



Feb 2016

SHIPMENT TRACKING VISIBILITY

PROJECT PROPOSAL



BACKGROUND

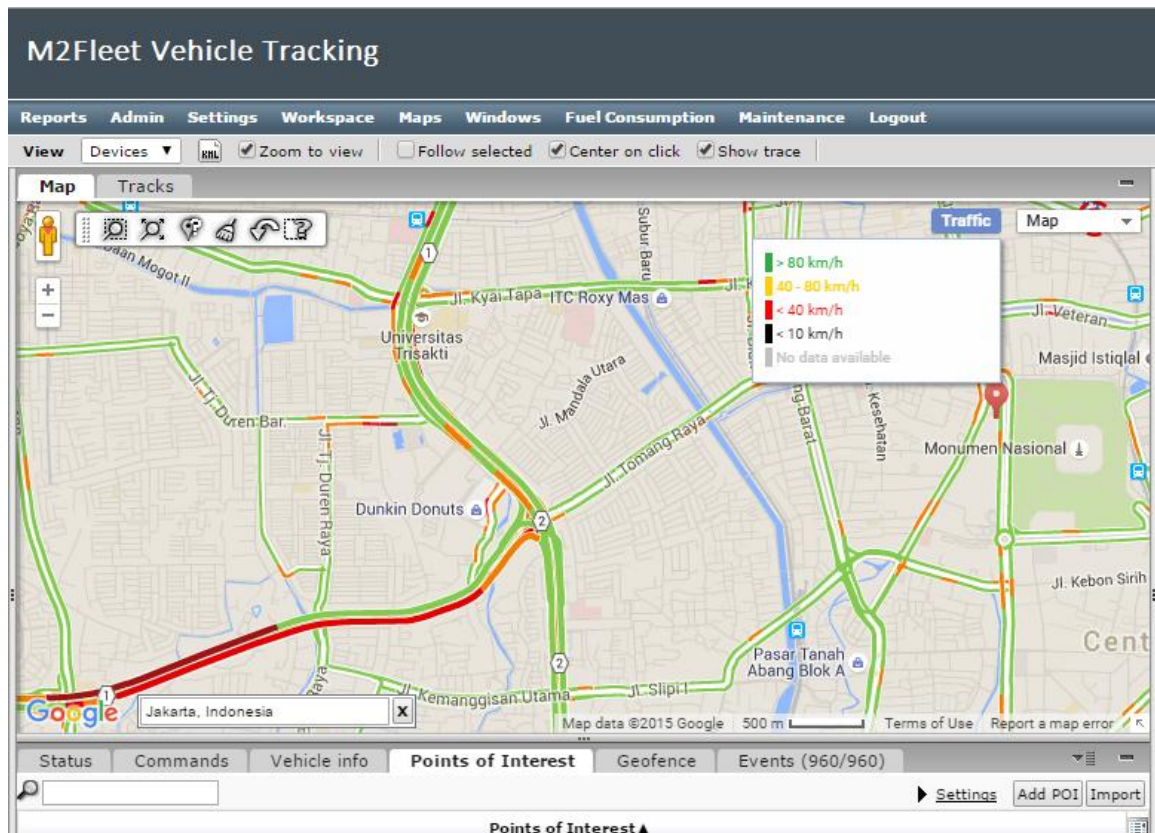


- Lack of actual lead time visibility:
 - from sourcing warehouse to Customer
 - Truck turn around time at the Warehouse & Customer
- Human dependency to key in check in check out time warehouse
- Lack of traceability:
 - From Transporter to Warehouse
 - From Warehouse to Customer
 - POD confirmation from Customer
- High Turnaround Time impacting to truck capacity and availability
- High demurrage & detention cost

