Technical Tutorial:
Service Interface for Real-time Information

What is SIRI?

SIRI (Service Interface for Real-time Information) is a **European standard for exchanging real-time public transport data** between systems and open data. It enables the sharing of information on vehicle locations, expected arrival times, service disruptions, and other changes to planned services.

Built on Transmodel, complementary to NeTEx

First published in 2006, SIRI is **based on Transmodel,** the European reference data model for public transport. It complements NeTEx by enabling real-time updates.

Before travel

NeTEx
Network Timetable Exchange

Planned information
Routes, stops, and scheduled timetables

During travel

SIRI

Real-time information
Vehicle positions, delays, and disruptions

Functional scope

Service status
Disruptions and changes

Vehicle monitoring
Live vehicle location and fleet status

Real-time updates
Estimated time of arrival, guaranteed connections, timetable updates

Facilities status
Availability and operational status of facilities and equipment

SIRI Services

Timetable services

Connection services

Stop services

General messaging

Facility monitoring

Vehicle monitoring

Situation exchange

Use cases



Real-time updates at a specific stop



Assets management and monitoring



Real-time journey planning



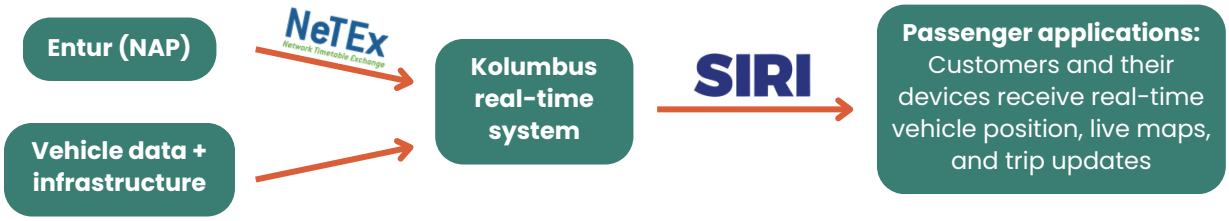
Operational and disruptions management



Live passenger information on displays

Simplifying public transport services

Kolumbus, a Norwegian public transport authority, works with **Entur**, the National Access Point, to provide passengers with **real-time information** and **journey guidance**. Using **SIRI**, vehicle positions and service updates can be shared with digital applications, making public transport easier to navigate.



Benefits

For passengers:

- **Easier, more intuitive journeys**
- **Real-time information and greater confidence**
- **Improved accessibility and personalised guidance**

For PTAs:

- **Interoperable data exchange**
- **Consistent passenger information**
- **Better service monitoring**

Resources

Learn more about SIRI:

- GitHub: Technical artefacts, including XML Schema and examples
- French National Access Point: Open-source tool to explore SIRI feeds
- Transmodel CEN: Comprehensive collection of CEN documents

Discover the POLIS Capacity Lab

Plus, you can learn more about data standards and specifications in urban mobility through **full access to the POLIS Capacity Lab's activities and content**.

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