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

Region/Locale: Japan

Global Technical Committee: Automation Technology

TC Chapter Cochairs: Teruaki Ito / Mitsubishi Electric, Terry Asakawa / Vistaideal Consulting,

Fumiyasu Ohbuchi / SIEMENS

Standards Staff: Mizue Iwamura, SEMI Japan

	Scheduled in Background Statement	Actual
Date	07/24/2019	07/24/2019
Location	SEMI Japan, Tokyo, Japan	SEMI Japan, Tokyo, Japan
Reason for Change of Date and/or Location (if changed)	•	

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

Document Information

I. Document Number, Title, Lists of Line Items

Doc 6478	ument Number	Document Title Line Item Revision to SEMI A2-0419: Specification for Surface Mount Assembler Smart Hookup (SMASH)
	Line Item 1	Line Item Title Unify expressions 'Line Number' and 'LineID', 'Track Number' and 'TrackID'.
	Line Item 2	Line Item Title Change EquipID from BYTE to WORD.
<u></u>	Line Item 3	Line Item Title Improve NetConfig and RouteConfig parameters.
List of Li	Line Item 4	Line Item Title Specify Material Handoff Scenarios to be implemented.
Line Items	Line Item 5	Line Item Title Change execution and propagation timing of SetRouteSpec.
ns	Line Item 6	Line Item Title Add TOP/BOTTOM to SetRouteSpec message.
	Line Item 7	Line Item Title Fill unused bytes of parameters with NULL.
	Line Item 8	Line Item Title Add suggested signal conversion and conveyor width adjustment to Related Information 1.

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* ¶ 9.6.2.1.1)

Voting Tally (with example values):

	1				
75	÷	125	=	60.0%	≥60%
47					
0		Total	Vote	rs with Rejects	0
57					
	0	0	0 Total	0 Total Votes	0 Total Voters with Rejects

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

III. Rejects None

IV. Other Technical Issues None

V. Comments V- (i) Voters' Comments None

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

VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.6.2.1.2)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.6.2.1.3)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	57	/	57	=	100.0%	≥90%

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

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.

Line Item 2 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* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Returned Votes		Distribution		Return Rate	
75] ÷	125	=	60.0%	≥60%
47					
0		Total	Vote	rs with Rejects	0
57					
	75 47 0	75 ÷ 47	75 ÷ 125 47 0 Total	75 ÷ 125 = 47 0 Total Votes	75 ÷ 125 = 60.0% 47 0 Total Voters with Rejects

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

III. Rejects None

IV. Other Technical Issues None

V. Comments
V- (i) Voters' Comments
None

V-(ii) Comments Created by Handling Negative None

VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (Regulations ¶ 9.6.2.1.2)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (Regulations ¶ 9.6.2.1.3)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	57	/	57	=	100.0%	≥90%

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

Note	: See Regulations § 9.6.2 for further information.
X	Globally Approved (No Ratification Ballot needed): Line Item 2 meets the Letter Ballot approval conditions for the global technical committee.
	Need a Ratification Ballot: Line Item 2 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

Line Item 3 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* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes		Distribution		Return Rate	
Letter Ballot	75	ļ÷	125	=	60.0%	≥60%
Intercommittee Ballot	47					
Voting Interest Reject(s)	0		Total	Vote	rs with Rejects	0
Voting Interest Accept(s)	53					

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

III. Rejects None

IV. Other Technical Issues None

V. Comments
V- (i) Voters' Comments
None

V-(ii) Comments Created by Handling Negative None

VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.6.2.1.2)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.6.2.1.3)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	53	1	53	=	100.0%	≥90%

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

X	Globally Approved (No Ratification Ballot needed): Line Item 2 meets the Letter Ballot approval conditions for the global technical committee.
	Need a Ratification Ballot: Line Item 2 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

Line Item 4 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* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Returned Votes		Distribution		Return Rate	
75] ÷	125	=	60.0%	≥60%
47					
0		Total	Vote	rs with Rejects	0
53					
	75 47 0	75 ÷ 47 0	75 ÷ 125 47 0 Total	75 ÷ 125 = 47 0 Total Vote	75 ÷ 125 = 60.0% 47 0 Total Voters with Rejects

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

III. Rejects None

IV. Other Technical Issues None

V. Comments
V- (i) Voters' Comments
None

V-(ii) Comments Created by Handling Negative None

VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.6.2.1.2)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.6.2.1.3)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	53	/	53	=	100.0%	≥90%

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

X	Globally Approved (No Ratification Ballot needed): Line Item 2 meets the Letter Ballot approval conditions for the global technical
	Need a Ratification Ballot:
	Line Item 2 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes

Line Item 5 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* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Returned Votes		Distribution		Return Rate	
75	ŀ	125	=	60.0%	≥60%
47					
0		Total	Vote	rs with Rejects	0
52					
	75 47 0	75 ÷ 47 0	75 ÷ 125 47 0 Total	75 ÷ 125 = 47 0 Total Vote	75 ÷ 125 = 60.0% 47 0 Total Voters with Rejects

