



International Standards Development

CEN TC278 WG3

Within the Public Transport standards group in CEN there are 5 areas of interest to PTIC:

- SG1 (Data communication on vehicle)
- SG4 (Transmodel – Public transport Datamodel)
- SG7 (SIRI - Real time passenger information protocol in Public transport)
- SG9 (NeTEX - Network, Time table and Fare exchange)
- SG10 (OpRa – Operating raw data and statistic exchange)

SG1 (Data communication on vehicle)

Following the work on EBSF2, existing work from VDV On Board Data Bus Transmission standards and ITxPT, four CEN technical standards have been finalised, one CEN/TS13149 part 7 Service Framework has been published.

The other three parts of TS13149 are waiting for formal publication:

- Part 9: Time Service
- Part 10: Location Service
- Part 11: Vehicle Interface (FMS)

New work items potentially are data transfer within and from vehicle using MQTT and standardisation with rail.

SG4 (Transmodel – Public transport Datamodel)

The update to Transmodel, the base public transport data model, that has been taking place for a few years has been completed and form updated parts to CEN/EN 12896

The first three parts have been available since 2016:

- Part 1: Common Concepts: generic & reusable
- Part 2: Network topology: routes, lines, stops, etc;
- Part 3: Timing information & vehicle scheduling: blocks, vehicle services, vehicle journeys, run times, passing times, etc

These parts have recently been completed and published 2019

- Part 4: Operations Monitoring and Control:



vehicle follow-up, control actions, facility monitoring, etc;

Part 5: Fare Management:

tariffs, fare products, sales, validation, control of access rights

Part 6: Passenger Information :

General passenger information and specific trip plans

Part 7: Driver Management :

duties, rosters, driver schedules

Part 8: Management Information :

raw data to build service indicators

Part 9: full data dictionary, model evolution

More information on transmodel is available at www.transmodel-cen.eu

SG7 (SIRI - Real time passenger information protocol in Public transport)

Work continues on updating SIRI which is hoped to be completed by the Autumn.

Key areas for change include:

- Vehicle formations (train and tram carriages for example)
- Improved relationships between journeys
- Increased filtering options to help manage data volumes
- Improvements to how Platform (Quay) are represented
- Harmonisation of vehicle modes with NeTEx and VDV
- Harmonisation with TPEG and NeTEx for disruptions
- Improvements to representation of Operator including sub-contracting
- Increase elements that support multiple language handling
- Corrections of inconsistencies and typos across and between elements.

A European profile for SIRI is being planned to improve cross border cooperation. This will be delivered by the Data4PT project (see later).

SG9 (NeTEx - Network, Time table and Fare exchange)

Parts 1 to 3 of the CEN TS16614 standard have been reviewed and updated.



- Part 1: Public Transport Network topology;
- Part 2: Scheduled Timetables;
- Part 3: Fare information.

The XSD has been updated and published <https://github.com/NeTEx-CEN/NeTEx>

Work is about to start on translating the new modes from Transmodel into NeTEx.

The European profile for passenger information (EPIP) has been published, this should help the future develop in the UK of a NeTEx profile to replace TransXChange in a few years time.

SG10 (OpRa – Operating raw data and statistic exchange)

This was introduced at the last PTIC meeting.

A technical report CEN/TR 17370 was published last year that outlines the scope.

A proposal for a project to develop the scope into the XML and documentation has been submitted. It is hoped that the project can start late 2020.

How the UK can be formally involved in this work remains to be seen as there is no funding available for UK involvement. There is interest from several UK companies.

Data4PT

This is UITP project supported with EU funding to develop material to help the CEN standards of Transmodel, NeTEx and SIRI be introduced and used through documentation, training and project support.

The UK has an observer status through DfT and Traveline as well as having some UK individuals listed as subject experts.

The workplan covers 4 key areas:

WP2 Development of compliance tools and processes

WP3 support for projects implementing standards

WP4 support for operational use of standards

WP5 Development and dissemination of support and training material

