



*"Skyview is a comprehensive
Tool that lets you run your
entire Fleet Organisation
through a single, easy-to-use
interface"*

Skyview provides a complete telematics solution that offer real-time **bus monitoring, scheduling, driver shifts, bus arrival/departure data, real-time passenger information, reporting**, and integration with 3rd party software (Hastus, Fare Collection Systems, etc).

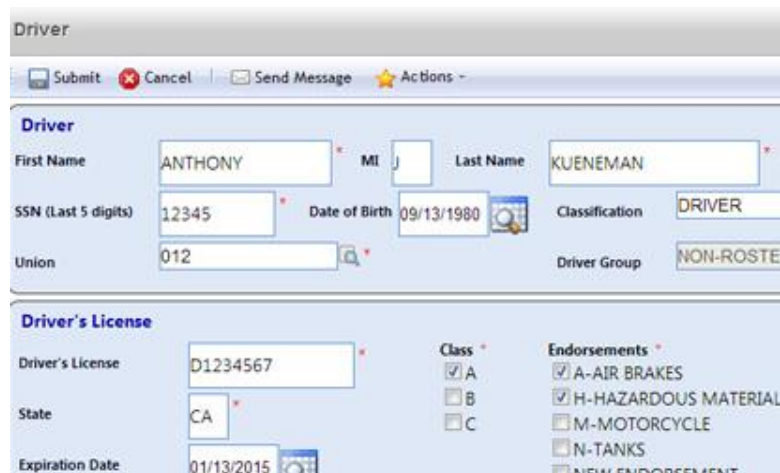
The purpose of Skyview is to improve the management capability of your Public Transport Organisations, to monitor every aspect of your operations, and to manage the day to day running of your fleet and services using an advanced Fleet Management System.



A typical daily routine using Skyview...

...In the CityBus office, 05:00am...

Jane comes in to work early morning. The drivers have all been assigned their monthly schedules, using Skyview Driver Scheduling. The software has made her life very easy: it impartially assigns routes and timetables to drivers, but takes into account any inflexible parameters (John for example, can't work on Saturday mornings because he needs to take his kid to football practice).



The screenshot shows the 'Driver' form in the Skyview Driver Scheduling software. The form is divided into two main sections: 'Driver' and 'Driver's License'.

Driver Section:

- Buttons: Submit, Cancel, Send Message, Actions
- First Name: ANTHONY
- MI: J
- Last Name: KUENEMAN
- SSN (Last 5 digits): 12345
- Date of Birth: 09/13/1980
- Classification: DRIVER
- Union: 012
- Driver Group: NON-ROSTE

Driver's License Section:

- Driver's License: D1234567
- State: CA
- Expiration Date: 01/13/2015
- Class: ☒ A, ☐ B, ☐ C
- Endorsements: ☒ A-AIR BRAKES, ☒ H-HAZARDOUS MATERIAL, ☐ M-MOTORCYCLE, ☐ N-TANKS, ☐ NEW ENFORCEMENT

She turns on Skyview and sees a problem: Bus 1208 won't start and needs to go in for maintenance. Thankfully bus 1301 is available and can be used instead. 20 seconds later, after a few button presses, Jane updates the scheduling software and assigns bus 1301 to perform route 82A – instead of bus 1208. Jane goes to grab a coffee; there's nothing else for her to do – she knows Skyview will automatically send out an update notification to any driver assigned to bus 1208, as well as to the stationmaster who's job it is to make sure all buses leave on time.

...John's House, 05:05am...

John is a driver for CityBus. He wakes up in the morning and checks his phone. A notification awaits – there's been a slight change to his schedule: he'll be driving bus 1301 today, instead of 1208. Thanks to the **Skyview Driver App**, John has access to his driver schedule, with real-time updates.

...At the Bus Station, 6:48am...

John enters bus 1301 and waves his contactless personal tag over the driver screen to signal the start of his shift – he's 7 minutes early, plenty of time to enjoy a few sips of coffee. The screen briefly greets him, before showing him his assigned routes and timetables of the shift.

