

Editor's Report 60802 Draft 3.4

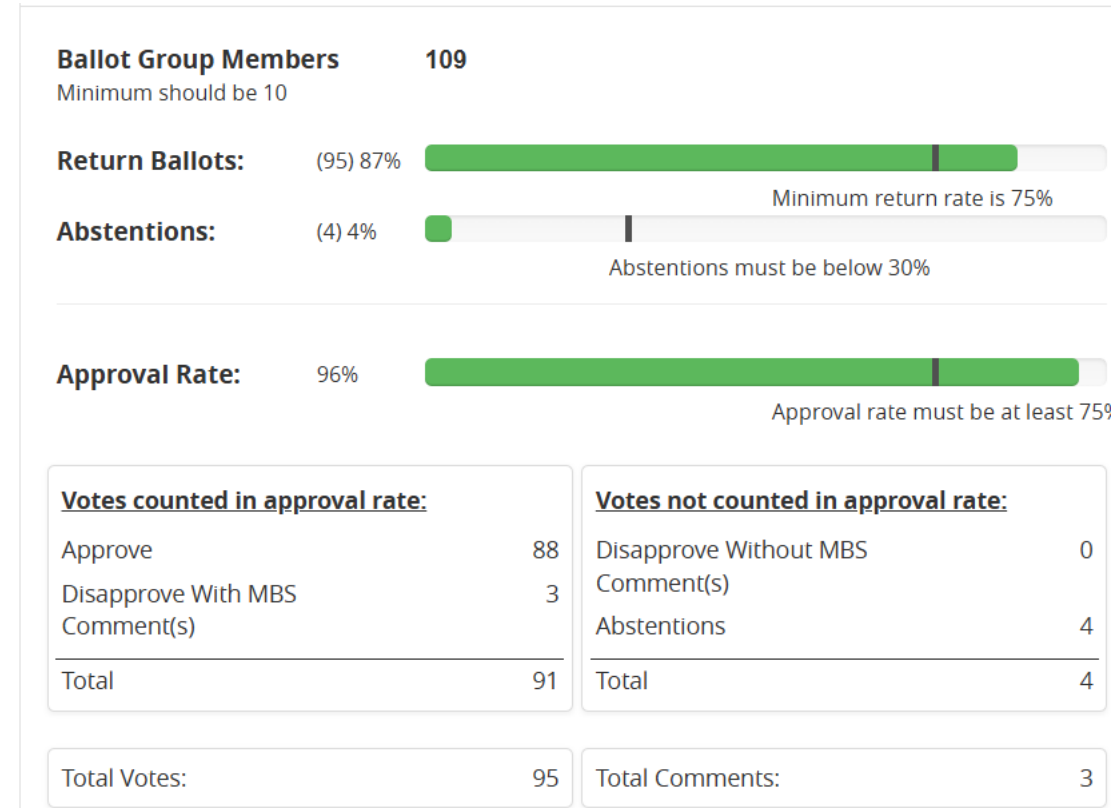
**IEEE 802.1
June 2025**



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Overview

- The fourth recirculation of SA Ballot passed with 96% approval and an 87% response rate.
- There are 3 remaining disapprove votes.
 - One provided comments
 - The other 2 have provided MBS comments on prior ballots
 - All three voters have been contacted in an attempt to address their concerns
- 3 Total Comments.
 - General – 0
 - Editorial – 0
 - Technical – 3



Ballot Statistics

CATEGORY	All Respondents	
	TOTAL	%
Yes	88	96.70%
No	3	3.30%
Voting Yes or No	91	100.00%
Abstain	4	4.21%
Respondents	95	87.16%
Ballot Pool	109	
Non-voting		
No. of commenters	1	1.05%
No. of comments	3	
TR	3	100.00%
T	0	0.00%
ER	0	0.00%
E	0	0.00%
G & GR	0	0.00%