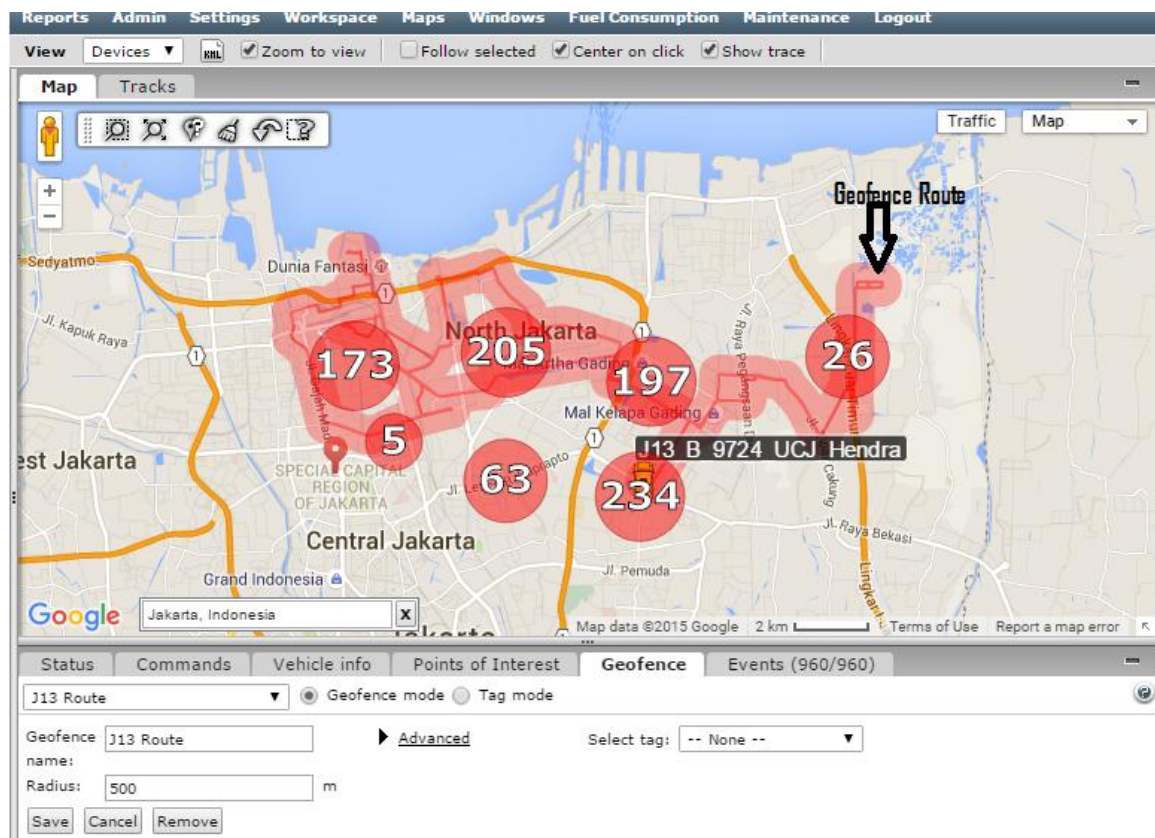


M2FLEET SOLUTIONS

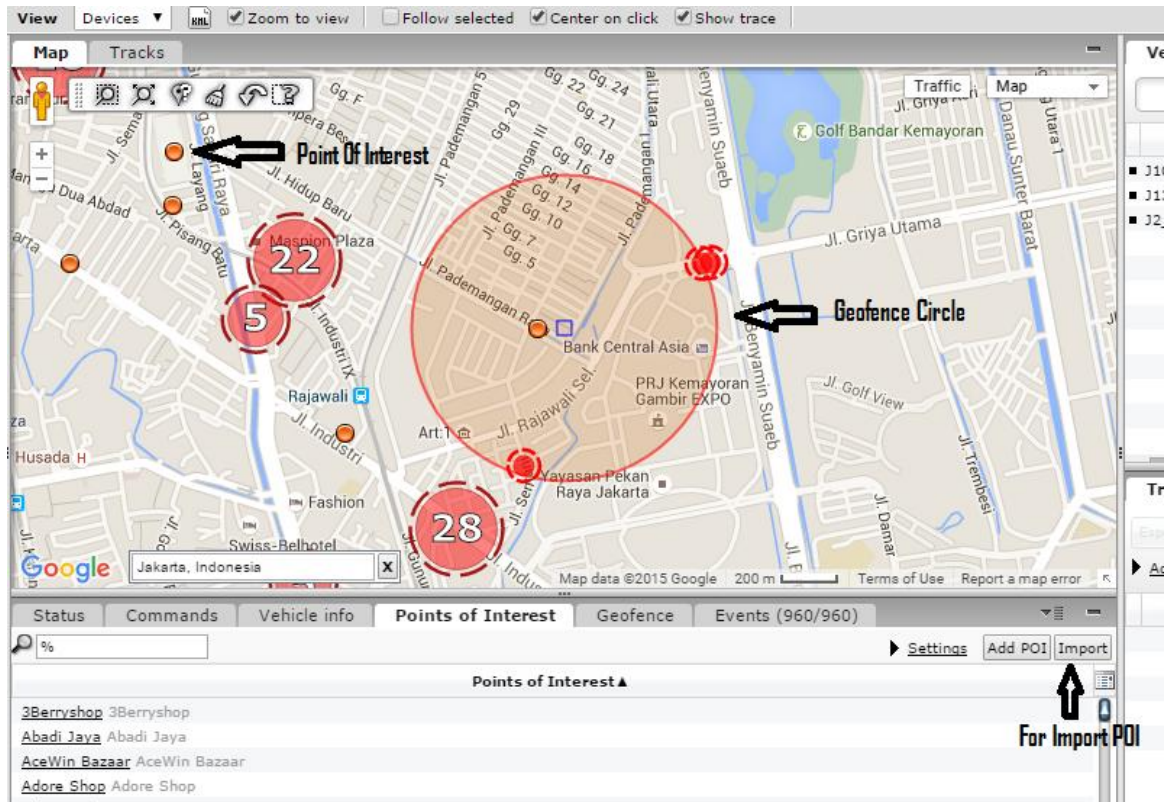
A. Google Maps and Traffic Condition



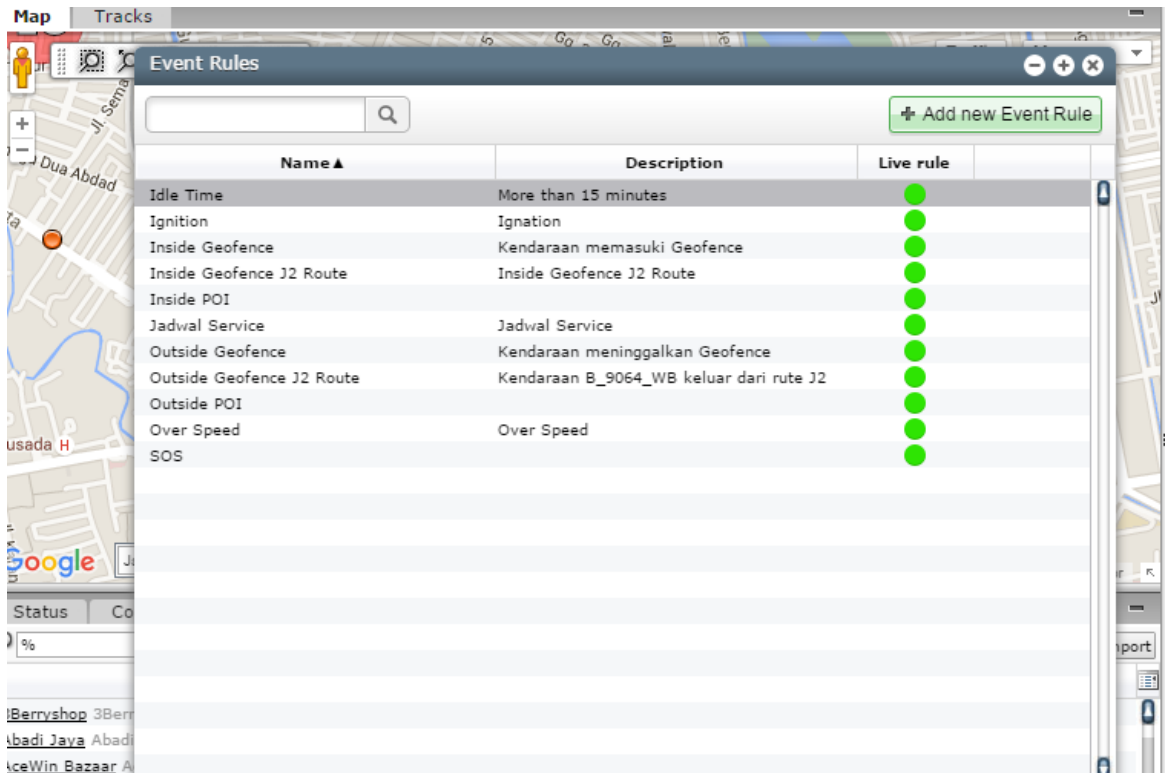
B. Route Geofence for route management



C. POI & Geofence (manual or import)



D. Vehicle Management using Event Rules , Tag, View



Other List possibility event rule:

