voter.	**GO TO "Related" subsection**
		X	Withdrawal document received by Standards staff on 04/04/2017.	**GO TO "Final" subsection → (A)**
Final	**(check if applicable)**	X	**(A)**	Withdrawn **(counted under h in disposition)**
			(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
			(F)	Addressed by technical change **(counted under k disposition)**
	(check if applicable)		Comment generated. **See Section V-(ii) Comment #** X.	

Note: rows (E)/(F) carry **DOCUMENT FAILS** in the right column.

This table is needed for each Negative.

Disposition of Voting Interest Reject 4

Check only when the Document has not been failed.

1	Original number (#) of Negatives	**(g)**
1	Number of Negatives withdrawn	**(h)**
0	Number of Negatives found not related	**(i)**
0	Number of Negatives found not significant	**(j)**
0	Number of Negatives addressed by technical change **(Negative becomes not significant)**	**(k)**
Final	X	$g - (h + i + j + k) = 0$	**Reject is Not Valid and is not included in the denominator of § VI. *Approval Conditions Check***
		$g - (h + i + j + k) > 0$	**Reject is included in the denominator of § VI. *Approval Conditions Check***
		Reject without a Negative	**Not Valid**

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 Table 1 Service Message Mapping Table, about SECS-II Message Name of CarrierReCreate, "Carrier Action Request/Acknowledge" is correct.			
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. Editorial Changes Other than Those Voted on in § V.	
			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)**		Commenter 1 Comment 1 / Mochizuki, Tadashi (TEL) Reject 3 Negative 1 / Matsuda Mitsuhiro (Hitachi)
			Other [ ]
	FROM: Section/Paragraph Table 6 "Services Message Mapping Table"		
	CarrierReCreate	S3,F17/18	CarrierReCreate ~~Rquest~~ Request/Acknowledge

<table>
<tr><td colspan="2">TO: Section/Paragraph
Table 6 "Services Message Mapping Table"</td></tr>
</table>

CarrierReCreate	S3,F17/18	Carrier Action ~~ReCreate Rquest~~ Request/Acknowledge

Justification: (If necessary)
This is not a technical change. The intended reference is clear.

<table>
<tr>
<td rowspan="8">2</td>
<td colspan="2">Origin of this editorial change
(Check one)</td>
<td colspan="2">Reject 3 Negative 2 / Matsuda Mitsuhiro (Hitachi)</td>
</tr>
<tr>
<td colspan="2"></td>
<td colspan="2">Other [   ]</td>
</tr>
</table>

FROM: Section/Paragraph
Table 8 "Additional Data Item Requirements Table"

Function	SECS-II Data Item
Used by S3,F17 to differentiate between Bind, CancelCarrierOut, CancelCarrierAtPort, CancelBind, CarrierIn, ProceedWithCarrier, CancelCarrierNotification CarrierNotification ~~services, and~~ CarrierReCreate	CARRIERACTION

TO: Section/Paragraph
Table 8 "Additional Data Item Requirements Table"

Function	SECS-II Data Item
Used by S3,F17 to differentiate between Bind, CancelCarrierOut, CancelCarrierAtPort, CancelBind, CarrierIn, ProceedWithCarrier, CancelCarrierNotification CarrierNotification ~~services, and~~ CarrierReCreate, CancelCarrier, CarrierOut and CarrierRelease services.	CARRIERACTION

Justification: (If necessary)
The three additional services CarrierRelease, CarrierOut and CancelCarrier are already linked to the S3,F17 in Table 6 Services Message Mapping Table. Therefore this is not a technical change. It is a correction to the summarizing list in Table 8.

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	=	37	/	40	=	92.5%	≥90%

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

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

X	**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	X	**This is not a Safety Document**, when all safety-related information is removed, the Document is still technically sound and complete. (*Regulations* ¶ 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 (*Regulations* ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (*Regulations* ¶ 15.1.2)
Motion by/2nd 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. (*Regulations* ¶ 8.8.1)	
	X	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&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

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