

DOTC Bus Management Information System

System Screenshots



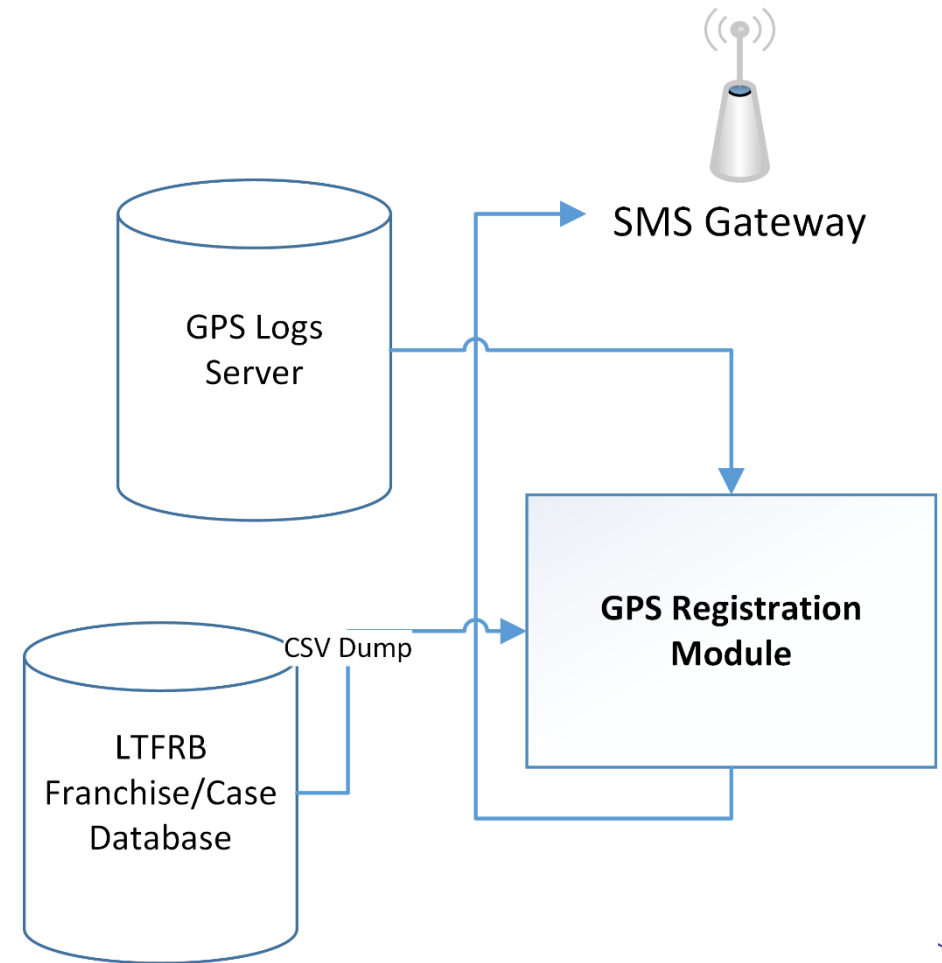
The Bus Management Information System

- The DOTC Bus Management Information System (BMIS) is envisioned to become a comprehensive Information Technology solution to address the need to manage, monitor and improve the services provided by public utility buses (PUB) not only in Metro Manila, but the rest of the country.
- The BMIS Proof of Concept System was internally developed by DOTC-Planning in cooperation with ASTI-DOST, LTFRB and MMDA
- The system is envisioned to be open source and open data to encourage adaptation of the system as well as continuous innovation.
- Consists of three main modules: GPS Registration System, Bus Management System, Bus Information System



GPS Registration System

- Used by the LTFRB to match GPS devices with specific vehicles.
- Utilizes a SMS-based registration process designed by ASTI-DOST
- The registration module uses SMS and Internet connectivity to communicate with the GPS devices to ensure that these are sending the correct signals to the GPS Server
- Generates a Registration Certificate for the franchise holder.





OPERATOR NAME

Jam

CASE NUMBER

SEARCH BY CASE #

PLATE NUMBER

SEARCH BY PLATE #

CHASSIS NUMBER

SEARCH BY CHASSIS #

PL5UN58JD9K360041 (DXV300) - 2009-0802A JAM LINER INC

PL5UN58JD9K360054 (DXV500) - 2009-0802 JAM LINER INC

PL5UN58JD9K360042 (DXV410) - 2009-0802A JAM LINER INC

PL5UN58JD9K360055 (DXV510) - 2009-0802 JAM LINER INC

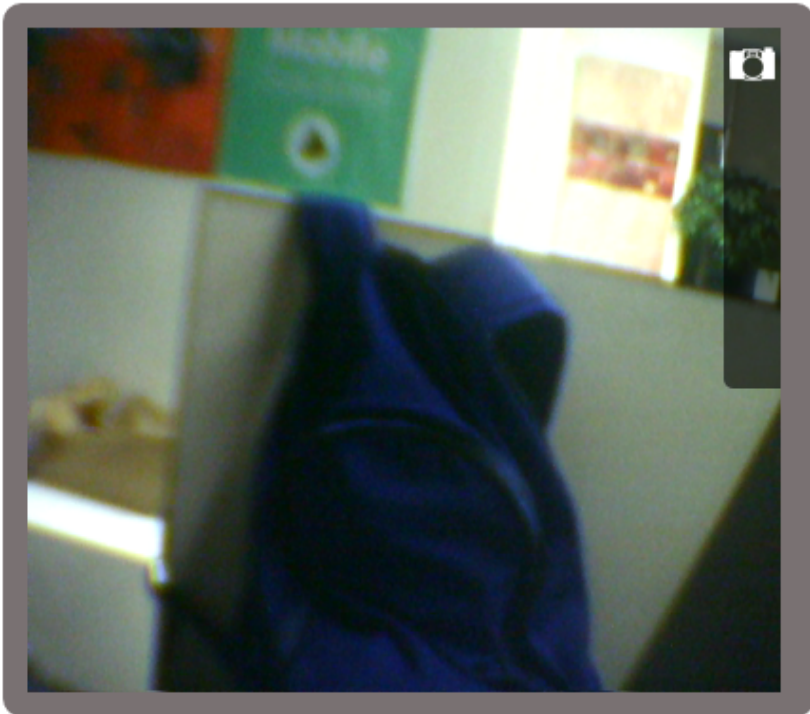
PL5UN58JD9K360044 (DXV420) - 2009-0802A JAM LINER INC

PL5UN58JD9K360057 (DXV520) - 2009-0802 JAM LINER INC

RB46501388 (DWF620) - 2004-0210 JAM LINER INC

EDIT SELECTED





LASTNAME

 FIRSTNAME

 TITLE

 ID NUMBER

 CONTACT NUMBER

 EMAIL

AUTHORIZED REPRESENTATIVE ?