Event Rules		
<input type="text"/> <input type="button" value="Q"/>		
Name ▲	Description	Live rule
5 km gap without position updates	5 km gap without position updates	●
Idle Time 15 menit	More than 15 minutes	●
Ignition	Ignation	●
Inside Geofence	Kendaraan memasuki Geofence	●
Inside Geofence J2 Route	Inside Geofence J2 Route	●
Inside POI		●
Jadwal Service	Jadwal Service	●
Kendaraan Bekerja diluar Jam Kerja	Kendaraan Bekerja diluar Jam Kerja	●
Kendaraan Berhenti diluar geo-fence lebih dari 15 menit	Kendaraan Berhenti diluar geo-fence lebih dari 15 menit	●
Outside Geofence	Kendaraan meninggalkan Geofence	●
Outside Geofence J2 Route	Kendaraan B_9064_WB keluar dari rute J2	●
Outside POI		●
Over Speed	Over Speed	●
SOS		●
vehicle off	vehicle off	●
vehicle working	ignition on vehicle moving	●

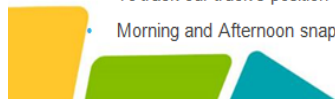
Event Rules		
<input type="text"/> <input type="button" value="Q"/>		
Name ▲	Description	Live rule
Driver Non Stop about 4 hours	Driver Non Stop about 4 hours	●
Idle Time	Idle Time	●
Ignation On	Ignation On	●
Inside Geofence	Inside Geofence	●
Inside Pool	Inside Pool	●
Kendaraan berhenti diluar geo-fence lebih dari 30 menit	Kendaraan berhenti diluar geo-fence lebih dari 30 menit	●
Memasuki POI	Memasuki POI	●
Outside Geofence	Outside Geofence	●
Outside Pool	Outside Pool	●
Over Speed	Over Speed	●
RPT_Seatbelt		●
RPT_Speeding		●
SOS Alert	SOS Alert	●
TakePicture	TakePicture	●
vehicle off	vehicle off	●
vehicle working	ignition on vehicle moving	●

Unilever Case and M2Fleet Implementation

REQUIREMENTS

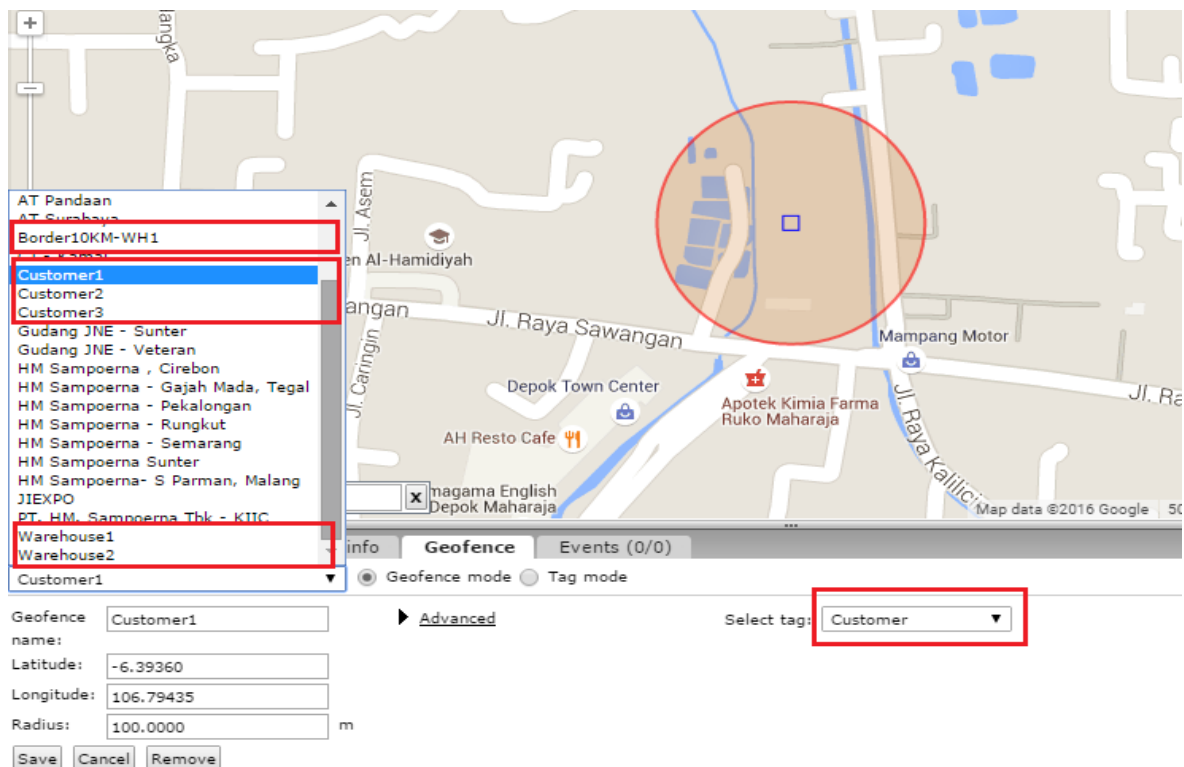


- Truck traceability heading to warehouse
 - Truck check in at security gate (Truck's driver registration)
 - Truck check out at security gate
- Check in and check out time at our Customer for the following activities:
 - The time when the Truck arrives at Customer
 - The time when the Truck starts to unload the products to Customer's warehouse
 - The time when the Truck completes the unloading
 - The time when the Truck leaves the Customers
- Check in and check out time at Port
- Truck's position for the following:
 - To track our Truck's position e.g. 10 km heading to our warehouse so that people at Warehouse can start assigning the gate, queue and preparing the products
 - To track our truck's position during the trip to/from Customer
 - Morning and Afternoon snap shot of position



M2Fleet Mapping

Defining Geo-Fence for Warehouse, Customer, Border10Km and Event rule



The screenshot shows the M2Fleet Mapping interface. A map displays a red circle geo-fence around a location. A list of locations is shown on the left, with 'Border10KM-WH1', 'Customer1', 'Customer2', and 'Customer3' highlighted. Below the list, the 'Geofence' tab is active, showing details for 'Customer1' with a radius of 100.0000 m. The 'Advanced' tab is also visible, showing the 'Select tags' dropdown set to 'Customer'.

Define Event Rule Base on Business Need, this event rule triggered when GPS meet the condition and add value of argument as reporting output.