Responses

Name	Current Vote	Comments		Name	Current Vote	Comments
Tomoko Adachi	Approve	N		Christophe Mangin	Approve	N
Iwan Adhicandra	None	N		Scott Mansfield	Approve	N
Boon Chong Ang	Approve	N		David McCall	Approve	N
BUTCH ANTON	Approve	N		Jonathon Mclendon	Approve	N
William Armstrong	Approve	N		Sven Meier	Disapprove	N
Stefan Aust	Approve	N		Richard Mellitz	Approve	N
Harry Bims	Approve	N		Martin Mittelberger	Approve	N
Christian Boiger	Approve	N		Michael Montemurro	Approve	N
Rich Boyer	Approve	N		Rajesh Murthy	Approve	N
Travis Breitreutz	Approve	N		Yukimasa Nagai	Approve	N
Vern Brethour	Approve	N		Paul Nikolich	Approve	N
Richard Bugg	Approve	N		Glenn Parsons	Approve	N
Radhakrishna Canchi	Approve	N		Bansi Patel	Approve	N
Paul Cardinal	Approve	N		Dev Paul	None	N
Pin Chang	Approve	N		Arumugam Paventhan	Approve	N
zhiman chen	Approve	N		Richie Pearn	Approve	N
Baw Chng	None	N		Cam Posani	Approve	N
Rodney Cummings	Approve	N		Dieter Proell	Approve	N
Michael Dood	Approve	N		Adee Ran	Approve	N
Anthony Downs	None	N		Alon Regev	Approve	N
MARC EMMELMANN	Approve	N		Denis Reilly	Approve	N
Janos Farkas	Approve	N		Maximilian Riegel	Approve	N
Matthias Fritsche	Abstain	N		Silvana Rodrigues	Approve	N
Madhukar Gaganam	None	N		Benjamin Rolfe	Abstain	N
Geoffrey Garner	Approve	N		Jessy Rouyer	Approve	N
Sachin Goel	None	N		Atsushi Sato	Approve	N
Paulo Goncalves	Approve	N		Bartien Sayogo	Approve	N
Yanjie Gong	Approve	N		Maik Seewald	Approve	N
Stephen Haddock	Approve	N		Jhony Sembiring	Approve	N
Marek Hajduczenia	Approve	N		Veselin Skendzic	Approve	N
Mark Hantel	Approve	N		Johannes Specht	None	N
Marco Hernandez	Approve	N		Dorothy Stanley	Approve	N
Werner Hoelzl	Approve	N		Kevin Stanton	None	N
Oliver Holland	Approve	N		Guenter Steindl	None	N
C Huntley	Disapprove	N		Walter Struppler	Approve	N
Abdul Jabbar	Abstain	N		Gary Stuebing	Approve	N
Raj Jain	Approve	N		Bo Sun	Disapprove	Y
SangKwon Jeong	None	N		David Tepen	Approve	N
Pranav Jha	Approve	N		Richard Tse	Approve	N
Thomas Joergensen	Approve	N		Max Turner	Approve	N
Lokesh Kabra	Approve	N		Ganesh Venkatesan	Approve	N
Piotr Karocki	Approve	N		John Vergis	Approve	N
Stephan Kehrer	Approve	N		James Weaver	None	N
Stuart Kerry	Approve	N		Karl Weber	None	N
Marcel Kiessling	Approve	N		Scott Willy	Approve	N
Yongbum Kim	Approve	N		Ludwig Winkel	Approve	N
Takashi Kuramochi	Approve	N		Andreas Wolf	None	N
Gavin Lai	Approve	N		Jordon Woods	Approve	N
Hyeong Ho Lee	Approve	N		Lei Yang	Approve	N
Xiao Liang	None	N		Yi Yuan	None	N
Ru Lin	Approve	N		Yu Yuan	Approve	N
Greg Luri	Approve	N		Oren Yuen	Approve	N
Jingfei Lv	Approve	N		Janusz Zalewski	Approve	N
Michael Lynch	None	N		Sven Zeisberg	Approve	N
Yongsen Ma	Abstain	N				

Comments from Prior Ballots

- From Initial SA Ballot (d3.0)
- Editor's Position (as explained to the commentor):
 - IEC/IEEE 60802 is a profile.
 - The profile cannot deviate from the base standard.
 - The base standard (IEEE Std 802.1AS) must be changed.
 - There is nothing the Joint Project can do to address these concerns.

Cl 0	SC 0	P17	L	# I-101
Huntley, C		SEL		
Comment Type	ER	Comment Status	R	
The use of "Grandmaster" when there is no "Master" is not acceptable. Note that there is no mandate from IEEE to not use "Master" There is an overwhelming anger in the IEEE WG to this ridiculous change, causing much confusion to those involved in the many challenges of implementing and using 1588.				
SuggestedRemedy				
Please restore the IEEE 1588 use of the term "Master" and "Slave"				
Response	Response Status		W	
REJECT. IEEE Std 802.1AS have been amended to use inclusive terminology. IEEE Std 1588 has been amended to allow usage of alternative terminology.				