OPERATOR

JAM LINER INC

CASE NO. *2009-0802A*

BUS. ADDRESS





COMM. NAME

EMAIL



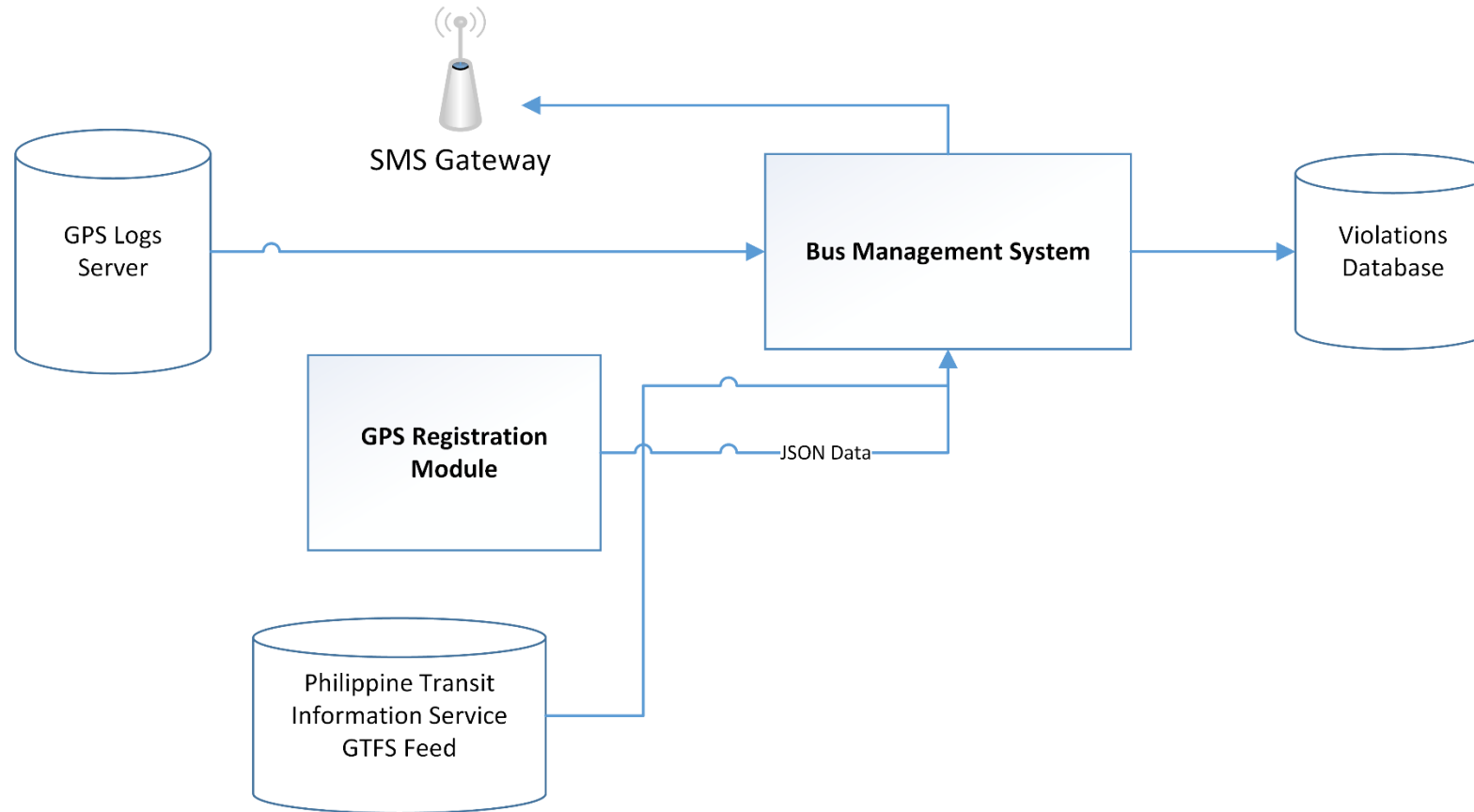
IDENTITY OF UNITS



PLATE#	LAST SEEN 	SMS RECEIVED	DEVICE	GPS ID	PASSWORD	INTERVAL (sec)	PHONE #	ACTIONS
<u>DXV300</u>			-- SELECT DEVICE --	GPS ID	GPS PASSW	60	+639 ASSIGN CP #	  

Bus Management System

- The **Bus Management System** provides tools for the DOTC, LTFRB, and MMDA to monitor the performance of buses across the country.



Bus Management System

- Users can view specific areas, routes, operators and vehicles in real-time.
- Reports on potential overspeeding and out-of-line buses are automatically generated on a daily basis.
- GPS data on Violations will be stored long term in a separate “Violations Database”
- The system can be used to help in strategic planning and rationalization of transport routes by providing a rich set of data.





- UYB413
H M TRANSPORT INC
2003-3821
Sta. Cruz (Laguna)-Cubao(QC)via
Masapang Highway

- UYB663
H M TRANSPORT INC
2003-3821
Sta. Cruz (Laguna)-Cubao(QC)via
Masapang Highway

- UYB673
H M TRANSPORT INC
2003-3821
Sta. Cruz (Laguna)-Cubao(QC)via
Masapang Highway

- UYB683
H M TRANSPORT INC
2003-3821
Sta. Cruz (Laguna)-Cubao(QC)via
Masapang Highway

- UYB724
H M TRANSPORT INC
2003-3821
Sta. Cruz (Laguna)-Cubao(QC)via
Masapang Highway