Event Rules		
<input type="text"/>	<input type="button" value="Q"/>	<input type="button" value="+ Add"/>
Name ▲	Description	Live rule
Check in Warehouse	Check in Warehouse	<input checked="" type="checkbox"/>
Check Out Warehouse	Check Out Warehouse	<input checked="" type="checkbox"/>
Door Opened outside Customer / WH	Door Opened outside Customer / WH	<input checked="" type="checkbox"/>
inside geofence	inside geofence	<input checked="" type="checkbox"/>
Inside Geofence CJ	Inside Geofence CJ	<input checked="" type="checkbox"/>
Leave Customer	Leave Customer	<input checked="" type="checkbox"/>
RFID	RFID	<input checked="" type="checkbox"/>
TakePicture	TakePicture	<input checked="" type="checkbox"/>
Temperature Greater 16C	Temperature Greater 16C	<input checked="" type="checkbox"/>
Truck arrives at Customer	Truck arrives at Customer	<input checked="" type="checkbox"/>
Truck Load Complete	Truck Load Complete	<input checked="" type="checkbox"/>
Unload the products to Customer	Unload the products to Customer	<input checked="" type="checkbox"/>
Vehicle Near Warehouse 10 Km	Vehicle Near Warehouse 10 Km	<input checked="" type="checkbox"/>

Additional argument:

Event Rule

Warehouse

Inside

+ -

Show advanced options

An event can be triggered immediately or delayed by a specified time. A 15 minute delay would trigger the event only after the above expressions have been true for 15 minutes.

☒ Immediate event
 ☐ Delayed event

5. Notifications

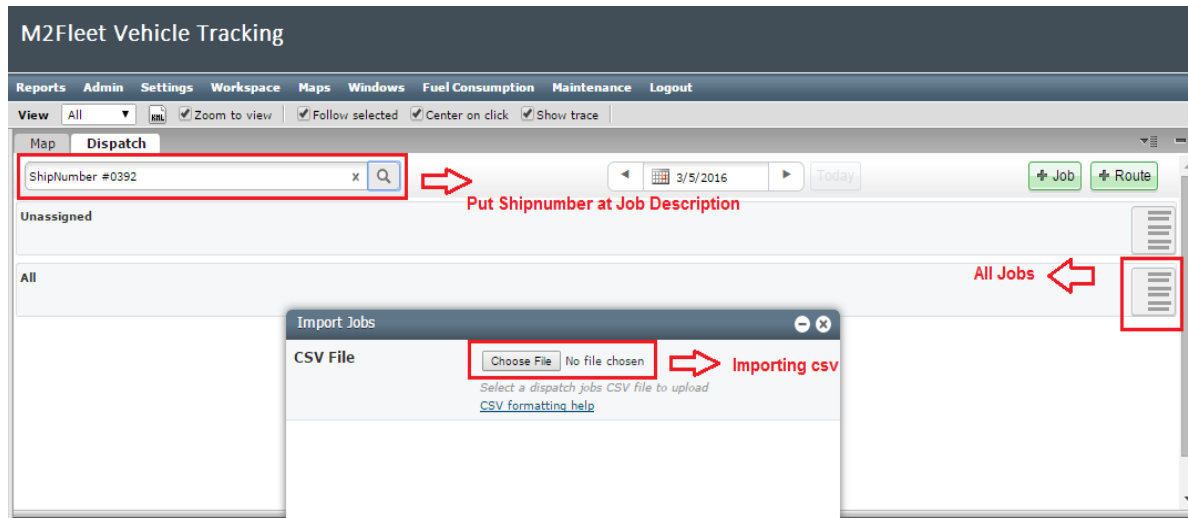
Notifications can both be shown in the application and sent over email and SMS to multiple recipients. Use the "+/-" buttons to add/remove email and SMS recipients.

Report Argument Name	Warehouse Name	Value	[GEOFENCE_NAME]	+ -
Show advanced options				
Report Argument Name	Vehicle	Value	[USER_NAME]	+ -
Show advanced options				
Report Argument Name	Driver Name	Value	[DRIVER_NAME]	+ -
Show advanced options				
Report Argument Name	Check in Time	Value	[EVENT_TIME]	+ -
Show advanced options				

Reporting format for event rule

M2Fleet Event Rule All						
Event totals per vehicle and day, by event rule						
Period Start:		23/11/2015				
Period End:		30/11/2015				
Total Events:		411				
Total Duration:		42:18:37:38				
Total Vehicles:		6				
Idle Time						
Total Events:		16				
Total Duration:		07:08:30				
Total Vehicles:		3				
Start Date	Stop Date	Duration	Vehicle	Total Distance (GPS)	Total Events	
24/11/2015	27/11/2015	06:24:20	B_9055_OF	1 km	14	
26/11/2015	26/11/2015	00:20:01	B_9826_MH	0,6 km	1	
26/11/2015	26/11/2015	00:24:09	KT_8361_KM	0,1 km	1	

Importing Job Dispatch using Excel /CSV



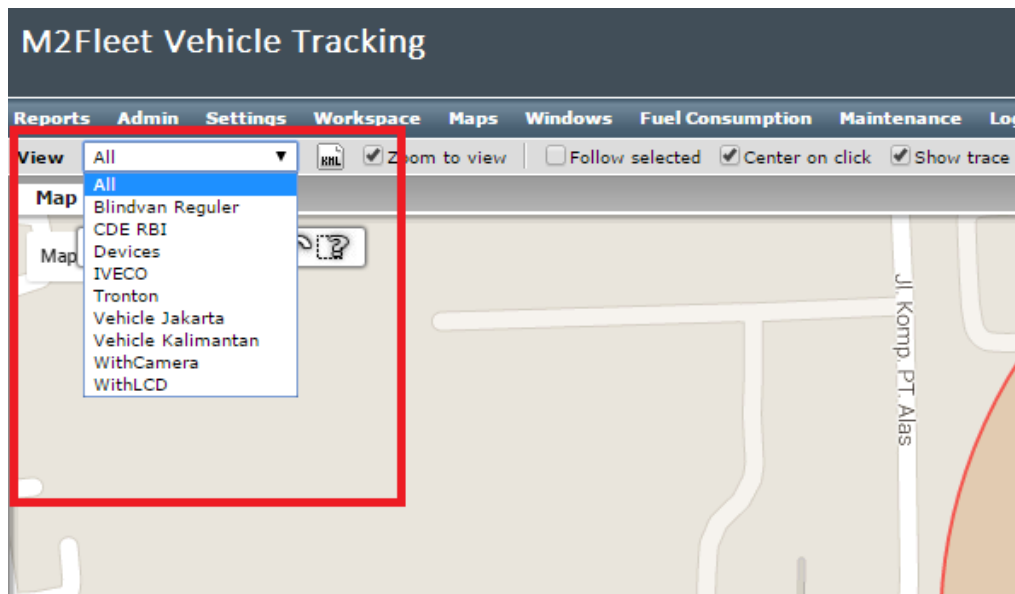
The screenshot shows the M2Fleet Vehicle Tracking interface. The top navigation bar includes Reports, Admin, Settings, Workspace, Maps, Windows, Fuel Consumption, Maintenance, and Logout. The main area is divided into Map and Dispatch tabs. The Dispatch tab is active, showing a search bar for ShipNumber #0392. A red box highlights the search bar, and a red arrow points to it with the text "Put Shipnumber at Job Description". Below the search bar, there is a list of jobs, with "All Jobs" highlighted by a red box and a red arrow. An "Import Jobs" dialog box is open, showing a "CSV File" section with a "Choose File" button. A red box highlights the "Choose File" button, and a red arrow points to it with the text "Importing csv".

