



IEEE Vehicular Technology Society
Communications Based Train Control and Signals (VT/CBTC&SIG) Standards Committee
Date: May 17, 2022
Time: 8:00 AM to 9:00 AM EDT
Location: MS Teams

Minutes of the Meeting
APPROVED

1. Call to Order by Chair (Yousef Kimiagar)

- a) Introductions / Declarations of affiliation: the Chair called the attendees for introduction and affiliation.
- b) The Chair announced

	Total	Present in the Meeting
Members	41	17 <i>Note: throughout the meeting, the attendees increased to 25</i>
Voting Members	25	16 <i>Note: throughout the meeting, the voting members increased to 18</i>

- c) The Chair called the meeting to order and described the process for voting in the virtual environment.

2. Approval of Agenda

- a) The Chair asked for any edits, adjustments to the to the agenda. No edits or comments provided. Motion was put forward by Ivan Grigorchenkov proposed a motion to approve the agenda, it was seconded by Mehmet Turan Soylemez. **Motion carried.**

3. Approval of the Minutes of Meeting on 15-Feb-2022

- a) The Chair asked for any comments or correction to the minutes of the meeting on February 15, 2022. No comments or edits were provided
- b) The Chair asked for a motion to approve the minutes of the meeting. Ivan Grigorchenkov proposed a motion to approve the agenda, it was seconded by Mehmet Turan Soylemez. **Motion**



carried.

4. Proposal for New Work

- a) Calling on volunteers to update the Committee website.
 - i. Ivan Grigorchenkov volunteered to assist with updating the Committee website
- b) Proposal for transfer of “IEEE 2839-2021 Recommended Practice for Vital computer for rail safety-related application” to CBTC&SIG SC
 - i. Motion was proposed by Wilson Milian to transfer “IEEE 2839-2021 Recommended Practice for Vital computer for rail safety-related application” to the VT/CBTC&SIG Standards Committee. It was seconded by David Thurston. **Motion carried.**
- c) Proposal to accept sponsorship of “IEEE 1570-2002 Standard for Interface Between the Rail Subsystem and the Highway Subsystem at a Highway Rail Intersection” to CBTC&SIG SC.
 - i. Jeff Utterback has proposed and volunteered to undertake this assignment to form a working group to review and update this standard. This standard is still being used and referenced for railway crossings by FRA and IEEE 1474.
 - ii. Motion was proposed by Lisaidyn Perez to form a new working group to review and update IEEE Standard 1570; it was seconded by Wilson Milian. **Motion carried.**
- d) Proposal to accept sponsorship of “IEEE 1483-2000 Standard for Verification of Vital Functions in Processor-Based Systems Used in Rail Transit Control” to CBTC&SIG SC.
 - i. Jeff Utterback has proposed and volunteered to undertake this assignment to form a working group to review and update this standard. This standard was reaffirmed in 2007 and is still being used and referenced for railway crossings by FRA and IEEE 1474.
 - ii. Motion was proposed by Mehmet Turan Soylemez to form a new working group to review and update IEEE Standard 1483; it was seconded by Wilson Milian. **Motion carried.**
 - iii. Pat Roder clarified that both Standards 1570 and 1483 can be reviewed under one working group. The Committee Chair appointed Jeff Utterback as the Chair of the new working group. This closed the following action carried from the last meeting:
 1. **Action:** Jeff Utterback reported that he is working on finding more details about IEEE 1483 Standards and looking for volunteers to form a working group to review and ratify the standard.



5. Working Groups Update

- a) Updates from WG to reinstate/update IEEE Standard 1698-2009 (David Thurston)
 - i. Call for Participation. David Thurston has emailed
 - ii. Patricia Roder will discuss with David Thurston to find out which groups should receive the “Call for Participation”
- b) Update on the status of WG#2 IEEE Standards 1474 Parts 1, 2, 3, 4 (Yousef Kimiagar)
 - i. The review of the standard is almost completed. The final points being reviewed are the referenced standards such as level crossing and some definitions.
 - ii. Also modeling of part 3 for verification of cross references is another ongoing activity to ensure the functional design references are accurate.
 - iii. PARs for 1474 part 2 and 3 will expire by the end of 2022.
 1. **Action:** add this to the agenda for next meeting to rev review and approve the extension of the PARs and propose to NesCom for approval.
- c) Update from Study Group - CBTC Cybersecurity (Arash Aziminejad).
 - i. Arash was not in attendance. Patricia Roder has already provided the required documentation for Arash Aziminejad to form the new Study Group.
- d) Update from the Interoperability Study Group (Ivan Grigorchenkov)
 - i. Ivan provided an update of the progress made in the study group. The group has 89 registered members that is growing to 110 from 21 country. Very balanced and diverse group from the industry. The final report and draft PAR are being developed and will be finalized in the study group by the end of June.
 - ii. The draft PAR will be reviewed by the VTS CBTC/SIG Committee to make a decision if the Interoperability will have to be a new Standard with a new number or it should remain under IEEE 1474 as Part 5. The next step would be the approval of the PAR by IEEE NesCom

6. Date and place of next meeting

- a) Next meeting was agreed to be virtual on August 9, 2022 at 8:00 am EDT.
- b) Motion moved by Ivan Grigorchenkov to approve the date for the next meeting and was



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seconded by Celestin Nkundineza. **Motion carried.**

7. Other Business

- a) Ivan suggested to resume the study group for the emerging technologies around August/September.
- b) It was noted that “IEEE 1475 for the Functioning of Interfaces Among Propulsion, Friction Brake, and Train-Borne Master Control on Rail Rapid Transit Vehicles” is relevant to 1474 and can be updated by this committee. Patricia Roder noted that 1475 has been published in 2012 and will expire in 2022.
 - i. **Action:** Add to the agenda of next meeting to review and decide the transfer of IEEE 1475 to VTS CBTC/SIG Committee.

8. Adjourn

- a) Motion moved by Ivan Grigorchenkov to adjourn the meeting and was seconded Mehmet Turan Soylemez. **Motion carried.** The meeting adjourned at 9:01am EST

Minutes prepared by Chair CBTC/Signals Standards Committee Yousef.Kimiagar.ca@ieee.org



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Working Group Attendees

Last Name	First Name	Company
Andersen	Kurt	Independent Consultant
Bantin	Colin	Independent Consultant
Basyoni	Yarah	University Cayro
Edraki	Ali	Wabtec
Grigorchenkov	Ivan	SNC-Lavalin ATKINS
Kimiagar	Yousef	IEEE/Hatch
Milian	Wilson	NYCT
Mok	Hiu Chun	Independent Consultant
Nkundineza	Celestin	Independent Consultant
Perez	Lisaidyn	CRSC
RassÅµlkin	Anton	Tallinn University of Technology
Roder	Patricia	IEEE
Shafeie	Mohsen	Wabtec
Soylemez	Mehmet Turan	
Testa	Daniel	Hitachi Rail
Thornburg	Michael	Turner Engineering
Thurston	David	CP
Utterback	Jeff	Battelle
Ward	Lamont	Amtrak