The Rail Transit Vehicle Interface Standards Committee is always looking to receive help from interested industry volunteers. Industry standards cannot be developed without you. If you are interested or would like more information, go to www.RTVISC.org or contact Jim Dietz at jdietz@ieee.org or (215) 641-8876. See the other side of this page for a list of standards.

Scope:

The scope of committee is to develop standards associated with rail passenger vehicles, trains and systems, including (but not limited to) automatic train control, communications and electrical power distribution systems, which interface with these vehicles or trains.

Purpose:

The purpose of this committee is to serve as the Sponsor and balloting group per Section 4.2.2 of the IEEE Standards Board Bylaws, for all rail transit vehicle interface standards developed by the IEEE.

The development of Standards for transit applications is crucial for agencies to procure and utilize conventional and new technology effectively, and because they provide guidance in vehicle, facility and system design and system operations. Standards benefit both transit operators and the transit supply industry. These benefits include:

- Agencies save money in procurement costs by increasing competition and avoiding proprietary technologies.
- Systems and equipment can be designed for interoperability and interchangeability, increasing market size and reducing customization.
- The supply industry gains confidence that they are building to commonly used and understood specifications, thereby reducing risk and unknowns.
- Standards represent a consensus of transit operators, suppliers, consultants and others who determine best design parameters and practices.

Standards benefit transit agencies of all sizes in all geographic locations. For larger agencies, there are larger cost savings as a result of larger fleet size. For smaller agencies with limited in-house resources, consensus standards also provide technical guidance and foster the viability of small rolling stock orders. Whether considering safety enhancement, initial or operating cost reduction, performance improvement, or other factors, standards work to improve transit performance and therefore the ridership-to-cost ratio.

Over for list of standards
# Rail Transit Standard Development Status

## Published IEEE Standards That Are Being Maintained
- 16: Electrical/Electronic Control
- 1473: Network Communications Protocol
- 1474.1: CBTC Performance Requirements
- 1474.2: CBTC Graphical User Interface
- 1475: Propulsion Braking & Master Control
- 1476: Auxiliary Power Systems
- 1477: Passenger Information
- 1478: Transit Car Environment
- 1482.1: Event Recorder
- 1483: Verification of Vital Functions
- 1536: Battery Physical Interface
- 1558: Software Documentation
- 1568: NiCad Battery Performance
- 1570: Highway Rail Interface Standards

## Railcar / Crossover Standards Under Development
- P-1482: Maintenance & Diagnostics
- P-1544: Rail TCIP
- P-1698: Calculation of Braking Distances

## Signal Standards Under Development
- P-1474.3: CBTC System Design and Functional Allocation

## Overhead Contact System Subcommittee IEEE Standards Under Development
- P-1626: OCS Insulation
- P-1627: OCS Grounding Practices
- P-1628: RP for Overhead Maintenance
- P-1629: Overhead Current Collectors
- P-1630: OCS Structures

## Traction Substation Subcommittee IEEE Standards Under Development
- P-1653.1: Traction Power Rectifier Transformers
- P-1653.2: Uncontrolled Traction Power Rectifiers
- P-1653.4: Traction Power System Field Testing and Acceptance Criteria

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