Tag or Grouping for simple classify vehicle

Tags	
<input type="text"/>	
Name ▲	Description
MB1417	Type 1417/42 (Tandum Box)
MB2527	Type 2527/55 (Tandum Box)
MB2528L_TL	Type Axor 2528L (Tronton Panjang)
MB2528L_TS	Type Axor 2528L (Tronton Pendek)
MB2535LS	Type 2535 LS (Tracktor Head)
MB2633	Type Axor 2633 (Tracktor Head)
Operator	Operator
Pengawas	Pengawas
Show on map	Users visible in the vehicles panel
Untuk Tes	
Users	Users without device.

View Vehicle per Group

(can be implement per area, customer segment, or any grouping)



Roles

Roles	
<input type="text"/>	<input type="button" value="Batch Edit"/>
Name ▲	Description
New Operator	Privileges for New Operator
Power User	Privileges for Power User
_Administrator	Privileges for administrators
_Dispatch Worker	Defines the privileges of a Dispatch ...
_Driver	Privileges for drivers
_DriverJournal	
_Operator	Privileges for operators
_Unit	Privileges for units

Driver Identification

User Type Editor

▶ User Type (Device)

▶ Details

▼ Driver Info

Driver Info Description

Driver ID

IButton/RFID

Default vehicle

Vehicle

Garmin Password (Pin)

4 digit PIN

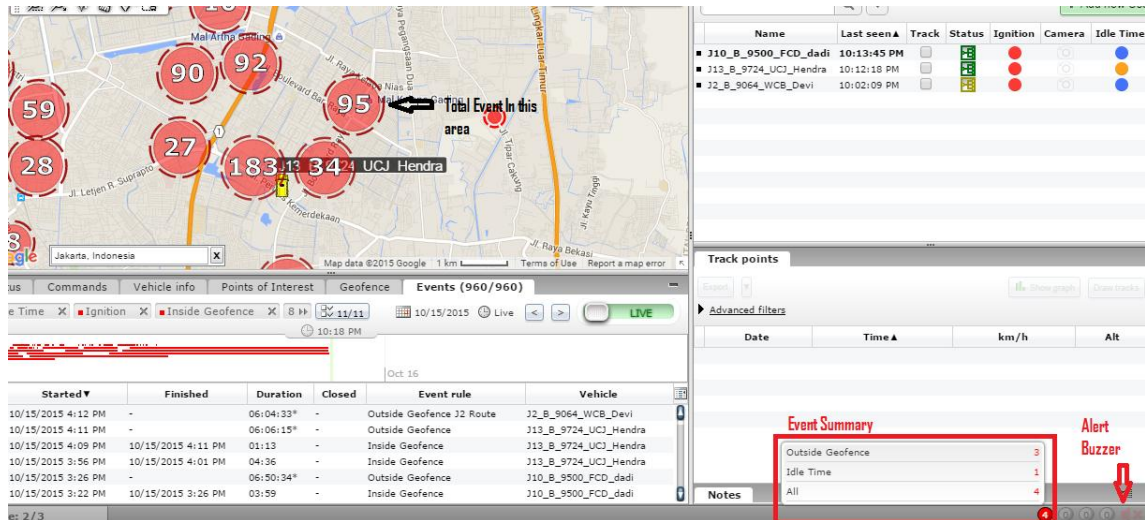
▶ Roles (_Unit)

▶ Tags (Show on map)

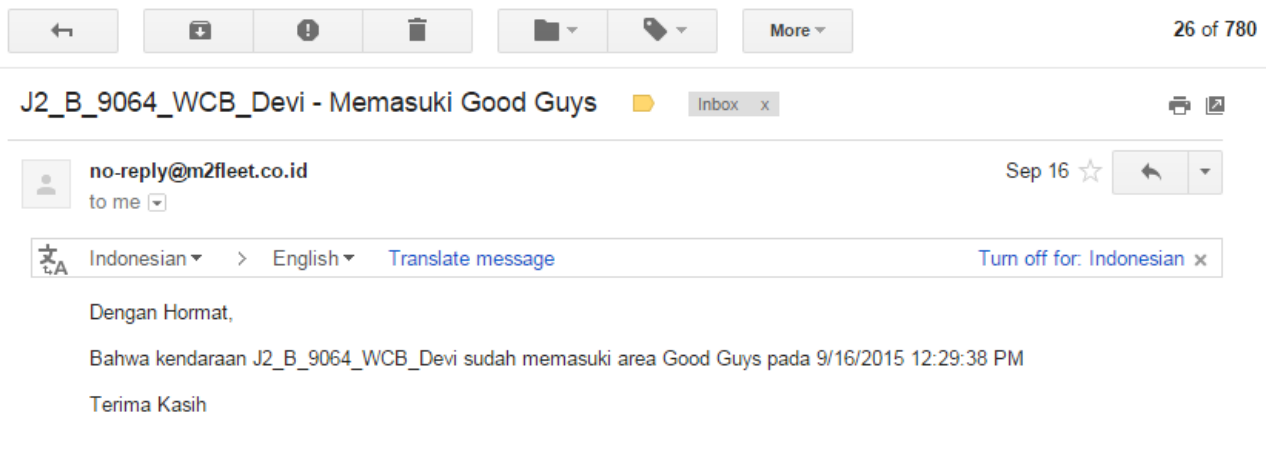
▶ Device 1

▶ Device 2

E. Event Notification / Alert



F. Email Notification



G. Reports

Report manager

Report ▲

Edit Delete

CKB 05 Fuel Refill Report

CKB 05 Time on Site (Vehicle - Site)

CKB 06 Sites Not Visited

CKB Completed Jobs (Vehicle)

CKB Driver Journal

CKB Driver Journal (Category)

CKB Event Report

CKB Event Rule (Total)

CKB Fuel Report (Daily)

CKB Maintenance Service History

CKB Time on Site (Site)

CKB Time on Site (Vehicle)

CKB Trip & Idle Detailed

CKB Trip & Idle Report

CKB Vehicle Journal

Sample report html, csv, or pdf

TS1004 Time on Site (Site)

Parameters

Period

Weekly

10/4/2015 - 10/11/2015

<-- -->

EventRule

Idle Time, Ignition, Inside

LocationType

POI

Tag

Show on map

Generate

HTML

Send e-mail

HTML

CSV

CSV ZIP

PDF-2

TS1004 Time on Site (Site)