Καρτέλα Οχήματος 615

ΟΧΗΜΑ: 615 ΥΜΙ 1615
 ΓΡΑΜΜΗ: 224 ΚΑΙΣΑΡΙΑΝΗ - ΕΛ. ΒΕΝΙΖΕΛΟΥ
 ΚΑΤΑΣΤΑΣΗ: Μετάβαση
 ΔΙΑΔΡΟΜΗ: Τ.Σ. ΚΑΙΣΑΡΙΑΝΗΣ → Τ.Σ. ΕΛ. ΒΕΝΙΖΕΛΟΥ

Γενικά 1.2 Αποστάσεις-Χρόνοι Στάσεις Μετάβασης Στάσεις Επιστροφής

Όχημα
 Νο Οχήματος: 615 Κωδ. Οχήματος: 615
 Περιγραφή Οχήματος: ΥΜΙ 1615

Τελευταίο Σημείο
 Ημ/νία: 08/10/2014 19:20:39
 Χ: 23.7546633
 Υ: 37.9697250

Προηγούμεν. Σημείο
 Απόσταση: 24
 Χρόνος: 7

Ταχύτητα Χιλ/ώρα
 GPS: 0,00
 Μ.Ο. Σημείων: 12,35

Γεωγραφικό Σημείο
 16 Λεωφόρος Βασιλέως
 Αλεξάνδρου, 161 21
 Καισαριανή, Ελληνική
 Δημοκρατία

Σειρά Εξόδου
 Α/Α: 8

Κλιματισμός
 Κλειστός

Μηχανή
 Σε λειτουργία

Ακυρώσεις Διαδρομής

...Bus Station, 7:00am, Stationmaster's Office...

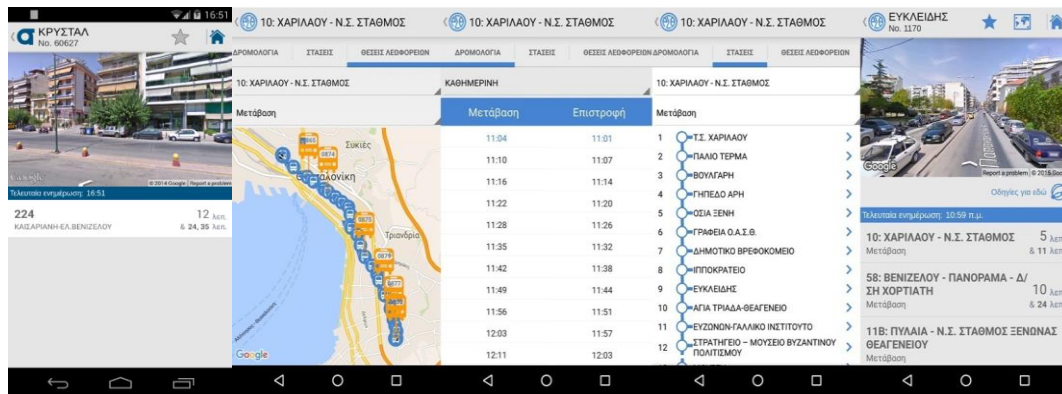
The stationmaster looks at his tablet with real-time status updates...good, John left on time with the replacement bus.

Hmm, bus 2267 hasn't left yet – better go find out what's wrong, wait, never mind – it just departed five minutes late. Better have a word with the driver later!

Current Time: 07:00 , Date: 2016-05-05					
Bus Line	Direction	Assigned Departure Time (mins)	Time Difference (mins)	Vehicle Code	Status
17 – City Centre to West City	Transit	06:50	+2	3205	Departed
82A – City Centre to Seaside	Transit	06:55	0	1301	Departed
32 – City Centre to East City	Transit	06:55	+5	2267	Delayed
01 – MyTown to City Centre	Return	07:05		8686	In Progress

...City Worker 7:15am, sitting at home...

Time to go to work! The woman checks her phone for live bus updates...hmm, seems bus 32 is running a few minutes late today – 12 minutes left until it arrives. She takes a few extra minutes getting ready, before heading out. She arrives at the bus stop, which displays 2 minutes until arrival.