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

III. Rejects None

IV. Other Technical Issues None

V. Comments
V- (i) Voters' Comments
None

V-(ii) Comments Created by Handling Negative None

VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.6.2.1.2)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.6.2.1.3)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	52	1	52	=	100.0%	≥90%

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

X	Globally Approved (No Ratification Ballot needed): Line Item 2 meets the Letter Ballot approval conditions for the global technical committee.
	Need a Ratification Ballot: Line Item 2 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

Line Item 6 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* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Returned Votes		Distribution		Return Rate	
75] ÷	125	=	60.0%	≥60%
47					
0		Total	Vote	rs with Rejects	0
51					
	75 47 0	75 ÷ 47 0	75 ÷ 125 47 0 Total	75 ÷ 125 = 47 0 Total Vote	75 ÷ 125 = 60.0% 47 0 Total Voters with Rejects

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

III. Rejects None

IV. Other Technical Issues None

V. Comments
V- (i) Voters' Comments
None

V-(ii) Comments Created by Handling Negative None

VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.6.2.1.2)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.6.2.1.3)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	51	1	51	=	100.0%	≥90%

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

X	Globally Approved (No Ratification Ballot needed): Line Item 2 meets the Letter Ballot approval conditions for the global technical committee.
	Need a Ratification Ballot: Line Item 2 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

Line Item 7 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* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Returned Votes		Distribution		Return Rate	
75] ÷	125	=	60.0%	≥60%
47					
0		Total	Vote	rs with Rejects	0
53					
	75 47 0	75 ÷ 47 0	75 ÷ 125 47 0 Total	75 ÷ 125 = 47 0 Total Vote	75 ÷ 125 = 60.0% 47 0 Total Voters with Rejects

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

III. Rejects None

IV. Other Technical Issues None

V. Comments
V- (i) Voters' Comments
None

V-(ii) Comments Created by Handling Negative None

VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.6.2.1.2)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.6.2.1.3)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	53	/	53	=	100.0%	≥90%

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

2	X	Globally Approved (No Ratification Ballot needed): Line Item 2 meets the Letter Ballot approval conditions for the global technical committee.
		Need a Ratification Ballot:
		Line Item 2 meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

Line Item 8 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* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Returned Votes		Distribution		Return Rate	
75	÷	125	=	60.0%	≥60%
47					
0		Total	Vote	rs with Rejects	0
53					
	0	0	47 0 Total	0 Total Vote	0 Total Voters with Rejects

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

III. Rejects None

IV. Other Technical Issues None

V. Comments
V- (i) Voters' Comments
None

V-(ii) Comments Created by Handling Negative None

VII. - (i). Approval Rate

APPROVAL CONDITION 1: All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations* ¶ 9.6.2.1.2)

APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (*Regulations* ¶ 9.6.2.1.3)

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

		Accepts		(Accepts + Valid Rejects)			
Approval Rate	=	53	1	53	=	100.0%	≥90%

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

X	Globally Approved (No Ratification Ballot needed): Line Item 2 meets the Letter Ballot approval conditions for the global technical committee.
	Need a Ratification Ballot: Line Item 2 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.

	X	T is	his is not a still technica	not a Safety Document , when all safety-related information is removed, the Document chnically sound and complete. (<i>Regulations</i> ¶ 8.7.1)										
Motion				ty Document , when all safety-related information is removed, the Document is not and complete. (<i>Regulations</i> ¶ 8.7.2)										
				ecklist (<i>Regulations</i> ¶ 15.3) is complete and has been included with the Document the balloting process. (<i>Regulations</i> ¶ 15.1.2)										
	Moti	ion	by/2 nd by	Hiroyuki Ao (FUJI) / Fumiyasu Ohbuchi (SIEMENS)										
	D	isc	ussion	one										
	Vote 9 Y-0 N; Motion passed													

IX. Intellectual Property (IP) Check

Note: This Letter Ballot may cover all or part of a Standard or Safety Guideline. Regardless of the coverage, this IP check <u>applies to the entire Standard or Safety Guideline</u> including all the approved Line Items*. See *Regulations* § 16 for further information.

X	The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (see <i>Regulations</i> ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see <i>Regulations</i> ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, <i>Regulations</i> § 8.8)												
	X	The question is NOT answered in affirmative (No potentially material patented technology or use/reproduction of copyrighted items/trademarks is known.)	GO TO SECTION X.										
		The question is answered in affirmative	Is any of the known IPs a patented		Yes, at least one of them is a patented technology	GO TO IX (a) "Patented Technology" subsection							
			technology?		No	GO TO IX (b) "Copyright items" subsection							

IX(a) Patented Technologies subsection

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

Fill	(I) Known Patented Technology that might be relevant to	Fill	(m) Number of patented technologies first became known to the TC Chapter on or after the day of the issuance of this Letter Ballot	performed at the next
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the Standard/Safety Guideline	# Fill	(n) Number of patented technologies first became known to the TC Chapter before the day of the issuance of this Letter Ballot	GO TO IX (a2)
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IX(a2) Assessment of disclosed patented technologies

Disclosed patented techno (Brief description, e.g., pate	Date of Assessment (If different from the date of Letter Ballot adjudication) MM/DD/YYYY							
Is disclosed patented				Is the use of this PMPT technically		YES PROCEED to assess NEXT one, or if this is the last one GO TO IX(a3)		
technology #1 found to be "might be material" to the Standard/Safety Guideline?			justified'	-		NO	The Document is failed and returned to the TF	
		NO	No furth	er action is nee	ded f	or patente	d technology #1	

This table is needed for each disclosed patented technology.