- UYB834
H M TRANSPORT INC
2003-3821

REALTIME
HISTORICAL
X

Routes

Operator

Area

Vehicle Search

Violations

Select Franchise

2003-3821

Date Time Start

2015-10-27

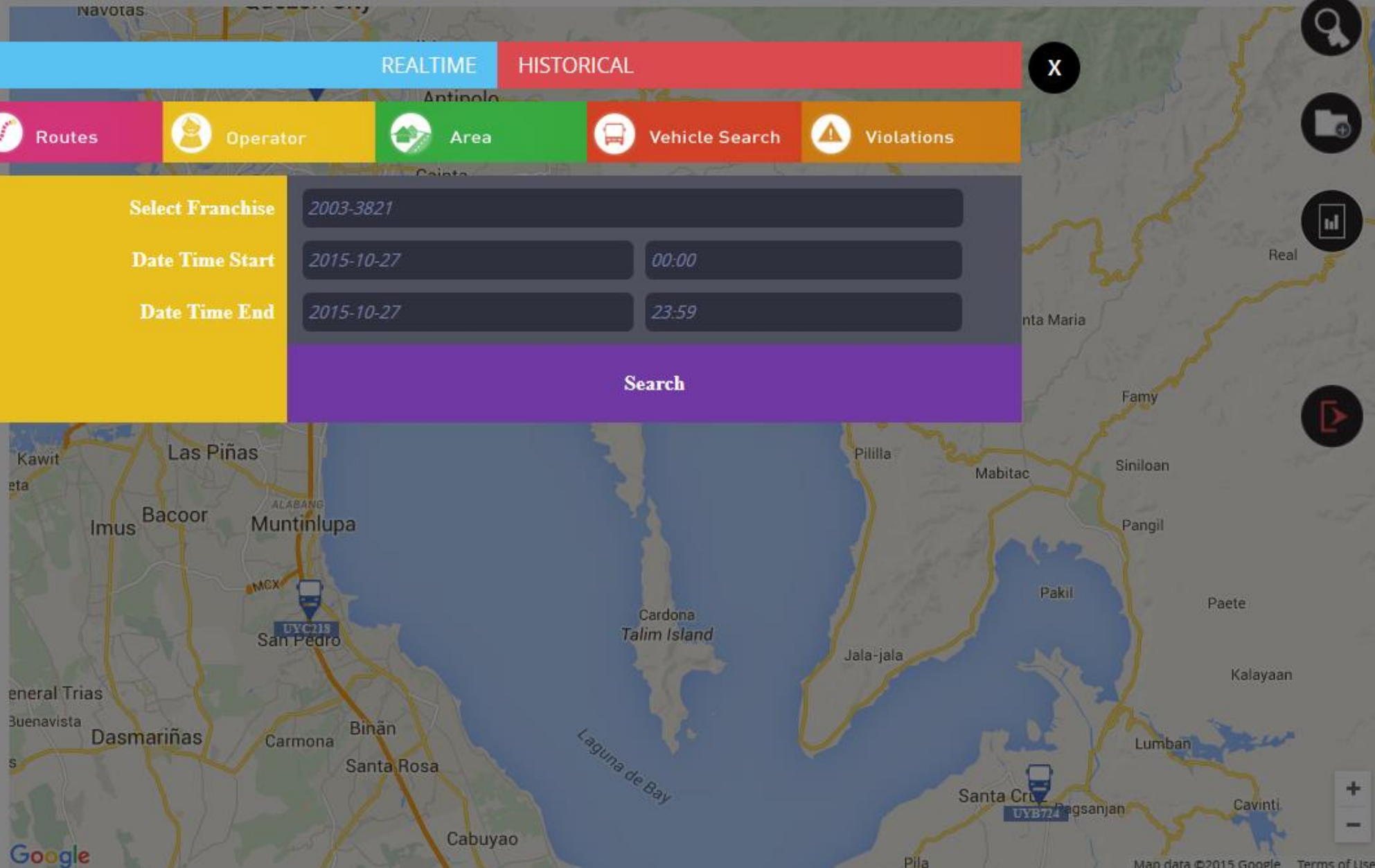
00:00

Date Time End

2015-10-27

23:59

Search



🔍

📍

📊

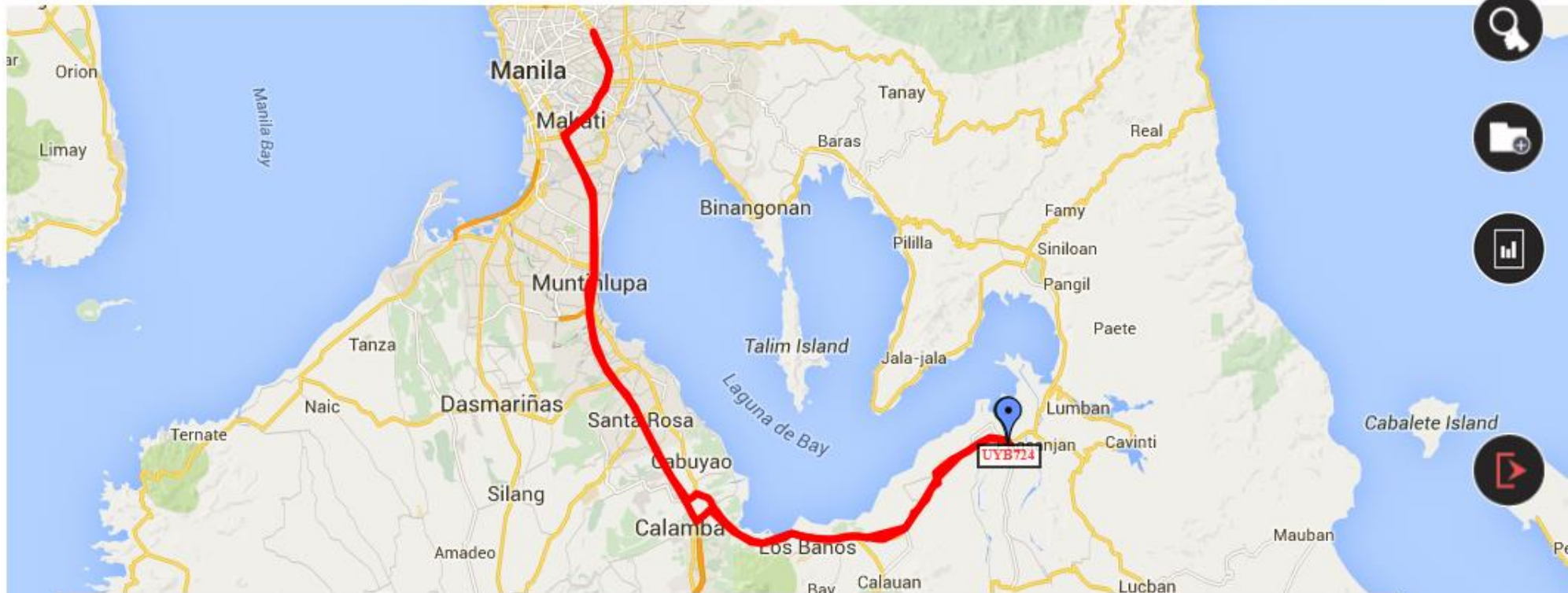
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Franchise: H M TRANSPORT INC
 Case Number: 2003-3821
 Route: Sta. Cruz (Laguna)-
 Cubao(QC)via Masapang Highway
 Average Speed: 13.89 kph
 Distance Travelled: 186.27 km
 Travel Time: 1435.30 mins.



2015-10-26 15:43:11	14.1733,121.1918	39 Nayong Maharlika, Sucol, Calamba, Laguna, Calabarzon	48
2015-10-26 15:45:21	14.1800,121.1803	550 A. Manaig, Sucol, Calamba, Laguna, Calabarzon	55
2015-10-26 15:36:35	14.1813,121.2290	National Hwy, Anos, Los Baños, Laguna, Calabarzon	42
2015-10-26 15:45:21	14.1800,121.1803	550 A. Manaig, Sucol, Calamba, Laguna, Calabarzon	55
2015-10-26 15:43:11	14.1733,121.1918	39 Nayong Maharlika, Sucol, Calamba, Laguna, Calabarzon	48



UYB413
 H M TRANSPORT INC
 2003-3821
 Sta. Cruz (Laguna)-Cubao(QC)via
 Masapang Highway

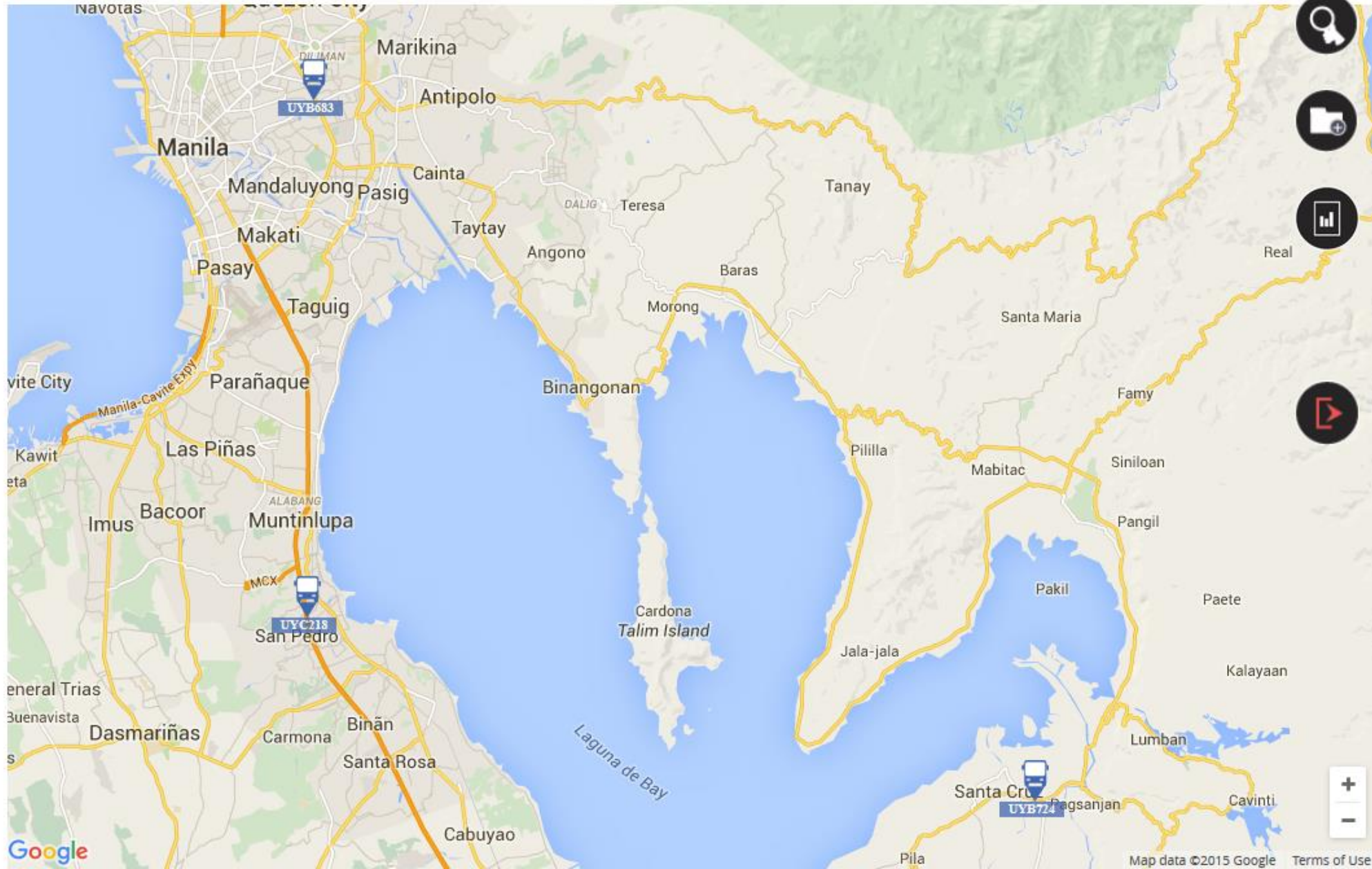
UYB663
 H M TRANSPORT INC
 2003-3821
 Sta. Cruz (Laguna)-Cubao(QC)via
 Masapang Highway