Mobile App



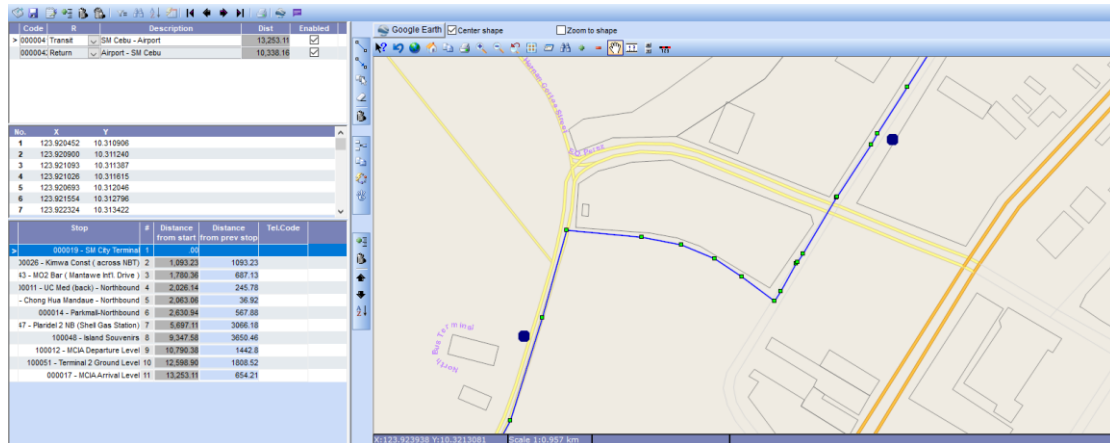
Bus Stop Display

Finally, the bus arrives. Once onboard, the woman takes a seat and gazes up at the passenger display, showing the bus route and position in real time.



...CityBus Offices, 09:00am...

Jane has a busy day. Roadworks mean that a route needs to be slightly altered for the next 2 weeks, and the schedule adjusted. With a few clicks she generates a temporary route based off the regular one, assigns the expected timeframe it will be used for, and makes slight adjustments to the schedule.



System Tools Data Stops Lines-Routes Alerts Scheduling Reports Map Parameters User Management Window Help

Schedule Categories Departure Sequencing Parameters

Options

Vehicles by Type

Search...

☒ CENWOOD (4)

☒ HERCULES RENZ (18)

☐ VOLVO BUS (17)

Total: (39) vehicles

Vehicles by Type

Vehicles by Line

Vehicle Search

Bus Stops

POI

Server Log

Date: Module: Description:

LINE ROUTES: 000004 SMCC - MCIA All Year Round - Daily

24/01/2009 - 24/01/2009 / All Year Round - Daily

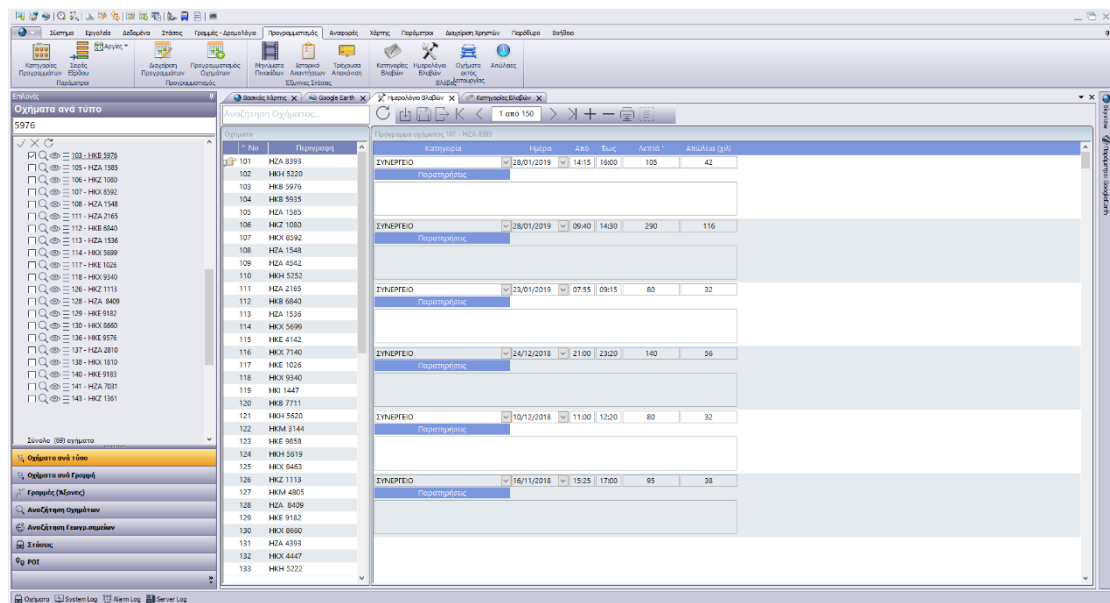
Insert empty (null) Delete Table x 10 1,2,3

