



CONNECT THE DOTS

MOBLITY SUITE

Software, Apps & API for Transit

A company by:

INFODEV
Electronic Designers International





INTRODUCTION

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. Insoft Research can provide you and your team a turnkey product that can be easily integrated and customized to help you solve your everyday challenges. InSoft recognize that client's specific analysis and planning are an integral part of business practices in today's transit world, which is why an architectural design service is offered to allow **maximum integration and customization.**



Business Intelligence tools developed exclusively 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 gets you the answers you needed to solve your transit challenges. **From data analysts to top management, we redefine the way people look at transit data.**

MODULES OVERVIEW

Our Mobility Suite constructed of various modules, each offering a specific kind of information. Each module is based on either Historical or Real-Time Data. The 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 provides two types of data, depending on the system architecture you select. With Classical APC system you get Historical Data, perfect for analysis and reporting. With a enhanced APC system, you get Real-Time Data which empowers you to improve your passengers experience.

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



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 to users.



Monitor vehicle positions to identify bus bunching.

CONNECT WITH EXISTING TOOLS

Use Infodev API to push your APC data into existing softwares and apps.

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

This means an 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

Our APC data is increasingly used by transit
agencies and operators around the world 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.

Historical Data

MOBILITY > INSIGHT


Infodev's Mobility Insight tool provides the information needed for operational and strategic decisions. Combining detailed reports and summary dashboards, this turn key product is an essential for solving upcoming transit challenges.

Crunch the numbers

Navigate easily through millions of records in our lean web-based data tables.

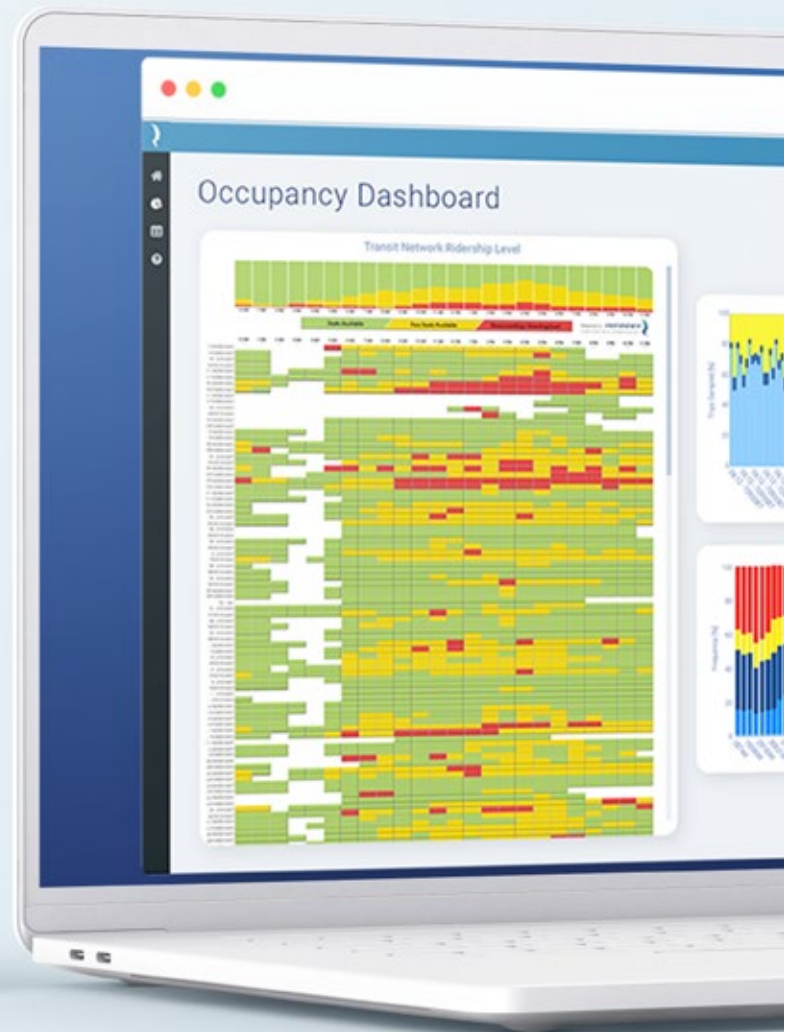
Export

Export your data selection in various common formats. Our CSV export format is compatible with all major BI tools.



