

CONNECT THE DOTS

MOBLITY SUITE

Software, Apps & API for Transit

A company by:

INFODEV
Electronic Designers International





Insoft Research is an Infodev subsidiary dedicated to creating cutting-edge software interfaces for decision-makers in the transit industry. Our vast knowledge and experience in passenger counting, combined with our technical expertise, results in a software suite that produces meaningful graphs, detailed reports, and summary analytics.

With our devoted team of programmers, engineers, and designers, we create software tailored to your needs. Solve your everyday challenges seamlessly by utilizing Insoft Research's turnkey products that can be easily customized and integrated. InSoft recognizes that clients' specific analysis and planning are integral to today's transit world business practices. That's why we offer an architectural design service that enables you to achieve the highest level of integration and customization.



MOBILITY SUITE>

Software solutions developed specifically for the transit industry

Insoft's new Mobility Suite will convey all the information you need to make operational and strategic decisions at a glance. By combining detailed reports with summary dashboards, we deliver a turnkey product that gives you the answers you need to solve your transit challenges. **From data analysts to top management, we redefine how people view transit data.**

MODULES OVERVIEW

We've designed our Mobility Suite to include a range of modules, each providing unique information. These modules rely on either historical or real-time data. Only our Schedule Validator module is based on transit schedules or bookings.

Mobility Module	Historic Data	Real-Time Data	Other
Insight	✓		
Playback	✓		
Route Status		✓	
RealTime Map		✓	
Passenger Journey	✓		
Schedule Validator			✓
FTP	✓		
API	✓	✓	

APC DATA MEETS TRANSIT BUSINESS INTELLIGENCE

Our APC systems provide two data types, depending on your selected system architecture. With our Classical APC system, you get Historical Data, perfect for analysis and reporting. With our enhanced APC system, you get Real-Time Data that empowers you to improve your passengers' experience.



HISTORICAL DATA



Accurately track ridership over time.



Create accurate annual ridership reporting.



Provide actionable information to decision-makers.



REAL-TIME DATA



Communicate vehicle occupancy and location to passengers.



Track service on-time performance and share vehicle status with users.



Monitor vehicle positions to identify bus bunching.

From Granular to Macro Data



Temporal

- Year
- Season
- Month
- Week
- Day of the week
- Time period



Geographical

- Division
- Route
- Direction
- Trip
- Every stop



Logistic

- Mode
- Service type

CONNECT WITH EXISTING TOOLS

Use Infodev API to access your APC data into existing software and apps.

Infodev EDI's API simplifies the software integration while providing highly accurate results adjusted to transit schedules and overall operations.

Using our API means easy access to all the necessary data to create beautiful and user-friendly apps for users from operations employees to transit passengers.





On-time
Performance



Bus
Bunching



Time
Deviation



Schedule Adherence & Operations

Analyze your schedule adherence, productivity, and maintenance needs.



Passenger per
Revenue Hour



Sensors
Status



Passenger
Mile



Ridership & Occupancy

Calculate your ridership and occupancy levels.



Ins-Outs
(Ons-Offs)



Average
Ridership



Overcrowding
Detection



Total
Ridership



Occupancy
Levels

Governmental Ridership Reporting

Transit agencies and operators worldwide are increasingly relying on our APC data for Governmental Ridership Reporting.

Automatically collected and processed ridership data makes your reporting effortless.



NTD

For our USA clients, our data is qualified for NTD reporting.

MOBILITY > INSIGHT

Crunch the Numbers

Export

[illegible]

Ready to Go Reports

- Ridership
- Occupancy
- Schedule Adherence
- Sampling & reliability
- Maintenance
- And more

MOBILITY > **PLAYBACK**

The Infodev APC systems have a unique feature that can record data every second using Infodev's MicroPoints and MicroEvents Technologies. Review the operations of your vehicle with second per second playback feature.

Track Passengers

Track movement between cars and see occupancy imbalance between them.

From Macro to Micro Data

4 levels of analysis:

- Fleetwide;
- Vehicles;
- Cars;
- Stops.

In-Out Details

Analyze dwell time and passenger boarding/alighting behavior.



Real-Time Data

MOBILITY > REAL-TIME MAP

Get a complete look at your fleet in real-time. With our accurate APC in real-time mode, your team will have the actionable data needed to improve passenger satisfaction and optimize operations.