#	SHR	Start	Route	Block	Map	Line 1	Line 2	Departure	From	Arrival	To	Time	Line 1	Line 2	Departure	From	Arrival	To	Time
1	1	05:45	S->E	4001	1	000004		06:00	SMCC	06:59	MCIA	59	000004		07:00	MCIA	07:59	SMCC	59
7	1	05:45	S->E	4002	1	000004		06:20	SMCC	07:19	MCIA	59	000004		07:20	MCIA	08:19	SMCC	59
13	1	05:45	S->E	4003	1	000004		06:40	SMCC	07:39	MCIA	59	000004		07:40	MCIA	08:39	SMCC	59
19	1	05:45	S->E	4004	1	000004		07:00	SMCC	07:59	MCIA	59	000004		08:00	MCIA	08:59	SMCC	59
43	1	05:45	S->E	4008	1	000004		07:20	SMCC	08:19	MCIA	59	000004		08:20	MCIA	09:19	SMCC	59
15	1	05:45	S->E	4005	1	000004		07:20	SMCC	08:19	MCIA	59	000004		08:20	MCIA	09:19	SMCC	59
31	1	05:45	S->E	4006	1	000004		07:40	SMCC	08:39	MCIA	59	000004		08:40	MCIA	09:39	SMCC	59
37	1	05:45	S->E	4007	1	000004		08:00	SMCC	08:59	MCIA	59	000004		09:00	MCIA	09:59	SMCC	59
2	1	05:45	S->E	4001	2	000004		08:20	SMCC	09:19	MCIA	59	000004		09:20	MCIA	10:19	SMCC	59
8	1	05:45	S->E	4002	2	000004		08:40	SMCC	09:39	MCIA	59	000004		09:40	MCIA	10:39	SMCC	59
14	1	05:45	S->E	4003	2	000004		09:00	SMCC	09:59	MCIA	59	000004		10:00	MCIA	10:59	SMCC	59
20	1	05:45	S->E	4004	2	000004		09:20	SMCC	10:19	MCIA	59	000004		10:20	MCIA	11:19	SMCC	59
26	1	05:45	S->E	4005	2	000004		09:40	SMCC	10:39	MCIA	59	000004		10:40	MCIA	11:39	SMCC	59
44	1	05:45	S->E	4008	2	000004		09:40	SMCC	10:39	MCIA	59	000004		10:40	MCIA	11:39	SMCC	59
32	1	05:45	S->E	4006	2	000004		10:00	SMCC	10:59	MCIA	59	000004		11:00	MCIA	11:59	SMCC	59
38	1	05:45	S->E	4007	2	000004		10:20	SMCC	11:19	MCIA	59	000004		11:20	MCIA	12:19	SMCC	59
3	1	05:45	S->E	4001	3	000004		10:40	SMCC	11:39	MCIA	59	000004		11:40	MCIA	12:39	SMCC	59
9	1	05:45	S->E	4002	3	000004		11:00	SMCC	11:59	MCIA	59	000004		12:00	MCIA	12:59	SMCC	59
15	1	05:45	S->E	4003	3	000004		11:20	SMCC	12:19	MCIA	59	000004		12:20	MCIA	13:19	SMCC	59
21	1	05:45	S->E	4004	3	000004		12:00	SMCC	12:59	MCIA	59	000004		13:00	MCIA	13:59	SMCC	59
27	1	05:45	S->E	4005	3	000004		12:20	SMCC	13:19	MCIA	59	000004		13:20	MCIA	14:19	SMCC	59
45	1	05:45	S->E	4008	3	000004		12:20	SMCC	13:19	MCIA	59	000004		13:20	MCIA	14:19	SMCC	59
33	1	05:45	S->E	4006	3	000004		12:40	SMCC	13:39	MCIA	59	000004		13:40	MCIA	14:39	SMCC	59
39	1	05:45	S->E	4007	3	000004		13:00	SMCC	13:59	MCIA	59	000004		14:00	MCIA	14:59	SMCC	59