The tablet screen shows a web-based data table interface. At the top, there is a 'FILTERS' section. Below it, a 'TABLE' header is visible. The table has columns for 'Contract', 'Time', 'Vehicle', 'Status', 'TimeStatus', 'OccupancyStatus', and 'Route'. The data is organized into sections: 'Deadhead', 'In Service', 'On', and 'Power-On'. Each section contains a list of records with specific details like contract numbers, times, vehicle IDs, and status indicators.

Contract	Time	Vehicle	Status	TimeStatus	OccupancyStatus	Route
Deadhead						
780 Contract	08:14:16	4002	Deadhead	On Time	Empty	
779 Contract	08:14:16	4012	Deadhead	On Time	Empty	
778 Contract	08:14:16	4016	Deadhead	On Time	Empty	
775 Contract	08:14:16	4024	Deadhead	On Time	Empty	
In Service						
773 Contract	08:14:16	4018	In Service	On Time	Empty	LUCYGO
774 Contract	08:14:16	4032	In Service	On Time	Empty	204
775 Contract	08:14:16	4021	In Service	On Time	Empty	204
776 Contract	08:14:16	4013	In Service	On Time	Empty	LUCYGO
777 Contract	08:14:16	4023	In Service	On Time	Empty	204
778 Contract	08:14:16	4030	In Service	On Time	Empty	204
779 Contract	08:14:16	4021	In Service	On Time	Empty	204
780 Contract	08:14:16	4026	In Service	On Time	Empty	204
On						
781 Contract	08:14:16	4031	On	On Time	Occupied	204
782 Contract	08:14:16	4030	On	On Time	Occupied	204
783 Contract	08:14:16	4018	On	On Time	Occupied	204
784 Contract	08:14:16	4019	On	On Time	Occupied	204
785 Contract	08:14:16	4024	On	On Time	Occupied	204
Power-On						
786 Contract	08:14:16	4000	Power-On	On Time	Empty	
787 Contract	08:14:16	4008	Power-On	On Time	Empty	
788 Contract	08:14:16	4004	Power-On	On Time	Empty	
789 Contract	08:14:16	4007	Power-On	On Time	Empty	
790 Contract	08:14:16	4006	Power-On	On Time	Empty	
791 Contract	08:14:16	4005	Power-On	On Time	Empty	
792 Contract	08:14:16	4009	Power-On	On Time	Empty	
793 Contract	08:14:16	4010	Power-On	On Time	Empty	
794 Contract	08:14:16	4014	Power-On	On Time	Empty	
795 Contract	08:14:16	4012	Power-On	On Time	Empty	
796 Contract	08:14:16	4016	Power-On	On Time	Empty	
797 Contract	08:14:16	4020	Power-On	On Time	Empty	



Ready to go Reports

Get actionable data about:

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

Historical Data MOBILITY > PLAYBACK

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

Track Passengers

Track movement between cars and see occupancy imbalance between cars.