Detailed View

Get every detail needed for operation monitoring:

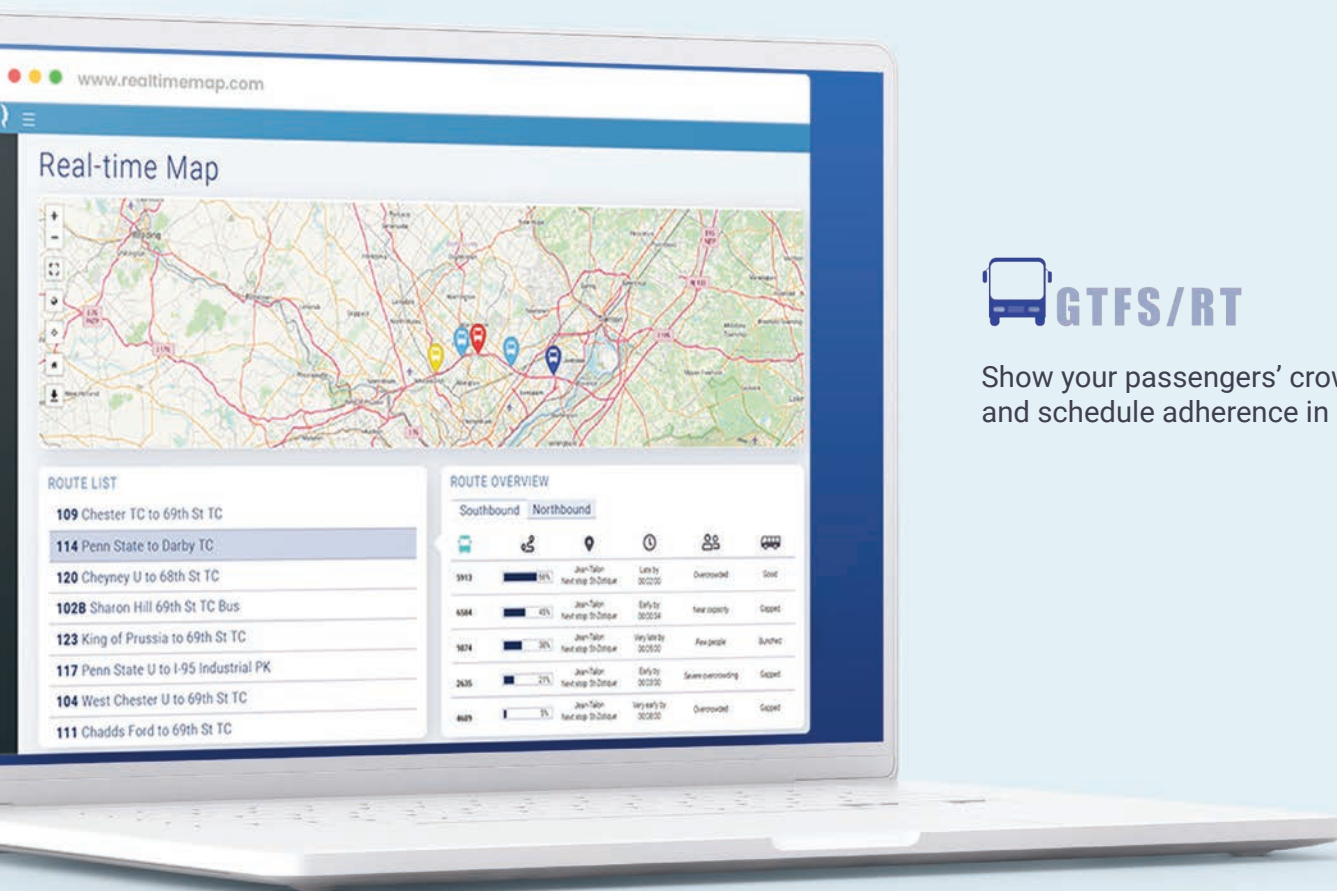
- Vehicle # and Description;
- Route Name and % of Completion;
- Occupancy Status and Crowding %;
- Schedule Adherence Status and Time Deviation;
- Location and Next Stop;
- Bus Bunching Status.

Vehicle Status

Analyse in one look your fleet status with our interactive maps.

For each vehicle, get the following:

- Location;
- Vehicle ID;
- Schedule Adherence Status.



Show your passengers' crowding status and schedule adherence in real-time.

MOBILITY > ROUTE STATUS

Visualize in real-time each active vehicle of your fleet on each route with live APC Data.