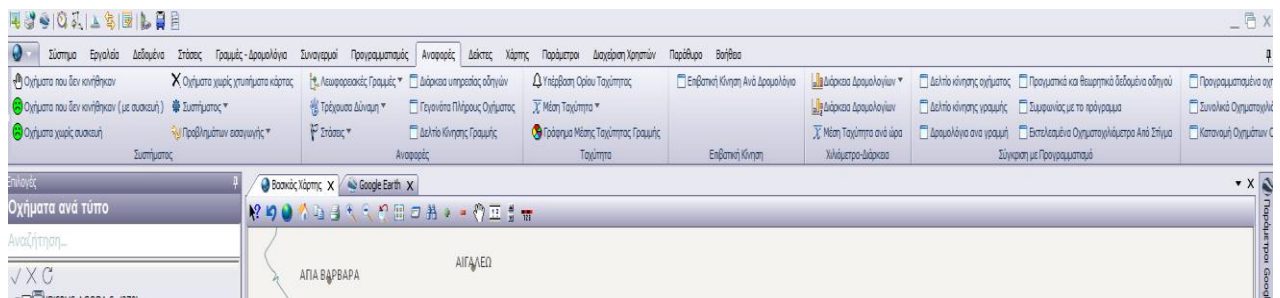
10 From 45

Next up: Management want a report showing how many of the scheduled routes planned were actually performed. They also want a detailed maintenance report for all buses that broke down more than once over the past 3 months. Bus 1208 is the latest one to have trouble. Approximately 30% of the fleet is comprised of older buses and whilst some are going strong, it seems that a few have so many problems that it makes sense to retire them.

By seeing how many routes fail to be completed, they can get a sense of the overall fleet health. By using the maintenance reports they can determine which old buses are still healthy enough to keep, and which need to be sidelined. Jane dutifully exports the reports into an excel file, along with some graph and bar charts, and emails them to her boss.



Skyview has a wide range of reports and is flexible enough to allow easy addition of new types, as required.



Next up: Payroll. They want a list of the scheduled and actual hours driven by all drivers for the month. No problem! A minute later Jane has the report ready, showing a detailed list, separating night-shifts from day shifts, with a separate column for unscheduled overtime.

Just as she's about to finally relax, an alert sounds from her speakers, and a window pops up on screen: Driver speeding. The alert shows the bus number, driver, location, and how over the limit the driver is going. Jane taps a button and is immediately connected to the driver for a live voice-call.

"John, you're going 10km/h over the limit."
She pulls up the speeding history of the driver.

"I see this is the 2nd time this month – I don't want to have to send you an official reprimand because they'll dock your wages, but I'll have to if you do it a third time. Please try to be careful!"

ΕΛΕΓΧΟΣ ΟΡΙΟΥ ΤΑΧΥΤΗΤΑΣ GPS

Από: 13/10/2014 00:00:00 Έως: 13/10/2014 12:09:13 Όριο: 70 χλμ/ώρα

Νο Οχήμα	Κωδικός	Περιγραφή	Ημερία	Ταχύτητα
1614	ΥΜΙ 1614			
Οδηγός:				
		13/10/2014 10:03:58	70.56	
		13/10/2014 10:04:19	73.15	
		13/10/2014 10:04:39	73.33	
		13/10/2014 10:04:43	75.19	
		13/10/2014 10:06:00	62.78	
1617	ΥΜΙ 1617			
Οδηγός:				
		13/10/2014 05:39:31	70.19	
		13/10/2014 05:39:56	70.75	
		13/10/2014 05:42:17	71.67	
		13/10/2014 05:42:21	72.41	
		13/10/2014 05:42:26	74.08	
		13/10/2014 05:42:30	74.26	
		13/10/2014 05:42:35	73.15	
		13/10/2014 05:42:46	70.75	
		13/10/2014 05:42:51	71.50	
		13/10/2014 05:42:56	71.49	
		13/10/2014 05:43:01	71.86	
		13/10/2014 05:44:59	64.08	

Σελίδα 1 από 48 admin_pass - 13/10/2014 12:10

Next task of the day – Jane checks the low-priority alerts:

- A couple of drivers will have their licenses expire in a few weeks – Jane makes a note to have them recertified.
- A few vehicles are scheduled for an oil change – maintenance should already be aware, but doesn't hurt to check with them to be sure.

Jane opens up the Skyview Messaging tab and leaves a quick note for the head technician. "That's the nice thing about Skyview", she thinks "Every tool I could possibly need is available in a single piece of software, with a user-friendly interface anyone can navigate."

To...

Title: Bus 2261 Oil Change

Message:

Hi Clifford - will you need bus 2261 on Thursday 22nd for the scheduled oil change? If so, will bus 3371 be all fixed up by then, so I can use it instead?