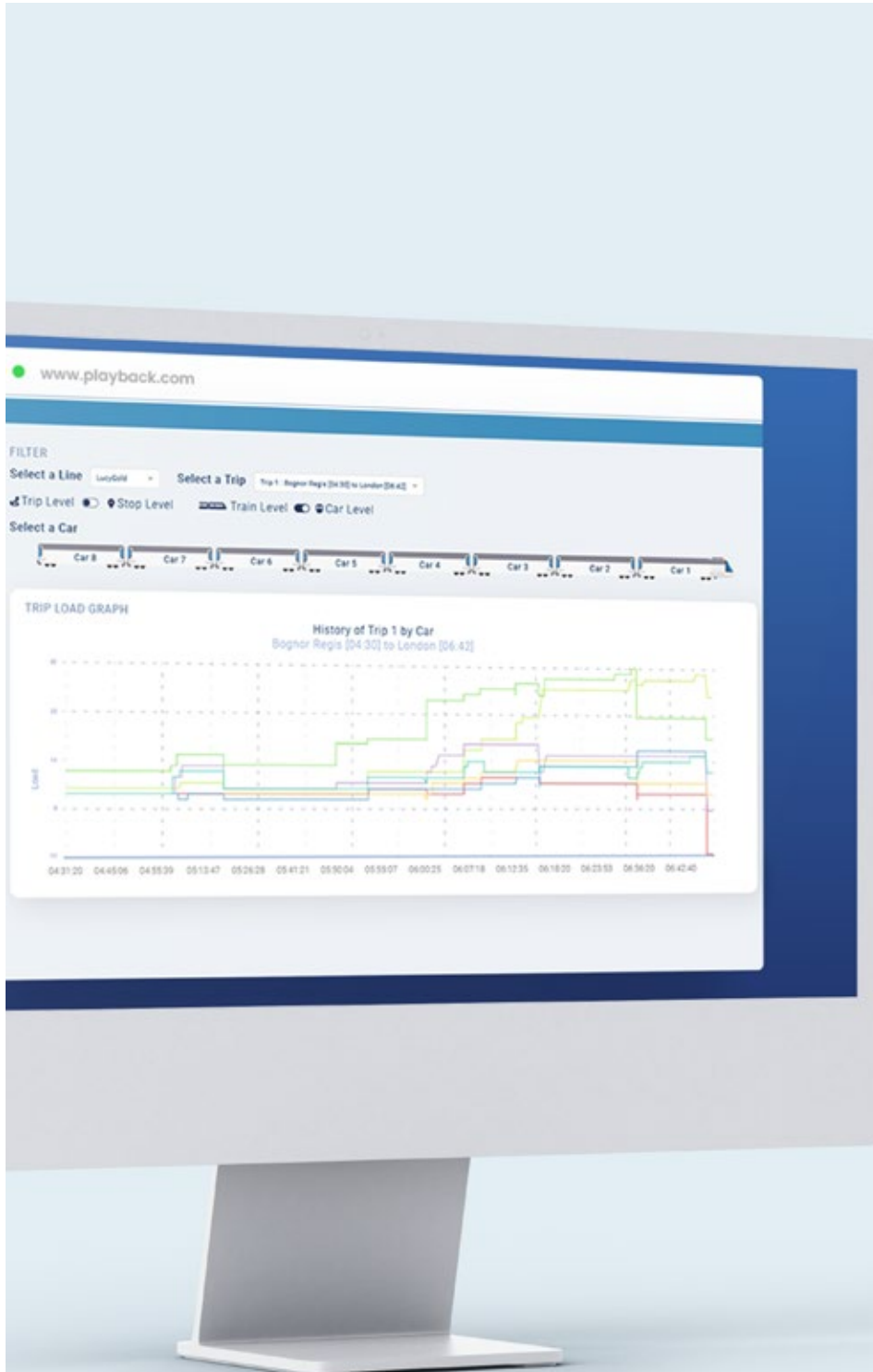
From macro to micro data

4 levels of analysis:

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

In-Out Details

Analyse dwell time and passenger boarding/alighting behavior.



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:

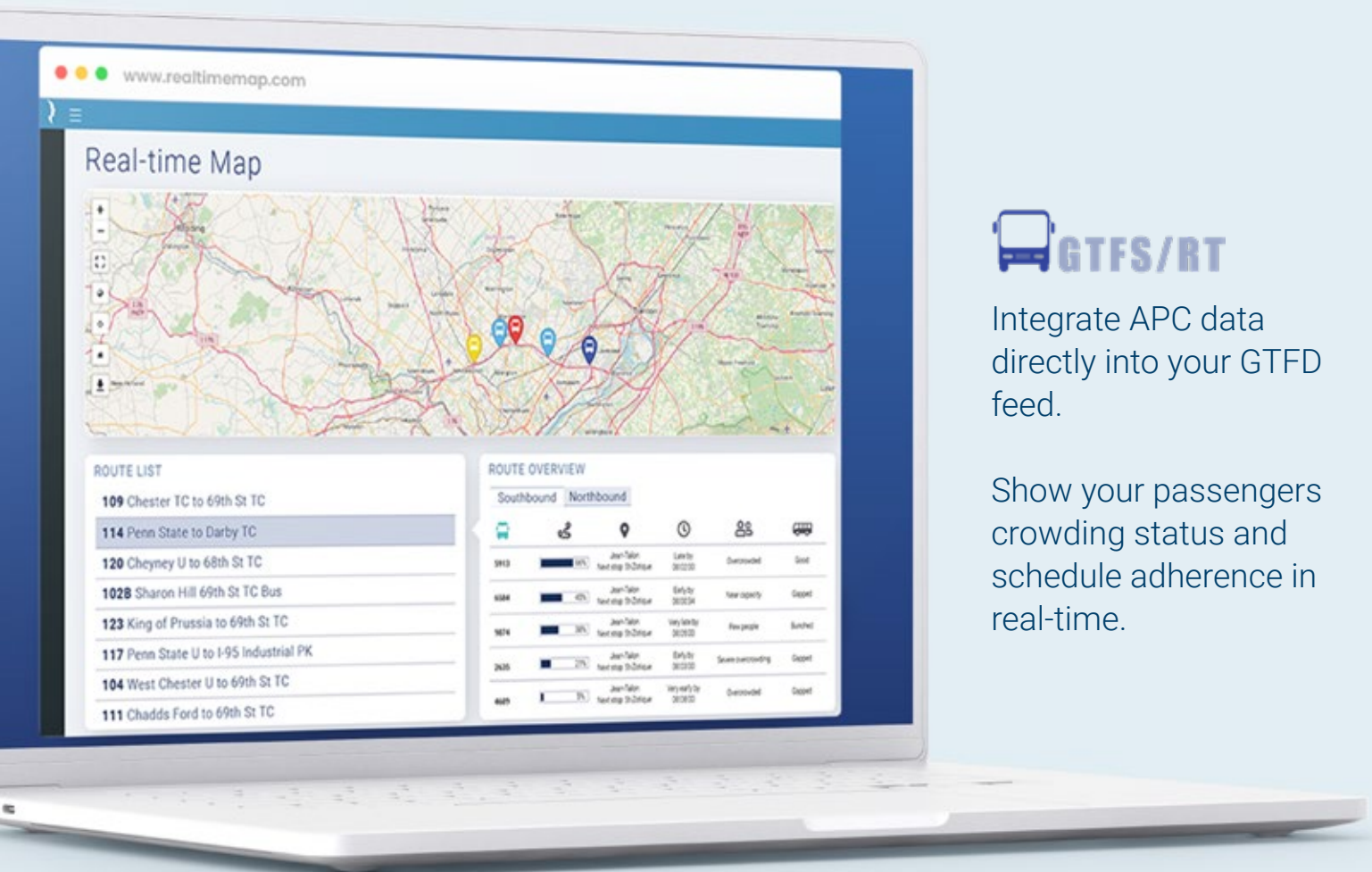
- Vehicle # and Description;
- Route Name and % of Completion;
- Occupancy Status and Crowding %;
- Schedule Adherence Status and Time Deviation;
- Location and Next Stop;
- Bus Bunching Status.

Vehicle Status

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

For each vehicle get:

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



Integrate APC data directly into your GTFD feed.

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

Tooltip Precision

Access operational data directly in your dashboard.