IX(a3) LOA status check of PMPT of which inclusion assessed to be justified

LOA Status of PMPT #1											
		YES	PROCEED to check NEXT one, or if this is the last one, GO TO IX(b)								
Has an LOA for this patented technology		NO	ЭM		Ask ISC for spo	ecial permission to publish.					
been received from every owner?			MOTION		Quit activity.	The Document is failed and returned to the TF					
					Wait for LOA	PROCEED to check NEXT one, or if this is the last one, GO TO IX(b1)					
			Mot	tion	by/ 2 nd by	Name (Company)/Name (Company)					
			Discussion			XXXX					
			Vote			XX Y-XX N; Motion passed (or failed)					

This table is needed for each PMPT of which inclusion assessed to be justified.

IX(b1) Total numbers of copyrighted items to be dealt with

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# E:!!	(o) Known copyrighted items that are used or reproduced to the	o > 0 There is at least one known copy righted items that might be relevant to the Standard/Safety Guideline	GO TO IX (b2)
number	Standard/Safety Guideline	o = 0 There is no disclosed copyrighted item	GO TO IX (c)

IX(b2) Assessment of disclosed copyrighted items

Disclosed copyrighted item #1 (Brief description of its use in the Document):										
Is disclosed copyrighted		YES	Is the use/reproduction of		YES	PROCEED to assess NEXT one, or if this is the last one, GO TO IX(b3)				
item #1 used or reproduced in the Standard/Safety Guideline?			this copyrighted item technically justified?		NO	The Document is failed and returned to the TF				
		NO	No further action is nee	ction is needed for copyrighted item #1						

This table is needed for each disclosed copyrighted item.

IX(b3) Copyright release status check of copyrighted item of which inclusion assessed to be justified

tined										
Copyright release Status of copyrighted item #1										
		YES		PROCEED to assess NEXT one, or if this is the last one, GO TO IX(c)						
Has the copyright		NO	M		Ask ISC for special p	ermission to publish.				
release been received from its owner?.			MOTION		Quit activity.	The Document is failed and returned to the TF				
					Wait for copyright release letter	PROCEED to check NEXT one, or if this is the last one, GO TO IX(c)				
			Mo	tion	by/ 2 nd by	Name (Company)/Name (Company)				
			Dis	cuss	sion	XXXX				
				е		XX Y-XX N; Motion passed (or failed)				

This table is needed for each copyrighted item of which use/reproduction assessed to be justified.

IX(c) Assessment of disclosed (identified) trademark

		In account in atoms of		YES	GO TO IX(d)	
Is there any trademark in the Standard/Safety Guideline?	YES	Is every instance of trademark use technically justified?		NO	The Document is failed and returned to the TF	
	NO	GO TO IX(d)				

IX(d) IP check completion condition check

The co-chair checks if any Patented Technologies first become known to the TC Chapter on or after the day of the issuance of this Letter Ballot? i.e., m>0 in IX(a1)		Sections IX(a2) and IX(a3) shall be completed and recorded for such patented technologies at next scheduled meeting of the TC Chapter. Until then, the TC Chapter shall NOT go to X (making motion to pass/fail this Document) (see Regulations ¶ 16.4.1.2) Until then this Letter Ballot Review is on hold.
	NO	GO TO X

X. Action for This Document

a	X	Line the IS	e item(s) 1, 2, 3, 4, 5, 6, 7 and 8 passed TC Chapter review as balloted and will be forwarded to SC A&R SC for procedural review.				
M (Ch	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.						
the ISC A&R SC for procedural review. Line item(s) [X], [X] and [X] passed TC Chapter review with editorial changes and will be fo to the ISC A&R SC for procedural review. Line item(s) [X], [X] and [X] passed TC Chapter review with technical changes and with or editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Rat Ballot will be issued to verify the technical changes. Line item(s) [X], [X] and [X] failed TC Chapter review and will be returned to the TF for review and will be returned to the TF							
S)		Line item(s) [X], [X] and [X] failed TC Chapter review and will be returned to the TF for rework					
	Line item(s) [X], [X] and [X] failed TC Chapter review and work will be discontinued.						
Motion by/ 2nd by Hiroyuki Ao (FUJI) / Yasuhiro Kaneko (Yamaha Motor)		Hiroyuki Ao (FUJI) / Yasuhiro Kaneko (Yamaha Motor)					
Discussion None		1	None				
Vote			10 Y-0 N				
Final Action		_	X Motion passed				
		n	Motion failed				

Note: If the use of PMPT or copyrighted item is justified by the TC Chapter, LOA or release form must be received before publication can proceed.