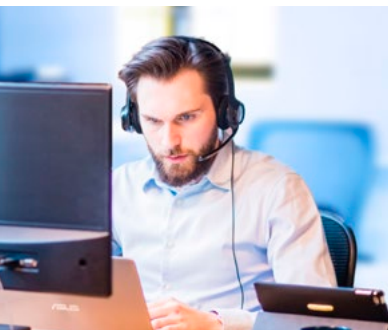


# Crowd Management Solutions

Real-time Passenger Counting for Public Transit



## Crowd Management Solutions

### For Dispatchers

#### The Challenge

Dispatchers need to know if buses are getting too full to ensure proper physical distancing so they can put the vehicle in drop-off only mode and dispatch an additional bus.

#### Prerequisites

- MOBILE-ITCS
- MOBILE-APC

#### The Solution

Vehicle	Block	Route	Radio	Delay	Occup %	Driven %	LastGPSMsg	Datar
101160	7110	71	Data	0	80	4	14.01.15 13:1	
100679	2001	20	Data	-2	60	25	14.01.15 14:6	
101250	7916	79	Data	-2	60	77	14.01.15 13:1	
308049	6501	65	Data	0	60	27	14.01.15 13:1	
100696	2007	20	Data	-5	40	6	14.01.15 14:6	
308032	6301	63	Data	-1	60	98	14.01.15 13:1	
100672	5403	54	Data	-3	60	54	14.01.15 13:1	
410518	2508	25	Data	-2	40	26	14.01.15 13:1	

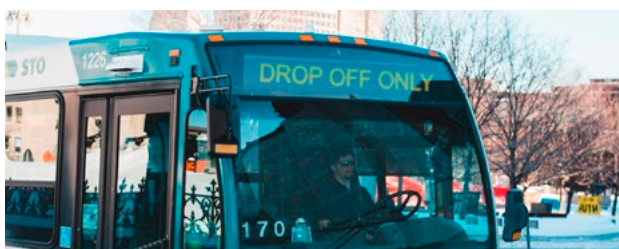
#### Option 1: Real-time APC info

Real-time occupancy information (percentages or actual numbers) can be provided in the Vehicle List, along with a visual cue.

Time	Prig	Type	Text	Vhc	Block	Route	Dela
14:17:1	7	Messages	Missing logon to block 7258	0	7258	72	0
14:16:1	5	Messages	Ahead of time threshold3	35306	1501	15	16
14:16:1	5	Messages	Occupancy at 120%	2243	1512	115	0
14:16:1	5	Messages	Ahead of time threshold3	2297	5269	52	17
14:16:1	5	Messages	Expected logon to block 7259	0	7259	72	0
14:15:1	5	Messages	Ahead of time threshold3	2228	1034	10	25

#### Option 2: Real-time occupancy alerts for dispatcher

Alerts will be provided to dispatchers in real-time if the occupancy status exceed the maximum, as defined in MOBILE-PLAN.



#### Option 3: Put Bus into Drop-off Only Mode

If a bus is at maximum capacity, you can put it into Drop-off only mode using the **Uninterrupted Trip** CASR measure. This will notify the driver not to pick up any more passengers via their MDT, update Real-time Passenger Information (RTPI), and change the destination sign to read "Drop Off Only".



#### Option 4: Add Another Bus

If you need to dispatch an additional bus, you can use the **Additional Flexible Trip** CASR measure to create the trips, insert them into a new or existing block, and assign a vehicle. This will update RTPI accordingly so passengers know another bus is coming.



