



INFORMATION TECHNOLOGY
for PUBLIC TRANSPORT

2021 Half-year review

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A strong opening of the year

The year opened strong for the ITxPT collaborative community, releasing version 2.1.1 specifications in January. In the spring, we released an update of the General Design Rules, Technical Requirements for MQTT, and a Preview Release of FMStoIP version 2.2.0. The FMStoIP release was the first-ever Preview Release, a new type of document that ITxPT started to use in 2021. The ITxPT Roadmap is also constantly updated, and in March, we released the Activity Report for 2020.

Members Meetings



As reported before, we expanded from two to four ITxPT Members Meetings per year. We held the first two 2021 meetings in March and June, with the upcoming two on September 16th and December 9th. Save the dates!

June 24th Members Meeting

The well-attended meeting concluded a productive period for ITxPT and presented the latest updates from committees, working groups, and external projects like Data4PT, Rivsilon II, Nordic Way, etc.

At the meeting, Simon Reed, head of technology and data on Traffic for London, presented the iBus2 tender.

[Read more](#)

March 25th Members Meeting



At the Members Meeting, four guests – LTA from Singapore, STA from Italy, TRONTEQ, and Transamo – gave their views on the current situation, the future, and ITxPT. The meeting also got a walkthrough of the committee's progress and the latest news about the ITxPT labs and labeling.

[Read more](#)

Releases

The ITxPT specifications are the primary outcome of the Collaborative Community work, and with an expanding scope comes new specifications. Every new version also updates existing specifications with new content and improvements in accessibility and enhanced implementation possibilities.

2.1.1 specification release - several patch improvements



At the beginning of the year, the ITxPT Collaborative Community released a new technical specification version. The 2.1.1 update consisted of many patch improvements that together enhanced the readability and usability of the specifications. It also resulted in improved interoperability by minimizing the freedom of interpretation.

[READ MORE](#)

Complementary 2.1.1 material released

At the end of the spring, ITxPT released complementary material to version 2.1.1.

The following items were released:

- XML and JSON schemas
- Known Issues document
- Client Development Guide

ITxPT GitHub

The schemas, the Known Issues, and the Client Development Guidelines are all found on the [ITxPT GitHub](#) in the repository for each specification section:

- S01 - Installation Requirements
- S02 - Onboard Architecture
- S03 - Backoffice Architecture

You find the 2.1.1 material in the 2.1.1 branch.

[Read more](#)

ITxPT roadmap continuously updated



The Roadmap shows what is in the pipeline for coming ITxPT releases. The Requirements Committee keeps the Roadmap continuously updated with the latest version presented to the members at the June 24th Members Meeting.

The Roadmap in detail

ITxPT Members find a detailed Roadmap in the Documentation Center on <https://itxpt.org>. If you are not a member yet, please read more [here](#) and fill out the membership form at the bottom of the page to become a member.

Requirements Committee



The ITxPT Requirements Committee contributes to the transformation from proprietary silo solutions to an open platform and plug-and-play functionality within mobility. The committee meetings are a crucial foundation for channeling the customer needs into specifications, best practices, and standards.

New Requirements Committee meeting format

To better anticipate future needs, the Requirements Committee has begun restructuring the meetings and introducing an element of knowledge sharing. Since April, this has been ongoing, and it includes inviting guests knowledgeable in a specific topic to share their experiences and present their activities. Also, to evaluate how they can interact with ITxPT towards common goals.

Example of presentations:

- On-demand transport presentation by Ruter and Bestmile
- The Rivsilon project
- The standardization landscape – by Technical Committee Chairman Emmanuel de Verdalle
- Galileo and EGNOS benefits for ITxPT – by the European Commission.

Requirements Committee pre-studies



The pre-studies are a new way of evaluating a topic to find the proper scope and prepare for a new Requirements Committee working group. The first pre-study topic is on-demand transport. It had its kick-off on June 3rd, preceded by a presentation by Ruter and Bestmile at an earlier Requirements Committee meeting.

Other topics that might become pre-studies are:

- Multimodal integrated ticketing
- Power management (pre-study or Working Group)
- Vehicle to IP review (pre-study or Working Group)

If you want to join the Requirements Committee or Technical Committee and, together with the other committee members, impact the future specifications, contact us at info@itxpt.org. We are happy to provide information on becoming a Strategic or Principal member and how to engage in committee work.

Electric Vehicle data Workshop



On May 7th, ITxPT held a workshop on charging infrastructure data for electric vehicles. The well-attended meeting gathered important actors from the industry to discuss specifications and standards regarding electric vehicles and the charging infrastructure. Among the attendees were vehicle manufacturers like BYD, Daimler, Scania, charging infrastructure suppliers, authorities, and operators.