Time and duration of visits, per site

Period Start: 10/4/2015
Period End: 10/11/2015

Total Vehicles: 3
Total Visits: 358
Total Sites: 34
Total Duration: 5.02:33:07

Vienn's Collection				
Category:	Merchan			
Total Vehicles:	1			
Total Visits:	11			
Total Duration:	01:35:39			
Arrival Date	Arrival Time	Departure Time	Duration	Vehicle
10/5/2015	1:33 PM	1:34 PM	00:00:31	J13_B_9724_UCJ_Hendra
10/5/2015	1:34 PM	1:34 PM	00:00:40	J13_B_9724_UCJ_Hendra
10/5/2015	1:34 PM	2:09 PM	00:34:45	J13 B 9724 UCJ Hendra

Fuel Report

CKB Fuel Report (Daily) - Fuel Consumption/Efficiency per day

Parameters

Period: Weekly 23/11/2015 - 30/11/2015 <-- -->

TagID: IVECO

Generate Print HTML Send e-mail

FU1004 Fuel Report (Daily)

Fuel consumption and efficiency, per vehicle, daily

Period Start: 2015-11-23T00:00:00

Period End: 2015-11-30T00:00:00

Total Fuel: 81,5 l

Vehicle: B_9055_0F

Total Fuel:							
Date	Total Distance (GPS)	Duration	Max Speed	Avg Speed	Fuel Consumption	Fuel Efficiency	Total Fuel
23/11/2015	0,0 km	03:36:16	0,0 km/h	0,0 km/h	0,0 l/100km		0,0 l
24/11/2015	118 km	23:58:36	70,0 km/h	17,3 km/h	17,84 l/100km	5,6 km/l	21,1 l
25/11/2015	496 km	20:13:08	76,0 km/h	27,5 km/h	12,168 l/100km	8,2 km/l	60,4 l
	614 km						81,5 l

Driver Journal Trip

CKB Driver Journal - CKB Driver Journal

Parameters

Period: Daily 25/11/2015 <-- -->

Category: Business

DriverID: DriverB_9826_MH

Generate Print HTML Send e-mail

DJ1001 Driver Journal, CKB Fleet-Monitoring System

Period: 25 Nopember 2015 - 25 Nopember 2015

Driver: DriverB_9826_MH

	Duration	Distance	Odometer Start	Odometer End
Business (3):	01:08:38	22,4 km		
Private (0):	00:00:00	0,0 km		
Other (0):	00:00:00	0,0 km		
Total (3):	01:08:38	22,4 km		

Vehicle: B_9826_MH

Start	End	Duration	Distance	Odo Start	Odo End	Category
25/11/2015 6:27	25/11/2015 6:39	00:12:00	2,6 km			Business
From: Jl. Sukapura Timur V, Cilincing, Kota Jkt Utara, Daerah Khusus Ibukota Jakarta 14140, Indonesia						
To: Jl. H. kari No.65, Cilincing, Kota Jkt Utara, Daerah Khusus Ibukota Jakarta 14140, Indonesia						
Note:						
25/11/2015 6:43	25/11/2015 7:37	00:54:03	19,4 km			Business
From: Jl. H. kari No.65, Cilincing, Kota Jkt Utara, Daerah Khusus Ibukota Jakarta 14140, Indonesia						
To: Jl. Halim Perdanakusuma, Makasar, Kota Jakarta Timur, Daerah Khusus Ibukota Jakarta 13610, Indonesia						
Note:						

Workspace-Total Solution Screen

M2Fleet Vehicle Tracking

Reports Admin Settings Workspace Maps Windows Fuel Consumption Maintenance Logout

View Devices ☒ Zoom to view ☐ Follow ☐ Show trace

Map

Terminal
Command Control
Notes
Points of Interest
Driver Journal
Dispatch
User Actions
Online Status
Map coords
Tracking Schedules
Publish
Area Search

lazada@Lazada Express - 10:55 PM Asia/Jakarta (GMT +07:00)

Vehicles

Name	Last seen	Track	Status	Ignition	Camera
J13_B_9724_UCJ_Hendra	10:52:23 PM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J2_B_9064_WCB_Devi	10:51:54 PM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J10_B_9500_FCD_dadi	10:43:39 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Tracks

Start: 10/1/2015 7:38 PM Stop: 10/16/2015 7:38 PM Draw tracks Replay

Start	Stop	Dist	Select	Del
10/15/2015 12:03 AM	10:43 PM	80 km	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10/14/2015 12:08 AM	11:53 PM	1 km	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10/13/2015 12:00 AM	11:58 PM	79 km	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Track points

Export Show graph Draw tracks

Advanced filters

Date	Time	km/h	Alt
10/15/2015	12:03:12 AM	0.0	120.0
10/15/2015	12:13:10 AM	0.0	109.0
10/15/2015	12:23:08 AM	0.0	211.0
10/15/2015	12:33:05 AM	0.0	156.0
10/15/2015	12:43:03 AM	0.0	117.0
10/15/2015	12:53:01 AM	0.0	104.0

Notes

Latest messages: J10_B_9500_FCD_dadi

Name	Value	Unit	Time
Speed	0.00	km/h	10/15/2015 10:53:37 PM
Ignition	OFF		10/15/2015 10:53:37 PM
MCC	510.00		10/15/2015 10:53:37 PM
LAC	1507.00		10/15/2015 10:53:37 PM