UYB673
 H M TRANSPORT INC
 2003-3821
 Sta. Cruz (Laguna)-Cubao(QC)via
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UYB683
 H M TRANSPORT INC
 2003-3821
 Sta. Cruz (Laguna)-Cubao(QC)via
 Masapang Highway

UYB724
 H M TRANSPORT INC
 2003-3821
 Sta. Cruz (Laguna)-Cubao(QC)via
 Masapang Highway

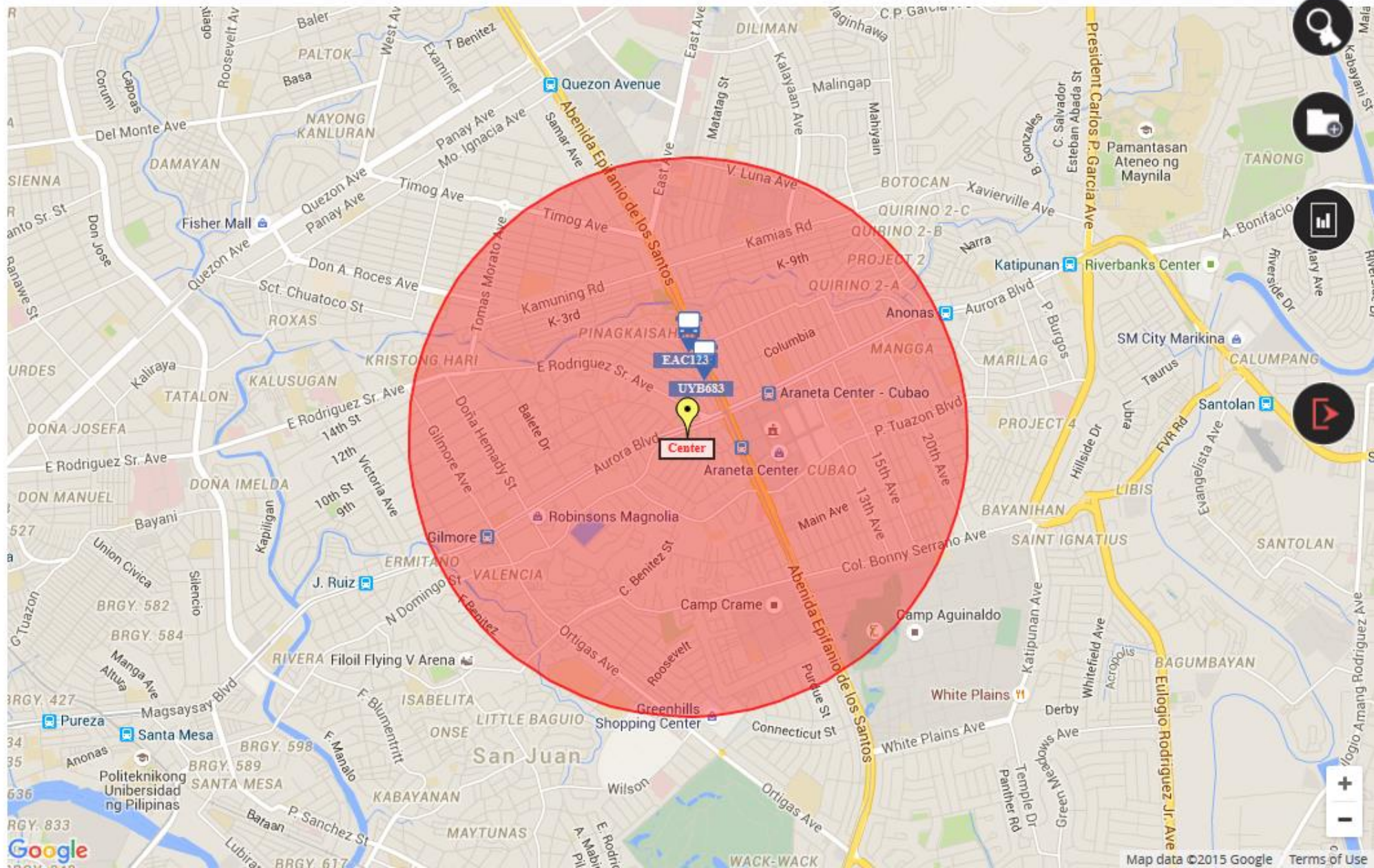
UYB834
 H M TRANSPORT INC
 2003-3821





EAC123
 Ortigas Bus Transit
 2014-EACOMM
 PUB

UYB683
 H M TRANSPORT INC
 2003-3821
 Sta. Cruz (Laguna)-Cubao(QC)via
 Masapang Highway



Date Start

Date End

Select Route

Select Operator

2003-3821

Select Vehicle



Offline Reports

October 25 (CSV)

Overspeeding Reports

October 20 (TEXT)

October 21 (TEXT)

October 22 (TEXT)

October 23 (TEXT)

October 24 (TEXT)

October 25 (TEXT)

Out of Line Reports

October 20 (TEXT)

October 21 (TEXT)

October 22 (TEXT)

October 23 (TEXT)

October 24 (TEXT)

October 25 (TEXT)

Daily Statistics Report

October 20 (CSV)

October 21 (CSV)

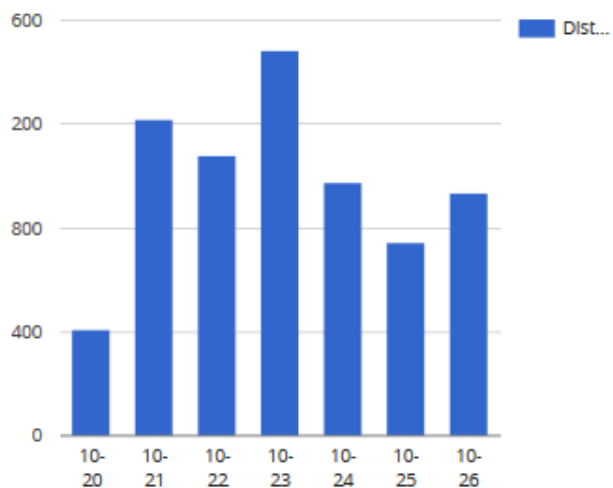
October 22 (CSV)

October 23 (CSV)

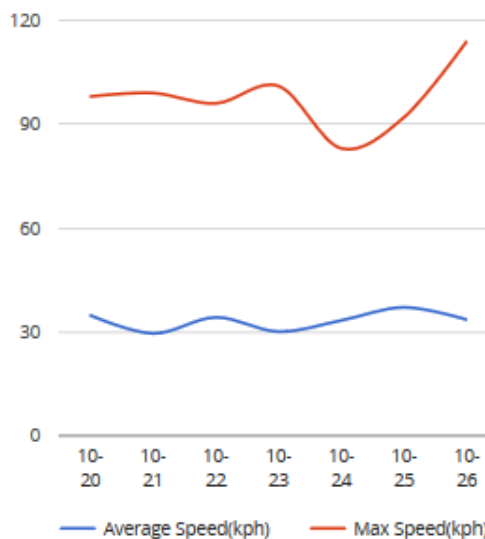
October 24 (CSV)

October 25 (CSV)