Comments from Prior Ballots

- From Initial SA Ballot (d3.0)
- Editor's Position (as explained to the commentor):
 - The intent of our profile is to provide a common set of TSN mechanisms which can be used to achieve determinism.
 - This allows the various industrial consortia to make use of various TSN features, depending upon their requirements.
 - The inclusion of a common, interoperable approach to management (i.e., a common control plane) allows device which use different mechanisms (e.g., scheduled traffic vs. standard QoS) to “coexist” in the same network and still have their traffic reservations respected.

Cl 4	SC 4.5	P30	L 873	# I-120
Huntley, C		SEL		
Comment Type	TR	Comment Status	R	
"scheduled time slots" are arguably the most important technology for achieving a deterministic latency for critical-latency traffic, but the algorithm to achieve this is missing.				
SuggestedRemedy				
Add an annex to cover all the issues to support "scheduled time slots", including algorithms and proven use cases.				
Response		Response Status	W	
REJECT. No specific remedy provided. It is not the role of this document to specify specific implementations. Mechanisms for achieving "scheduled time slots" are clearly specified in Clause 5.				

Comments from Prior Ballots

- From Initial SA Ballot (d3.0)
- Editor's Position (as explained to the commentator):
 - While the response is correct, the term "transmission selection timing point" no longer appears in the document. That requirement was removed in a subsequent ballot based upon technical considerations, so no definition is needed.

CI 5	SC 5.7.2	P49	L 1571	# I-121
Huntley, C		SEL		
Comment Type	ER	Comment Status	R	
"transmission selection timing point" is not defined				
SuggestedRemedy				
Add definition for "transmission selection timing point"				
Response		Response Status	W	
REJECT. The "transmission selection timing point" is shown in 802.1Q-2022, figure 12-6 which is referenced.				

Comments from Prior Ballots

- From Third Recirculation Ballot (d3.3)
- Editor's Position (as explained to the commentor):
 - The proposed change assumes that the committee understands what you consider to be essential and what is nice to have.
 - Committee members have intimate knowledge of industrial automation and industrial Ethernet communications. The draft comprises a consensus amongst the committee members as to what is needed for TSN in industrial automation.
 - After discussion, it seemed the commenters primary concern was with the time synchronization requirements.
 - The time synchronization requirements are the result of many man-months of exhaustive simulation with the involvement of Industry experts.

CI 0	SC 0	P	L	# R3-1
Meier, Sven		NetTimeLogic GmbH		
Comment Type	GR	Comment Status R		
<p>In my point of view this standard defines unrealistic requirements and in general an overkill way beyond what is required for Industrial communication. The goal was to have a common set of TSN features that must be fulfilled for Industrial communication but as the standard is right now there is basically no existing TSN infrastructure that can satisfy the full standard as such. This will either lead to a scenario where vendors will kind of create a subset of it which is not the idea of Profile, making profiles of profiles or even worse create again incompatibility since vendors are simply not able to fulfill a lot of the requirements defined.</p> <p>The strength of this should have been in simplicity taking only the really essential parts of TSN which are needed for Industrial communication rather than making the blown up thing it is right now.</p> <p><i>SuggestedRemedy</i></p> <p>Strip the profile down to the really essential parts and not having all those nice to have things in there. Looking at the existing Realtime Ethernet Solutions which shall basically be replaced by TSN it should be clear that this profile is an overkill and must be stripped down to the essentials.</p> <p><i>Response</i></p> <p><i>Response Status W</i></p> <p>REJECT. As the comment does not provide a proposed change, from a process perspective it is rejected.</p>				

Comments from Prior Ballots

- From Initial SA Ballot (d3.0)
- Editor's Position (as explained to the commentor):
 - The time synchronization requirements are the result of many man-months of exhaustive simulation with the involvement of Industry experts.

CI	0	SC	0	P	L	#	I-213
Meier, Sven		NetTimeLogic GmbH					
Comment Type		GR	Comment Status R				
Way to narrowed down standard, chance that any actual implementation will be 100% compliant with all requirements are low. Especially the time synchronization requirements, a lot of them can not be satisfied by current HW (accuracy and conceptual wise). The goal should have been to find the real base requirements which need to be satisfied and these requirements are way off from what is typically needed for industrial network. In my point of view this standard should have been a defacto alternative to other realtime-industrial ethernet networks like Profinet, Powerlink, Ethercat ... and not a wish list which can not be satisfied without throwing all existing (which is still not a lot) HW away and start from scratch. As a profile it shall be a subset and not a superset.							
SuggestedRemedy							
Response		Response Status W					
REJECT. As the comment does not provide a proposed change, from a process perspective it is rejected.							

Thank you