enver.m2fleet.co.id/tracking/VehicleTracker/VehicleTracker.aspx?appid=19#

Extend Screen with Multi Monitoring

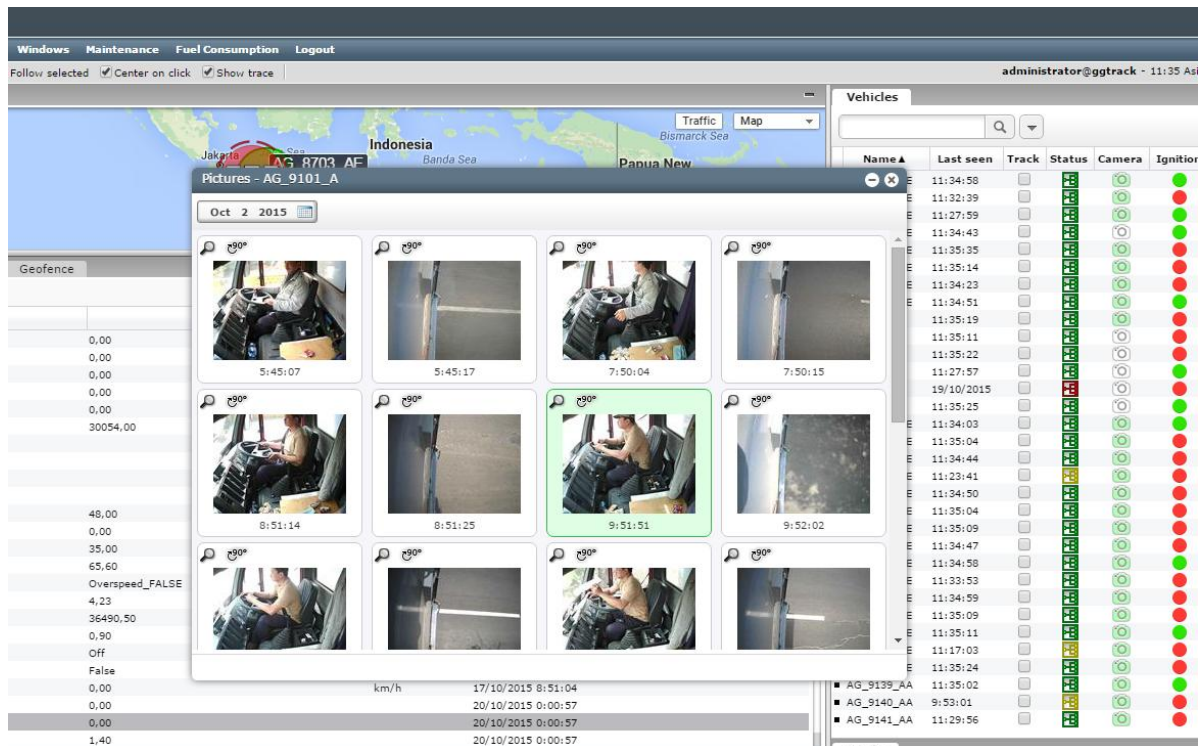
Follow: J10_B_9500_FCD_dadi

Follow: J2_B_9064_WCB_Devi

Follow: J13_B_9724_UCJ_Hendra

Follow: J10_B_9500_FCD_dadi

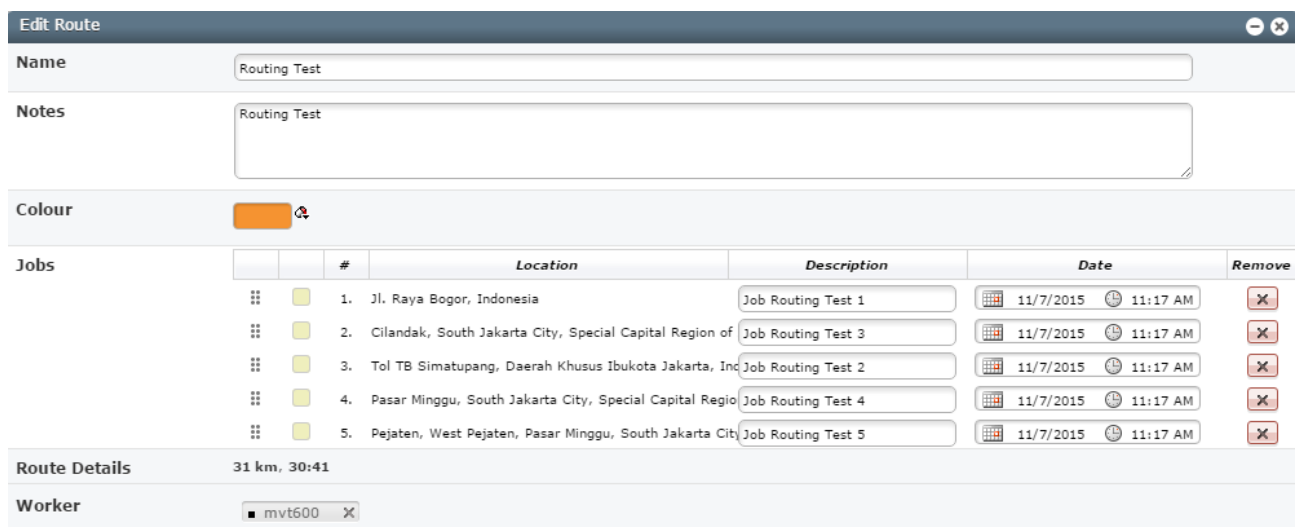
Camera Integration



Name	Last seen	Track	Status	Camera	Ignition
AG_8703_AF	11:34:58				
AG_9101_A	11:32:39				
	11:27:59				
	11:34:43				
	11:35:35				
	11:35:14				
	11:34:23				
	11:34:51				
	11:35:19				
	11:35:11				
	11:35:22				
	11:27:57				
	19/10/2015				
	11:35:25				
	11:34:03				
	11:35:04				
	11:34:44				
	11:23:41				
	11:34:50				
	11:35:04				
	11:35:09				
	11:34:47				
	11:34:58				
	11:33:53				
	11:34:59				
	11:35:09				
	11:35:11				
	11:17:03				
	11:35:24				
	11:35:02				
	9:53:01				
	11:29:56				

Routing System

Route optimisation to the Job Dispatch. This feature allows you to see the estimated distance and journey time of your planned routes.