Distance Travelled

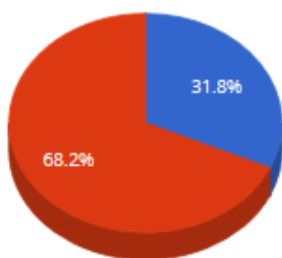


Average Speed



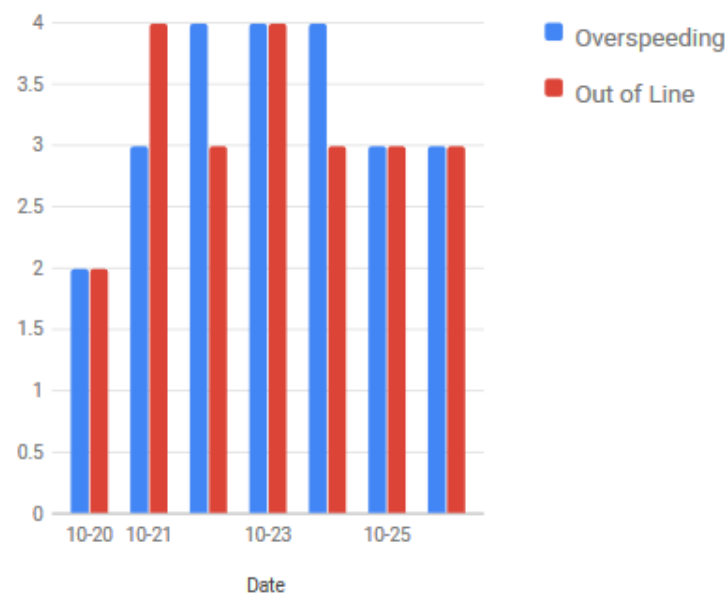
Travel / Idle Time

● Travel(hr)
● Idle(hr)



Travel : 186 hr 44 min 29 sec
Idle : 401 hr 18 min 24 sec

Violations





BUS MANAGEMENT INFORMATION SYSTEM OUT OF LINE REPORT
DOTC-LITFRB



Date: 10/26/2015

Date	Time	Original Route	Operator	Plate Number	Road	GeoLocation	E-mail Address
10/26/2015	06:20:35	Cubao - Balanga via EDSA	BATAAN TRANSIT CO INC	UVF976		14.623526 121.059644	karlo@eacomm.com
10/26/2015	14:23:30	Taytay-Quiapo via Ortigas Avenue Manila East Road	DE GUIA ENTERPRISES INC	UVR464		14.60122 120.00000	karlo@eacomm.com
10/26/2015	16:01:55	Sta. Cruz (Laguna)-Cubao(QC)via Masapang Highway	H M TRANSPORT INC	UYB724		14.2153 121.1479	karlo@eacomm.com
10/26/2015	11:08:21	PUB	Ortigas Bus Transit	EAC123		16.410259 120.598592	web@eacomm.com
10/26/2015	11:14:48	Sta. Cruz (Laguna)-Cubao(QC)via Masapang Highway	H M TRANSPORT INC	UYB683		14.2166 121.1398	karlo@eacomm.com
10/26/2015	14:29:45	PUB	H M TRANSPORT INC	UYC197		14.2658 121.4290	karlo@eacomm.com
10/26/2015	08:06:24	PUB	SIMUNDAC ALADIN A	UYB575		14.42056 121.04585	karlo@eacomm.com
10/26/2015	18:35:56	Sta. Cruz (Laguna)-Cubao(QC)via Masapang Highway	H M TRANSPORT INC	UYC218		14.2153 121.1385	karlo@eacomm.com
10/26/2015	13:45:04	Sta. Cruz (Laguna)-Alabng via SLEX Calamba LosBnos	WORTHY TRANSPORT INC	UYA563		14.2182 121.1415	karlo@eacomm.com

INFORMATION SYSTEM SPEEDING REPORT



Case Number	Operator	Plate Number	Average Speed	Start Road	End Road
2009-0585	LUCENA LINES INC	uyb710	64.77	Katipunan Avenue	Katipunan Avenue
2009-0585	LUCENA LINES INC	uyb710	65.19	Katipunan Avenue	Katipunan Avenue
2009-0585	LUCENA LINES INC	uvc850	75.18	Magsaysay Boulevard	Magsaysay Boulevard
2009-0585	LUCENA LINES INC	uvc850	94.34	Magsaysay Boulevard	Aurora Boulevard
2009-0585	LUCENA LINES INC	uvc850	94.23	Aurora Boulevard	Aurora Boulevard
2009-0585	LUCENA LINES INC	uvc850	130.69	Aurora Boulevard	Aurora Boulevard
2009-0585	LUCENA LINES INC	uvc850	69.18	Aurora Boulevard	Aurora Boulevard
2009-0585	LUCENA LINES INC	uvc850	101.62	Aurora Boulevard	Aurora Boulevard

10/10/2014	09:13:45	09:13:54		2009-0585	LUCENA LINES INC	uvc850	101.62	Aurora Boulevard	Aurora Boulevard
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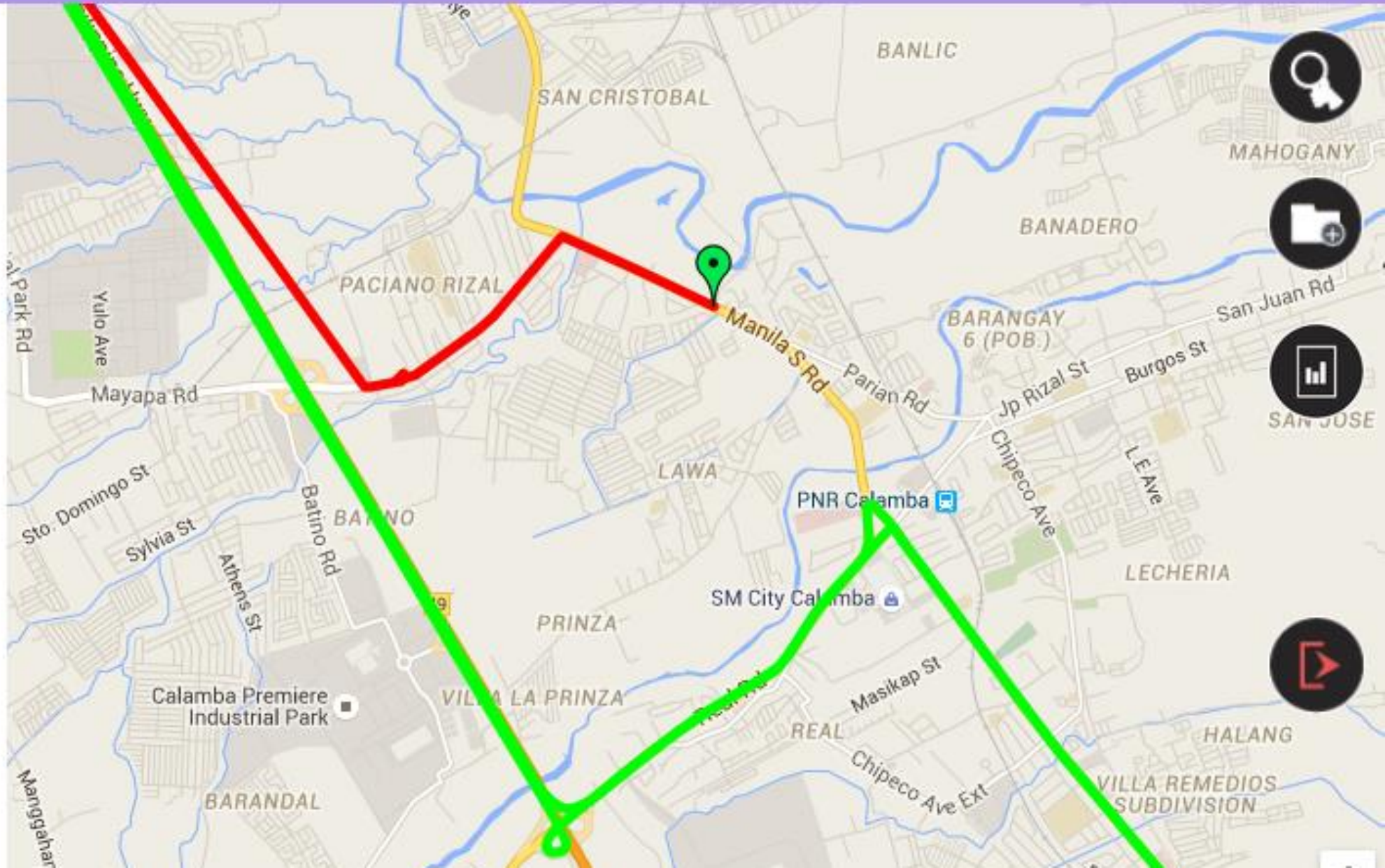
Out of Line