[READ MORE](#)

Technical Committee

[New documents approved by the ITxPT Executive Board](#)

The Technical Committee and the Technical Working Groups have been productive in the first six months of 2021. The Executive Board recently approved an update of the General Design Rules technical requirements, the new MQTT technical requirements, and a Preview Release of the S02P04 FMStoIP 2.2.0.

[Read more](#)

[Preview Releases and Public Drafts](#)

In 2021, the ITxPT Technical Committee has added two new types of releases for documents, the Preview Release and the Public Draft.

Preview Release

A Preview Release is an official ITxPT Specification release that may change before the final version. The purpose of Preview Releases is to be able to release a specification ready for implementation while still having the ability to fix critical problems without causing specification compatibility issues.

Public Draft

A Public Draft is a (version of) a specification or other document that ITxPT wishes to release for broader circulation. Unlike Preview Release, which has several promises about its state and how it will be managed, a public draft has none of that per default.

[Read more](#)

[The Technical Committee mission](#)

On the June 24th Members Meeting, Emmanuel de Verdalle, the Chairman of the Technical Committee, gave a short walkthrough of the committee mission:

- Analyze Requirements Committee outcome
- Open Technical Committee Working Groups to prepare the technical outcome from the Requirements Committee deliverables.
- Align the Technical Committee proposals with the Requirements Committee expectation
- Deliver the Technical specifications

The Technical Working Groups that are currently active are:

- JSON
- Passenger Counting
- Data dictionary
- Electric Vehicle

External Projects



ITxPT is involved in several external projects, vital to pave the way for specification development and bring together mobility stakeholders. The projects ITxPT is currently engaged in are:

- Connecta 3 (Shift2Rail)
- Data4PT
- NAPcore
- Nordic Way 3
- Rivsilon II
- SHOW

Rivsilon II

The Rivsilon project ended in June 2020, and already in the autumn, discussions began about starting a follow-up project. In 2021 the stakeholders concretized the talks into a plan for the new project.

In a project like Rivsilon and Rivsilon II, ITxPT and regional stakeholders collaborate to promote learning, testing, and demo pilots selected by the partners.

Benefits for ITxPT Collaborative Community:

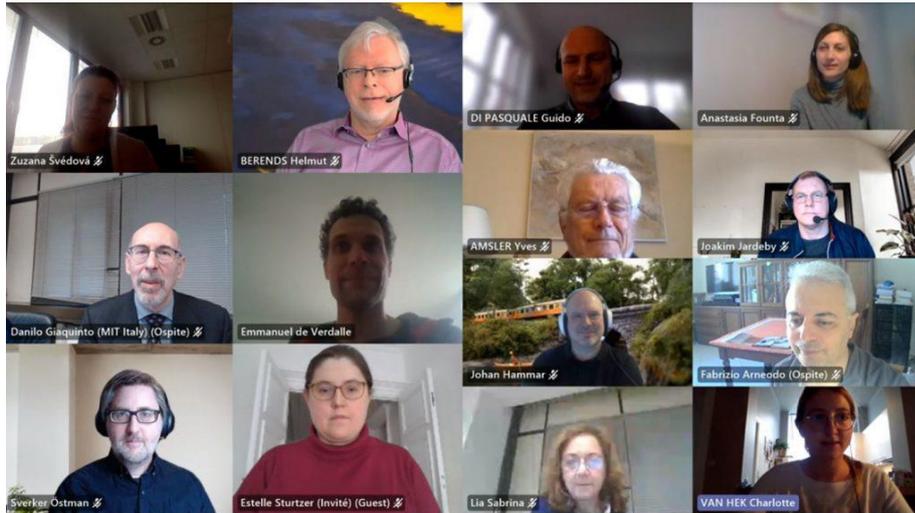
- Drive specification development
- Evolve work methods
- Position ITxPT in new areas
- Confirm ITxPT functionality
- Evolve member collaboration

Benefits for participants:

- Be part of a collaboration arena
- Test and demonstrate own solutions in connection to others
- Deepen local collaborations

We support future projects. If you are interested, please talk to us to learn more about the possibilities to start a local project or to find out more about Rivsilon. You can read the Rivsilon case study and the full project report [here](#).

Data4PT



Data4PT supports the EU Member States in enabling union-wide multimodal travel information services. The long-term goal is a seamless door-to-door travel ecosystem across Europe for all mobility services.

During the spring semester of 2021, Data4PT held its first of two plenary meetings for the consortium. It also delivered its first outputs and started a training program to help stakeholders understand, use and implement public transport standards such as Transmodel, SIRI, NeTex.

Read more about Data4PT [here](#).

Read the 2020 ITxPT Activity Report



ACTIVITY REPORT 2020



On March 29th, we released the ITxPT Activity Report for 2020. [Here](#) you can read or download the report.