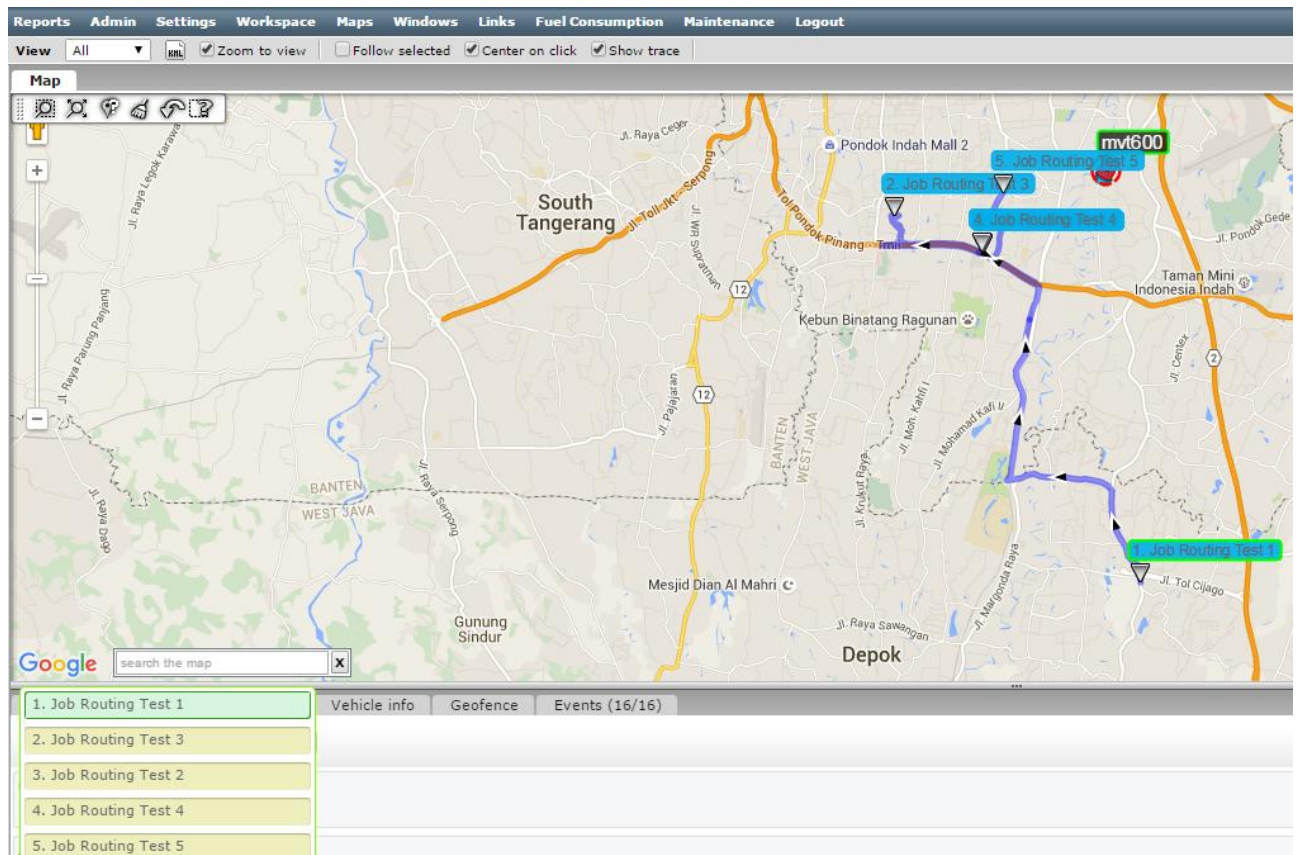


#	Location	Description	Date	Time	Remove
1.	Jl. Raya Bogor, Indonesia	Job Routing Test 1	11/7/2015	11:17 AM	
2.	Cilandak, South Jakarta City, Special Capital Region of	Job Routing Test 3	11/7/2015	11:17 AM	
3.	Tol TB Simatupang, Daerah Khusus Ibukota Jakarta, Inc	Job Routing Test 2	11/7/2015	11:17 AM	
4.	Pasar Minggu, South Jakarta City, Special Capital Regio	Job Routing Test 4	11/7/2015	11:17 AM	
5.	Pejaten, West Pejaten, Pasar Minggu, South Jakarta City	Job Routing Test 5	11/7/2015	11:17 AM	

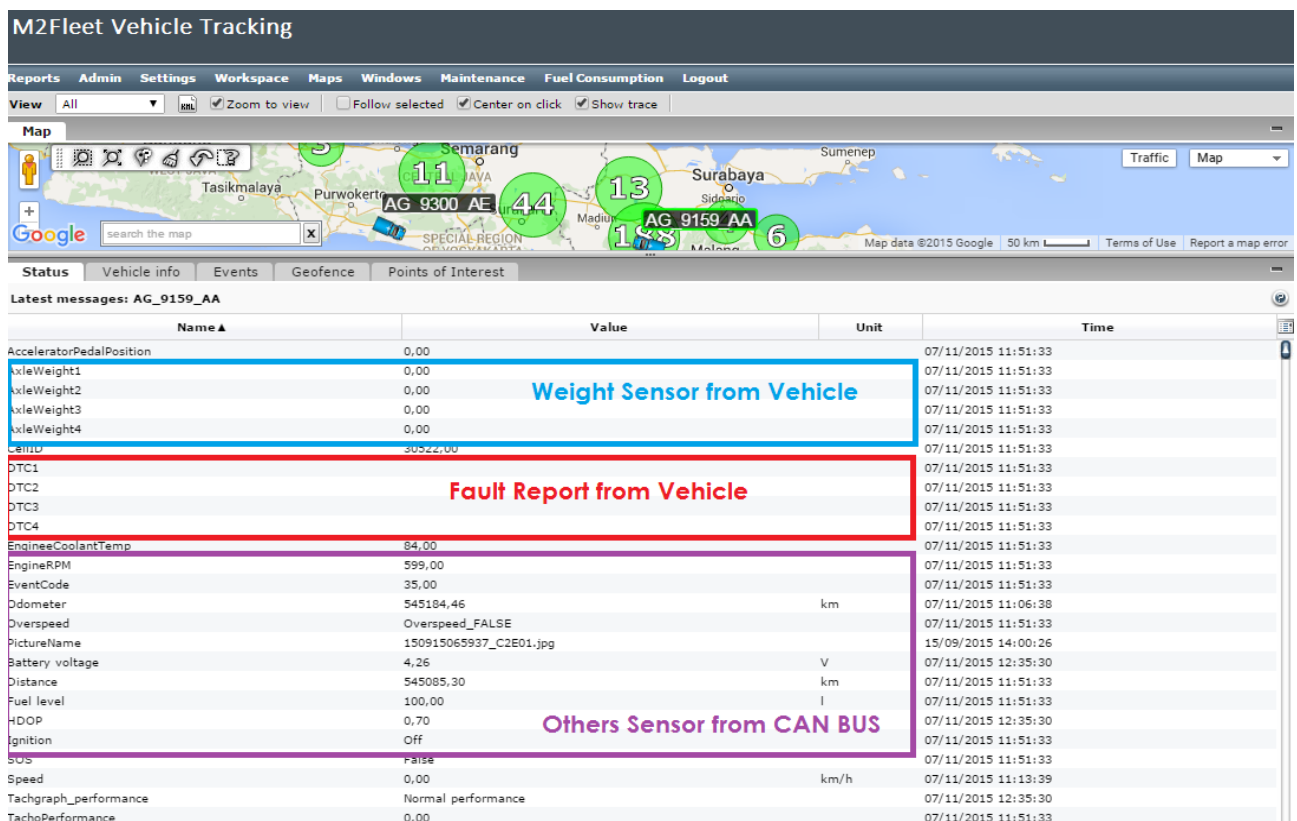
Route Details: 31 km, 30:41

Worker: mvt600

Optimize Routes



Fault Reporting System → This feature to get real time from vehicle fault



Additional Trigger / Event could be define using logic and expression

- Such want to know vehicle stop outside geo-fence more than 30 minutes
- Taking Picture with logic condition (Door Sensor, Time period , etc)
- Customize with Solenoid Lock and Relay
- Stable Solution

DEVICES



LED Display



Camera



LCD Display



Handset



Temperature Sensor



Fuel Sensor



Microphone



RFID Reader



Relay



Speaker



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021-80879546