Real-Time Data

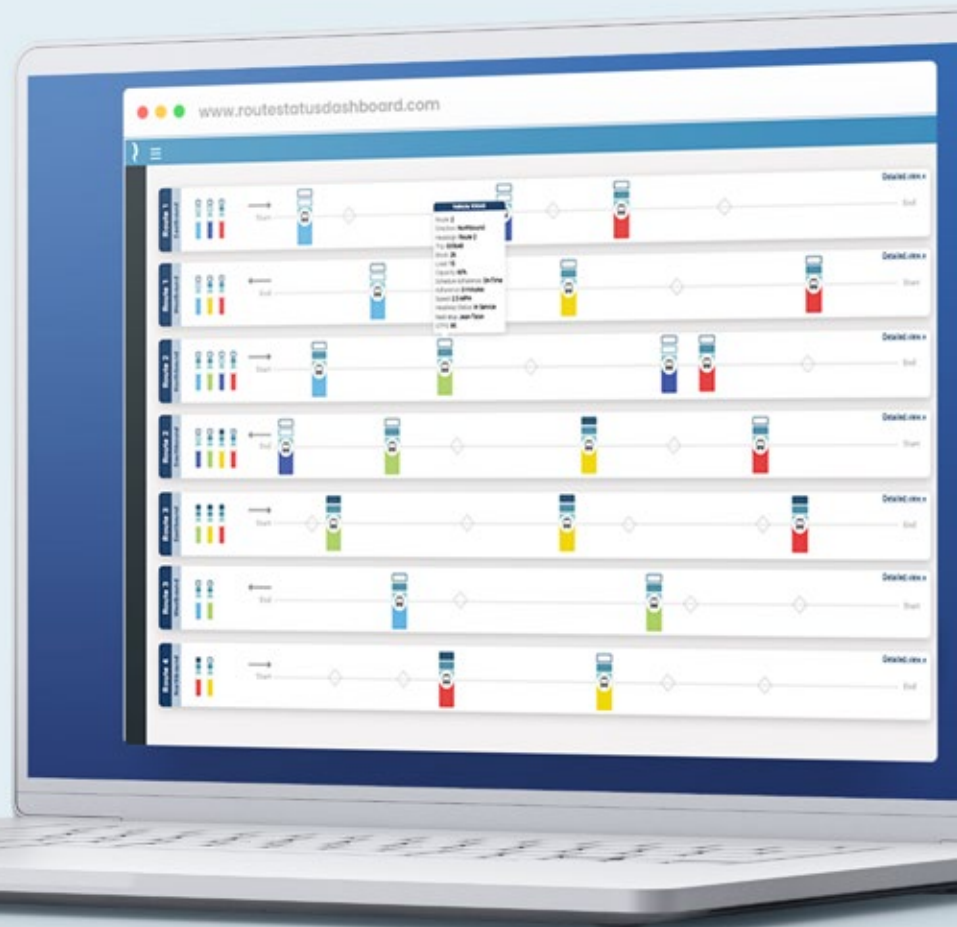
Get real-time data from our accurate APC sensors to oversee overcrowding, schedule adherence and bus bunching.

Route History

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

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 impacts of schedule errors on APC results



Impact Analysis

Identify inconsistencies in your schedule and their impact on:

- Patterns;
- Blocks;
- Trips;
- Stops.

Export Analysis

Export each key component of the analysis in a unique csv.

MOBILITY >

To use APC historical data to its full extend, many of our client access and distribute the information through our FTPs and APIs.

This APC data is accessible from anywhere, anytime and can be easily integrated into external tools such as:



- And much more.

> REAL-TIME API

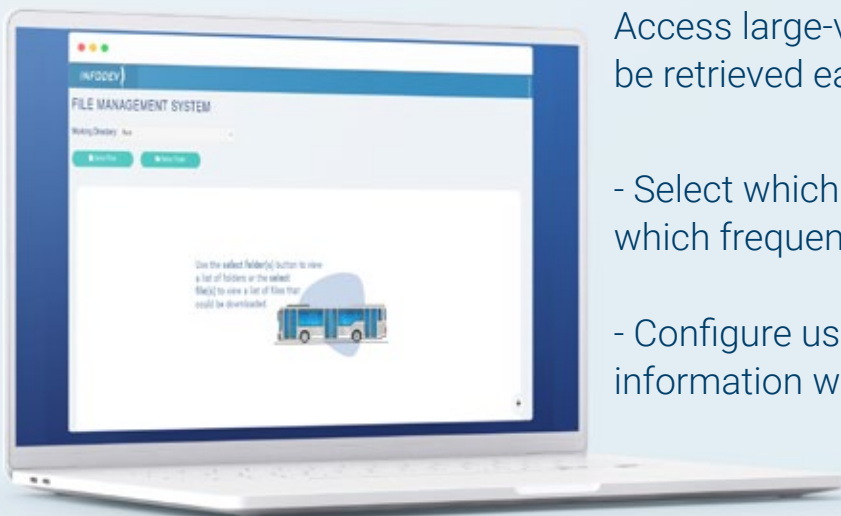
Infodev's APC Systems can provide a variety of real-time information that can be integrated into almost any systems using our API.

- Access the latest information from your entire fleet;
- Configure user access levels and data feeds to share the information with the right people.

> FTP

Access large-volume of historical dataset that can be retrieved easily through our FTP.

- Select which report must be produced and at which frequency;
- Configure user access levels to share the information with the right peoples.





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.

For more information regarding our technology and our most recent achievements, please contact us.



www.insoftresearch.com



info@insoftresearch.com



1995, Frank-Carrel, suite #202
Quebec, QC, Canada G1N 4H9



Tel : +1 (418) 681-3539
Toll free: +1 (888) 869-2652