Fleet Detailed View

- Visualize each vehicle's status on every route and direction;
- Monitor route completion progress;
- Analyze and compare vehicle ridership and schedule adherence.

Real-Time Data

Get real-time data from our accurate APC sensors to oversee overcrowding, schedule adherence, and bus bunching.

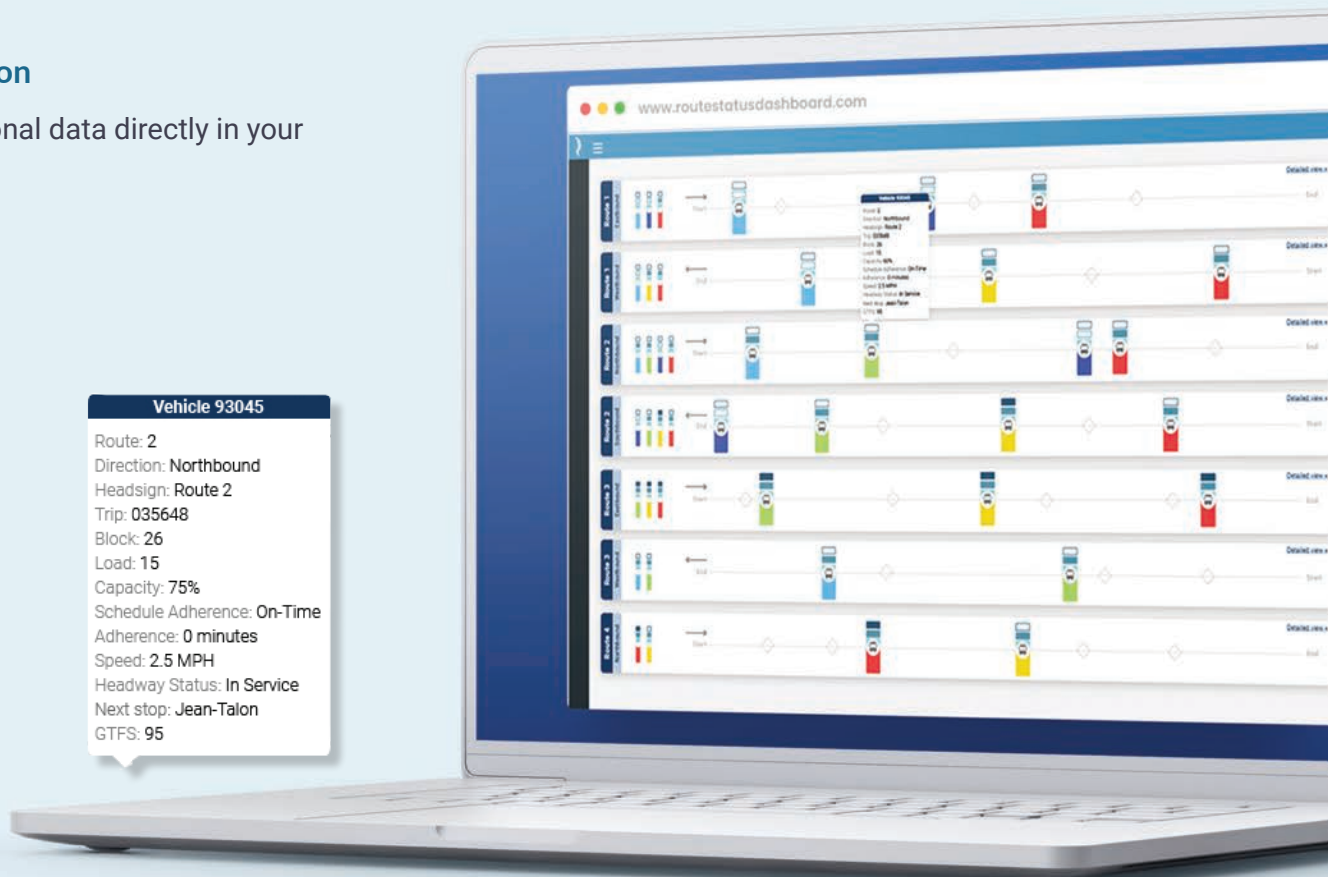
Route History

Get the best of both worlds and compare your real-time data with historical data in our Route History view.

Tooltip Precision

Access operational data directly in your dashboard.