Franchise:
TRANSPORT INC

Case Number:

Route: Sta. Cruz

2015-10-26 16:01:55 to
2015-10-26 23:59:59





Overspeeding

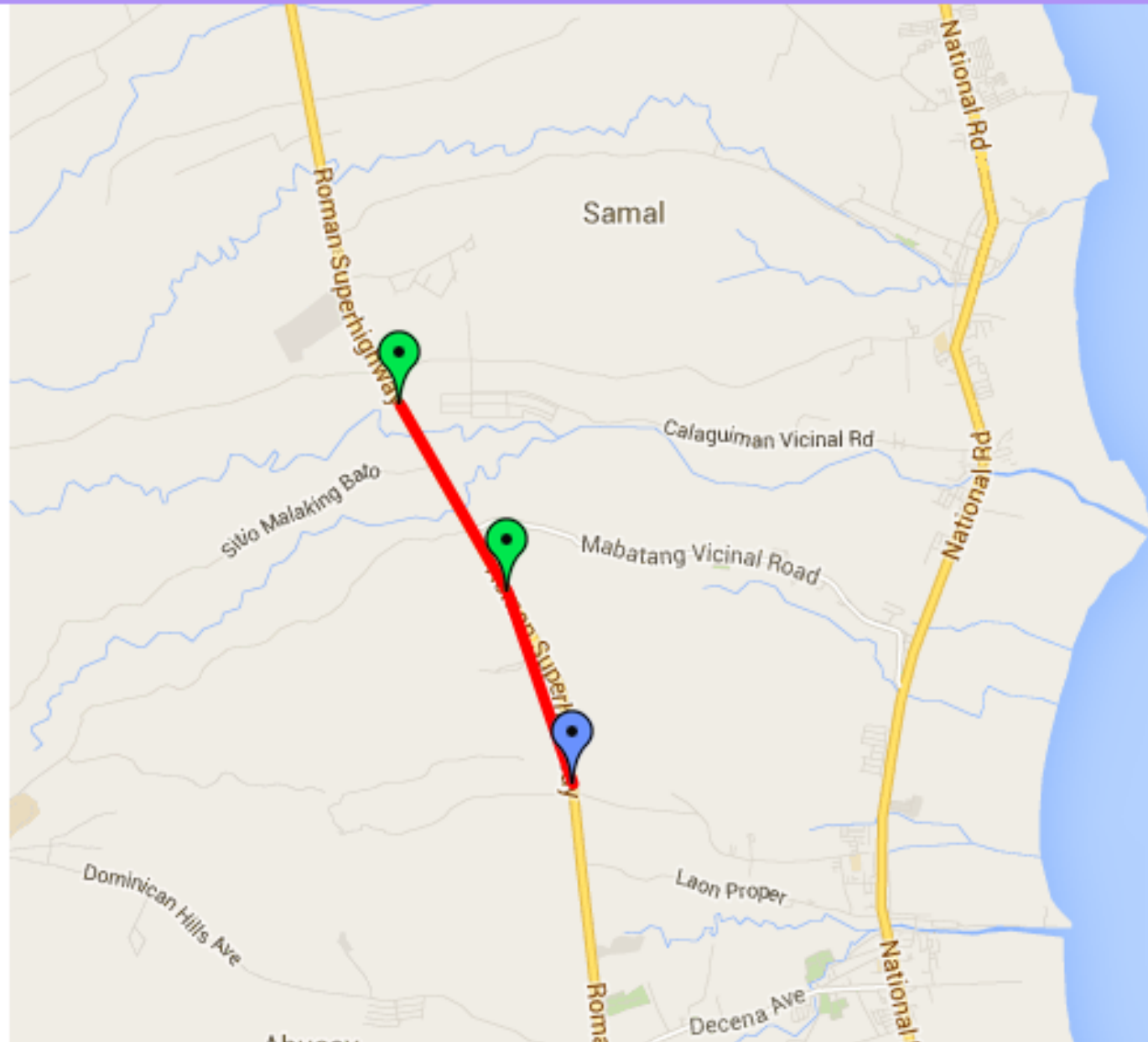
Franchise:
TRANSIT CO INC

Case Number:

Route: Cubao - Balanga

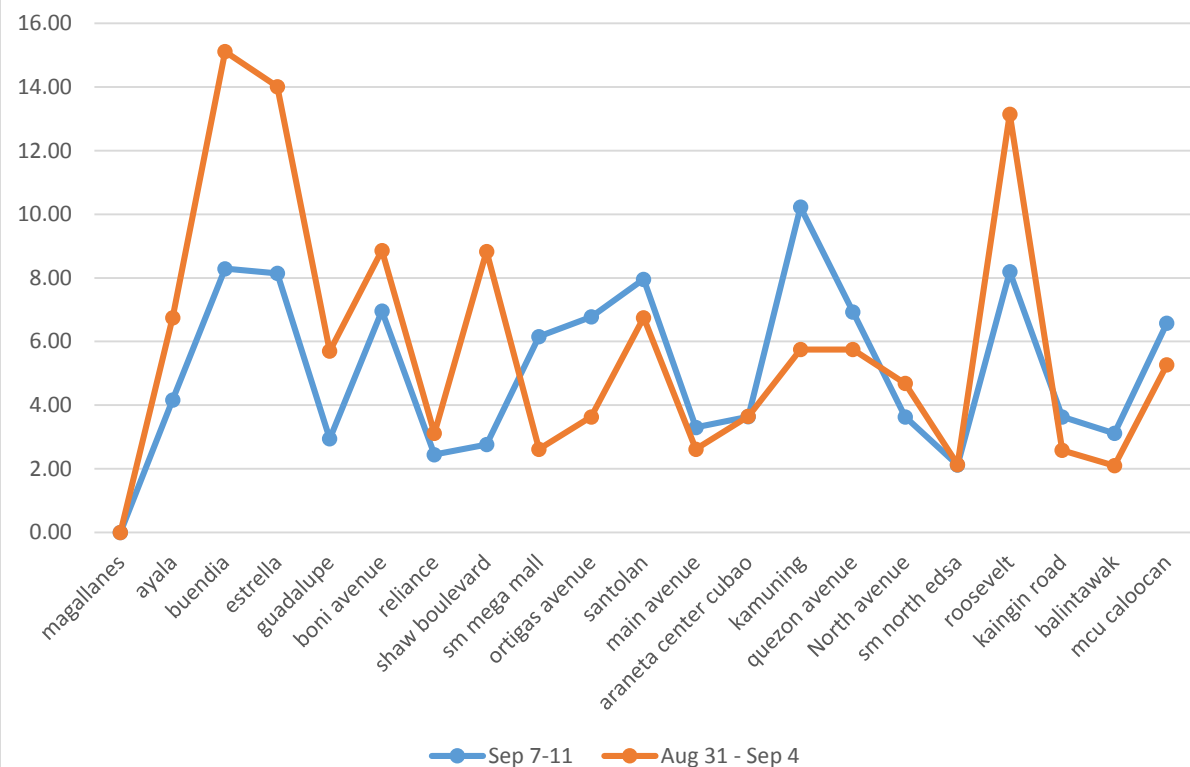
2015-10-20 22:30:49 to
2015-10-20 22:32:49