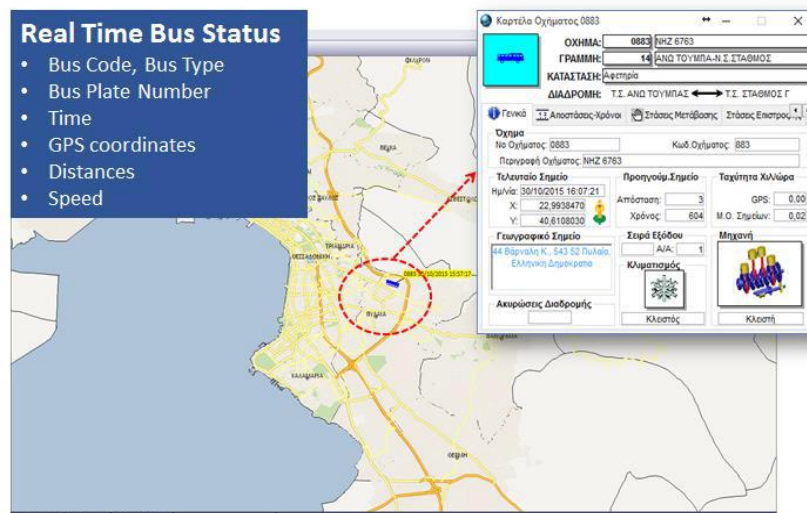
Send Cancel

Before Jane can check the reply, an SOS alert comes up.

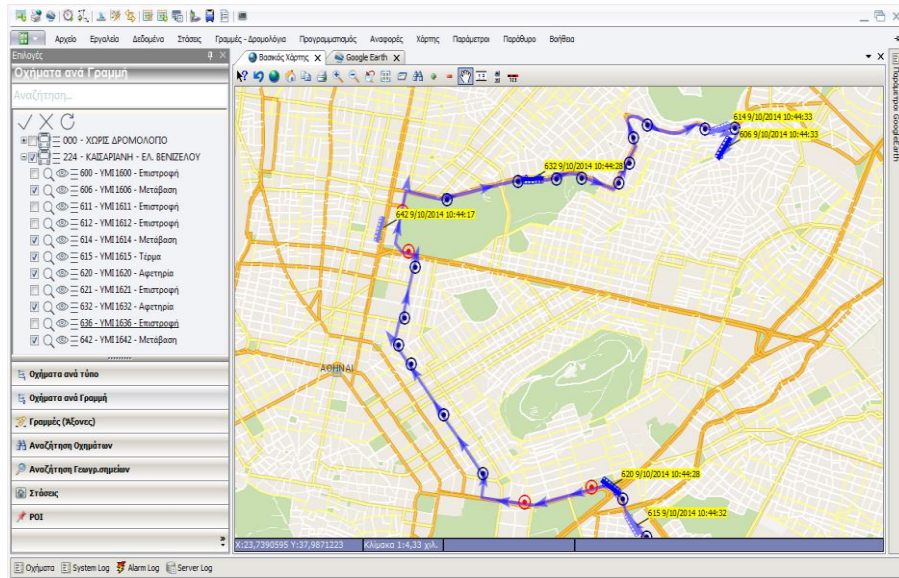
“Vehicle Accident”

Those are always a pain to difficult, but almost a daily routine in a bus company with over 500 vehicles. She follows protocol, as usual:

- Jane contacts the driver who informs her that a car crashed into him as he was parked at a bus stop with the doors open.
- She then assigns a backup bus to pick up the passengers to continue the route.
- And because she knows the lawyer and insurance rep will be knocking on her door later, she does a quick investigation and prints out all pertinent information.
 - First she checks the bus status:



- Secondly, she checks the vehicle trajectory history and verifies the bus was on route and at the bus stop at the time of the SOS.



- Then she checks the event log. Thankfully, the bus OBU – On Board Computer – collects a wide range of useful information. The speedometer and GPS confirm the bus was indeed stationary, the GPS confirms the bus was at the bus stop and parked on the side of the road in the designated bus stop area, and the door sensor reports the doors were indeed open.

...Later on that day, Jane heads home ...

It's been a typical day for Jane – responding to requests, making sure operations run smoothly, and even putting out a fire or two. But that's what makes the job exciting – no day is ever the same. No matter what happens though, Jane knows she can handle it – she has Skyview. With the entire organisation available at her fingertips, every bus, driver, event, route – everything! – and all in real-time, Jane has the tools and information she needs to keep operations running smoothly.