Vehicle 93045
Route: 2
Direction: Northbound
Headsign: Route 2
Trip: 035648
Block: 26
Load: 15
Capacity: 75%
Schedule Adherence: On-Time
Adherence: 0 minutes
Speed: 2.5 MPH
Headway Status: In Service
Next stop: Jean-Talon
GTFS: 95



Complementary tools

MOBILITY > PASSENGER JOURNEY

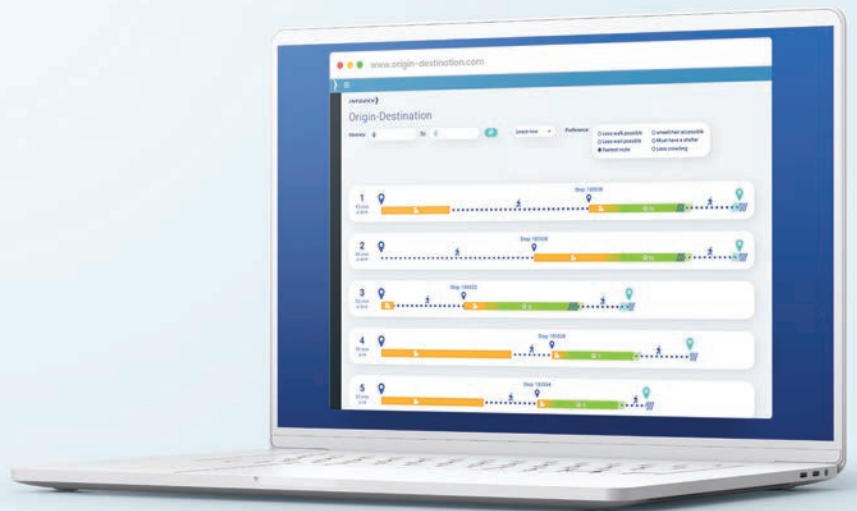
Trip Time Estimations

Get trip time estimations based on historical data such as:

- Schedule Adherence;
- Overcrowding / Occupancy Levels;
- Dwell time;
- Arrival & Departure;
- Speed.

Passenger Preferences

Show trip options based on various passenger preferences.



MOBILITY > SCHEDULE VALIDATOR

Monitor and mitigate the impacts of schedule errors on APC results. For more details, communicate with our team.

Complementary tools

MOBILITY >

To use APC historical data to its full extent, many of our client access and distribute the information through our FTPs and APIs. Access this APC data from anywhere and at any time, and seamlessly integrate it with external tools such as:



FTP

You can easily access a large volume of historical datasets through our user-friendly FTP.

- Select which report must be produced and at which frequency;
- Set up user access levels to ensure that only the appropriate individuals can access the information.

REAL-TIME API

Infodev's APC Systems can provide various real-time information that can be integrated into almost any system using our API.

- Access the latest information from your entire fleet;
- Set up user access levels to ensure that only the appropriate individuals can access the information.

The Mobility Suite is powered by a range of advanced software tools that expertly transmit, diagnose, and match data. Here's a brief description of those essential tools.

GSD

Garage Server Daemon (GSD) is a **communication** platform acting as a **bridge between onboard counting units and the internal network of a transit** (IP, Wifi, Ethernet, Cellular, and more.)

The software manages the process of detecting onboard counting units when they arrive at the maintenance garage as well as the management of tasks such as:

- Retrieval of data;
- Updating of micro-software;
- Diagnostic functions;
- Requests for real-time information from third-party applications.

DIAG

APC Diag is a **web-based reporting software** that provides lots of useful information to **monitor your fleet** and **diagnose** some of the potential problems.

- **DataMap**: Historic communication with onboard APC equipment
- **Summary**: Specific hardware and software information of on-board equipment
- **Counting reports**: Summary of ins/outs per vehicles, doors, or sensors.

PATTERNS NG

Patterns is a powerful software used to **recognize an process the data collected** within your fleet and database. It considers the GPS positioning, vehicle number, passenger counting data, routes, and journeys.

You can import your data according to several industry standards, for example:

- Google Transit™ Feed Specification (**GTFS**)
- Trapeze™ Standard Data Exchange (**TSDE**)
- Giro **HASTUS**™ Export Format
- ACS™ OrbCAD AVL Schedule Interface
- And many other systems





a company by:



Contact us

Insoft is a company owned and operated by Infodev EDI. Infodev's head office is located in Quebec City, Canada.

Don't hesitate to contact us for more information regarding our technology and most recent achievements.



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