94.00 kph

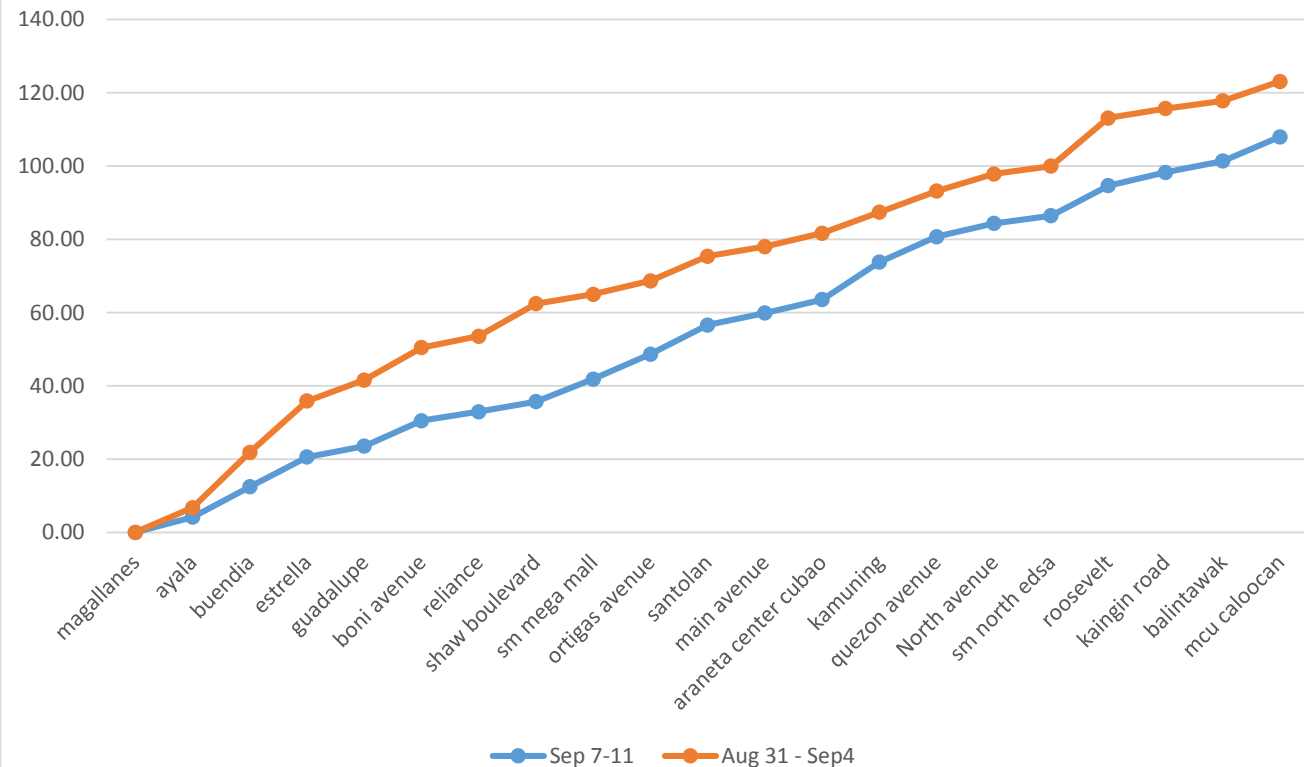


EDSA HPG Traffic Improvement based on GPS Data gathered by BMS

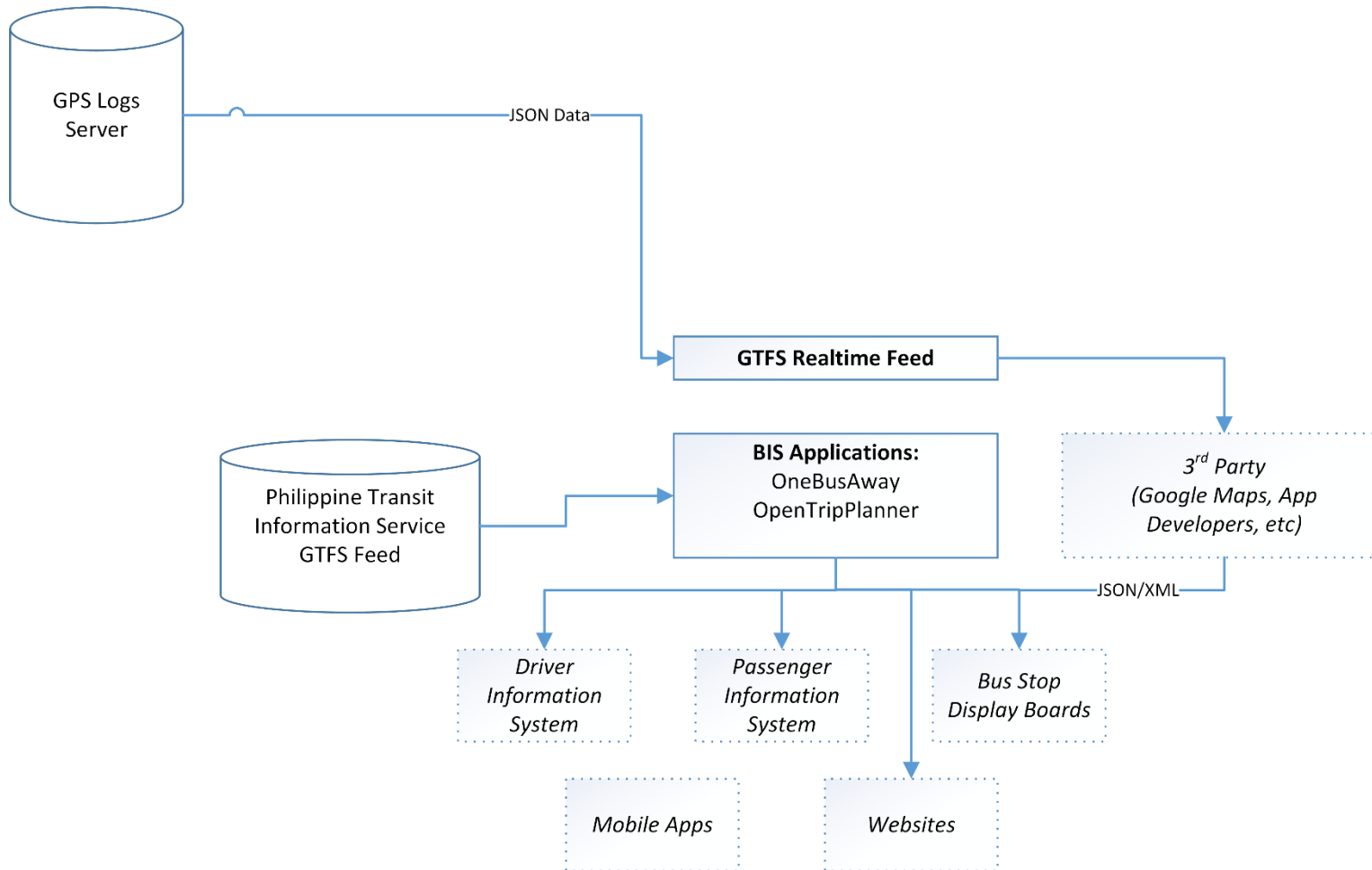
North Bound PM Rush Hour Travel Time Per Stop



North Bound PM Rush Hour Total Travel Time



Bus Information System



- The **Bus Information System** provides data relevant to passengers and the general public.
- Various API's will be provided to third parties interested in developing and integrating their applications with the system.



BIS Field Implementation

API Feeds and Webpages generated by OneBusAway and OpenTripPlanner can be utilized by third parties to deploy on-board and bus stop displays for the BIS.