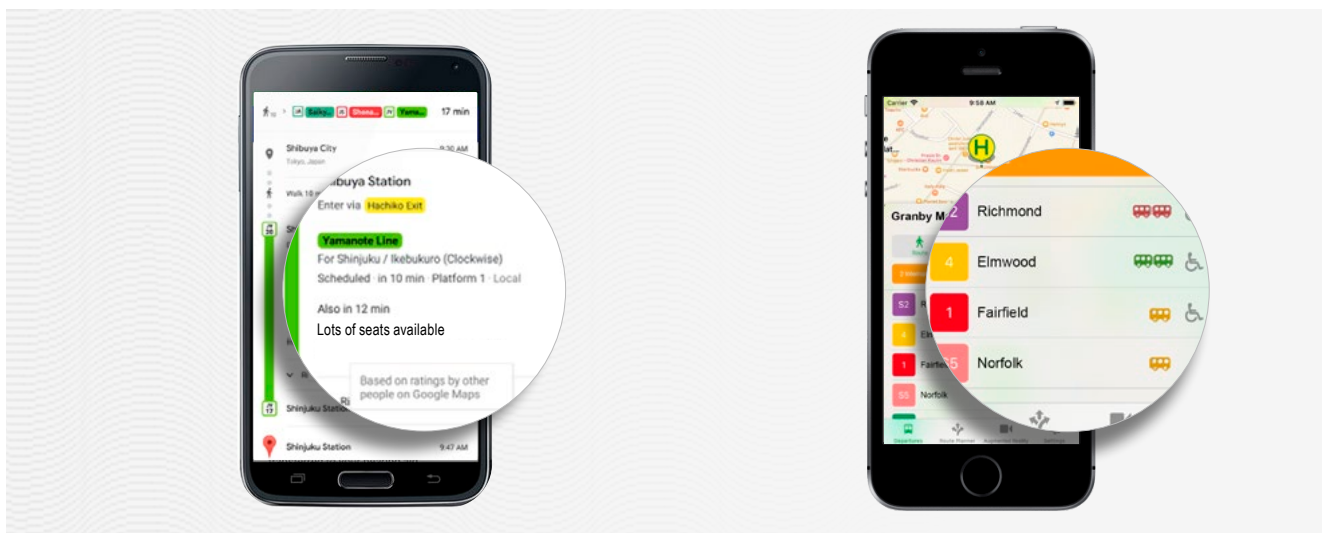
## Occupancy Information

# For Passengers

## The Challenge

Passengers want to know if transit vehicles have adequate space to ensure proper physical distancing. Without this knowledge, they may decide not to take public transit.

## The Solution



### Option 1: Add occupancy status to third party apps including Google Transit

INIT can provide the real-time occupancy status to third party apps through the GTFS-RT interface.

#### Prerequisites

- MOBILE-ITCS
- MOBILE-APC
- GTFS-RT
- Existing third party app

### Option 2: Add occupancy status to DEPARTURESlive

INIT can provide an app displaying real-time occupancy status. With DEPARTURESlive, INIT's iOS and Android app, passengers can access real-time passenger information quickly and conveniently. They simply select stops from a list, map or from their bookmarks, and then receive reliable information on the next departures. The app also has a journey planner and assistive add-on for mobility impaired riders.

#### Prerequisites

- MOBILE-ITCS
- MOBILE-APC



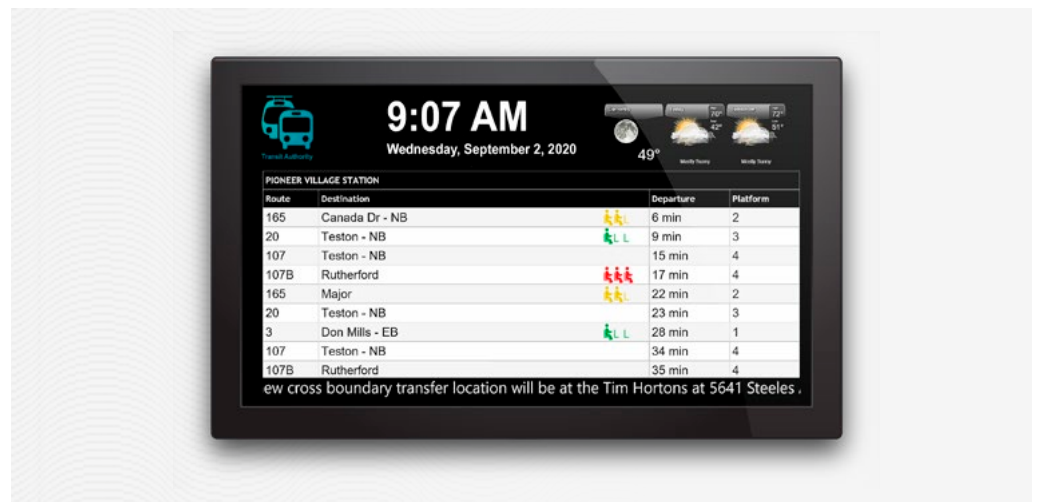
## Occupancy Information

# For Passengers

## The Challenge

Passengers want to ensure there is adequate space available before they board a transit vehicle. This information will help them decide which vehicle to board and will restore their sense of safety while riding public transit.

## The Solution



### Option 3: Add occupancy status to wayside signs

INIT can display the real-time occupancy status on wayside signs, so that the passenger can see the occupancy level of the train or bus while they're waiting at a stop or station.

#### Prerequisites

- MOBILE-ITCS
- MOBILE-APC
- Wayside signs

Ready to learn more? Contact us today for more information at [sales@initusa.com](mailto:sales@initusa.com).

All information in this data sheet are to be perceived as proposals for configuration and don't necessarily belong to the basic scope of supply. The product is individually set up in accordance with customer requirements and corresponding commissioning.

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