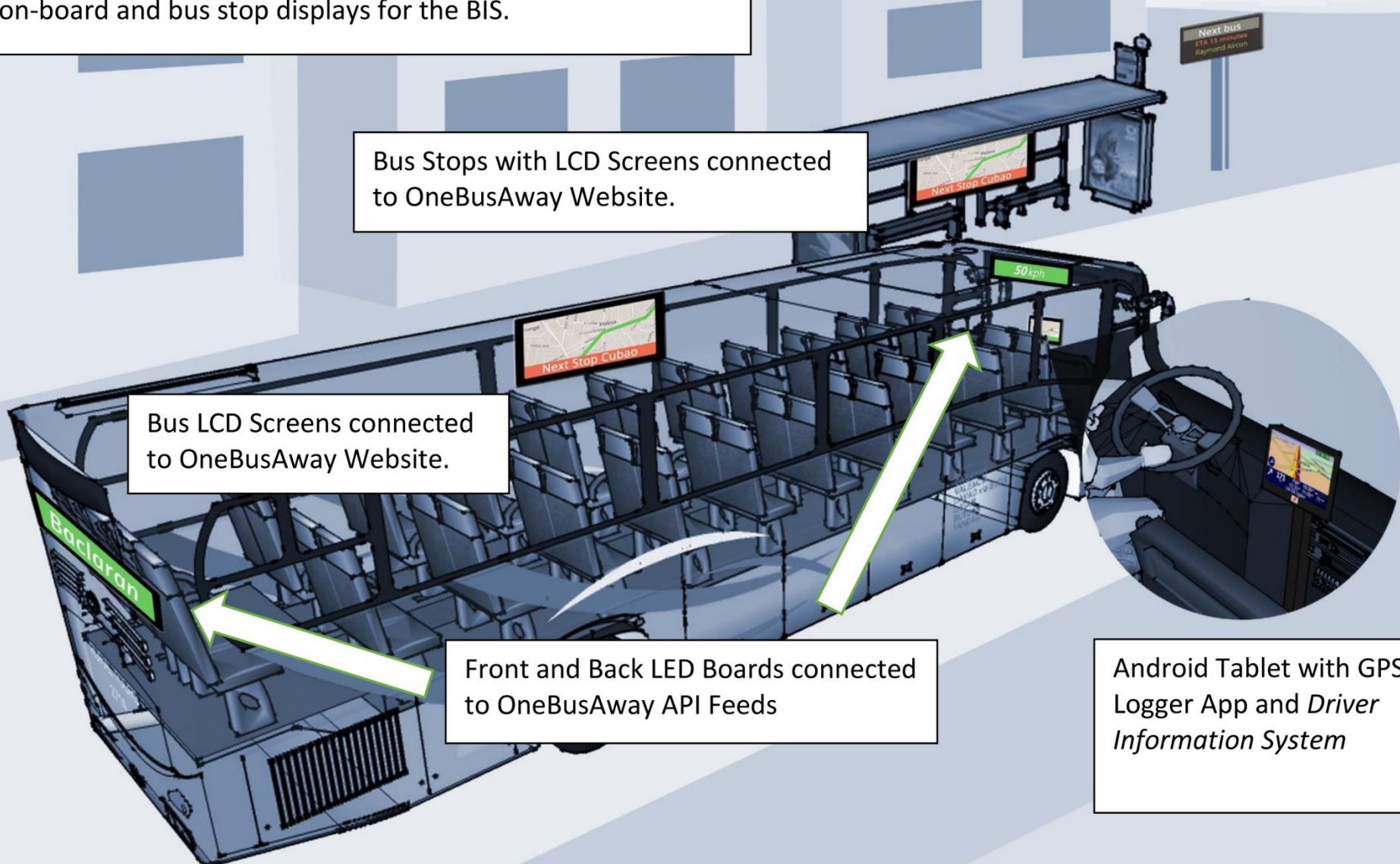
Bus Stops with LED Boards connected to OneBusAway API Feeds

Bus Stops with LCD Screens connected to OneBusAway Website.

Bus LCD Screens connected to OneBusAway Website.

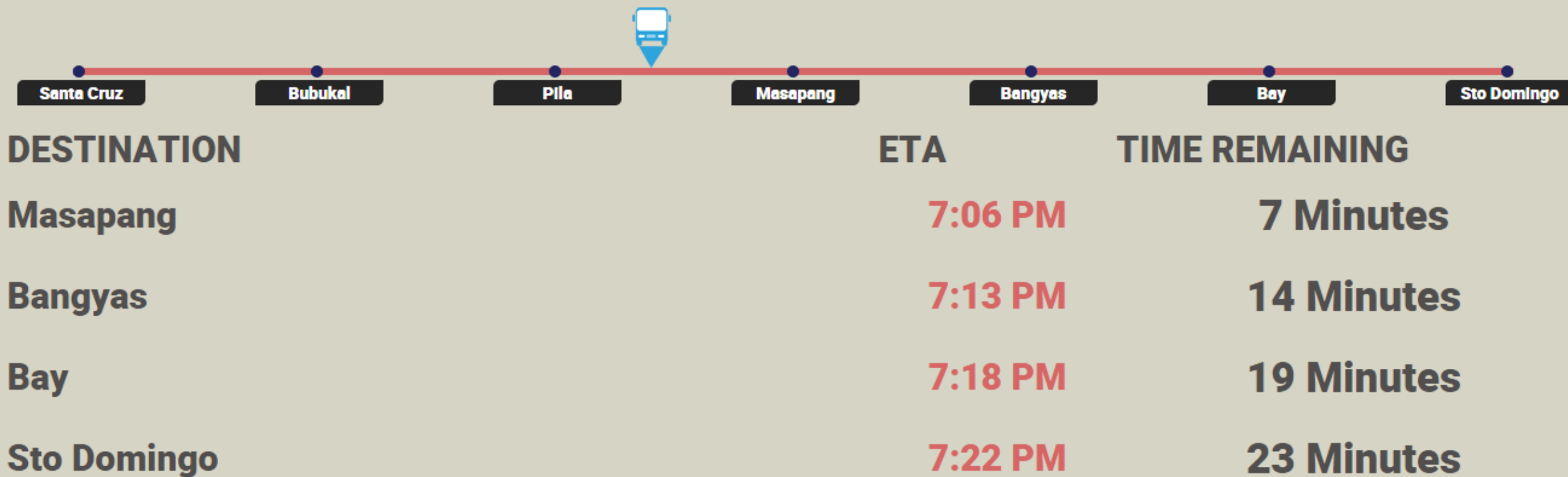
Front and Back LED Boards connected to OneBusAway API Feeds

Android Tablet with GPS Logger App and *Driver Information System*



Sta. Cruz (Laguna)-Cubao(QC)via Masapang Highway - Cubao

Cubao in 2 Hours and 18 Minutes



Last Update : 6:59 PM



ROUTE

**Sta. Cruz (Laguna)-Cubao(QC)via
Masapang Highway**

DESTINATIONETA TIME
REMAINING

Cubao

H M TRANSPORT INC - UYB683

**7:19
PM 6 Minutes**



📶 📶 📶 100% 🔋 7:02 PM

Bagong Kalsada St (north-bago...

Stop Name: Bagong Kalsada St - (north-bagong kalsada st)

Route: Sta. Cruz (Laguna)-Cubao(QC)via Masapang Highway
 Destination: Sta. Cruz

H M TRANSPORT INC UYB834
 ETA: 7:17 PM
 Time: 15 Mins

Route: Sta. Cruz (Laguna)-Alabng via SLEX Calamba LosBnos
 Destination: Sta Cruz

📶 📶 📶 100% 🔋 7:02 PM

Bus: H M TRANSPORT INC - UYB834

Route: Sta. Cruz (Laguna)-Cubao(QC)via Masapang Highway - Sta. Cruz

Sm City Calamba	ETA: 7:06 PM Time: 4 Mins
Pansol	ETA: 7:13 PM Time: 11 Mins
Bagong Kalsada St	ETA: 7:17 PM Time: 15 Mins
Lalakay	ETA: 7:21 PM Time: 19 Mins



3 Itineraries Returned

1. 11:09   12:16

Start: 11:09am, Jan 12th 2015

WALK 48 m to Bonifacio Ave, Cainta, Manila

BUS: LTRFB, Cainta - Quiapo via Ortigas Ave, Magsaysay Blvd

every 10 mins
 Board at Bonifacio Ave, Cainta, Manila
 Stop #LTRFB_3405 [\[Stop Viewer\]](#)
 Time in transit: 48 min [\[Trip Viewer\]](#)

late as 12:08pm
Alight at Santolan Rd, San Juan, Manila

WALK 622 m to Sen. Jose O. Vera

2. 11:09    12:17

3. 11:09     12:47

First Previous Next Last

Preferred Routes: (None) [Edit..](#)

Weight:

Banned Routes: (None) [Edit..](#)

Plan Trip

