# KLOUD-SHUTTLE

Passenger Transport Management Platform

KLOUDiP

## Tracking system features

Combined functionality of the core KLOUDSKY modules in a handy interface:

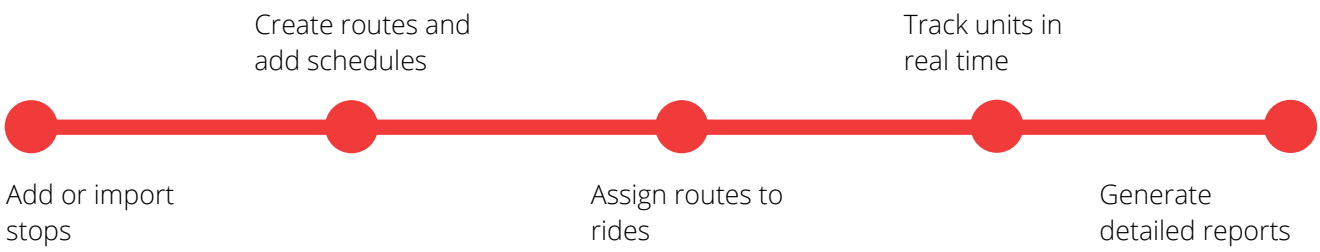
- Geofences as waypoints
- Geofence visiting control
- Flexible checkpoint order configuration
- Schedule management
- Unit bindings and distribution
- Automatic or manual ride creation
- Address search
- Event-based notifications
- Detailed reporting
- Real-time tracking on the map with scaling features and handy navigation

## Specialized tools

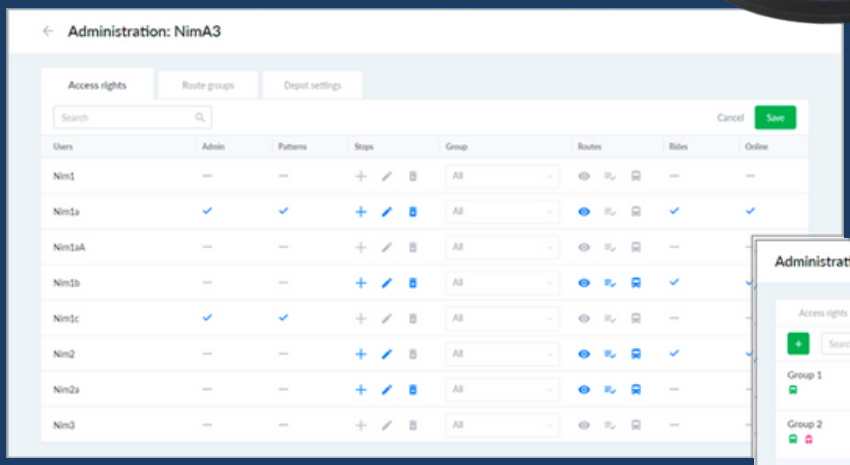
Features developed with due consideration to dispatcher job specifics:

- Handy timeline for online tracking
- Business-specific reports
- Waypoints of any shape to improve tracking on the most complicated junctions
- Search and filtration by vehicle types
- Operation patterns to create individual working schedules for each route
- Color identification of late/early arrivals
- Reports in terms of routes and units
- Special ACL system
- Detailed description of routes and stops to identify the ones of various directions

## How it works

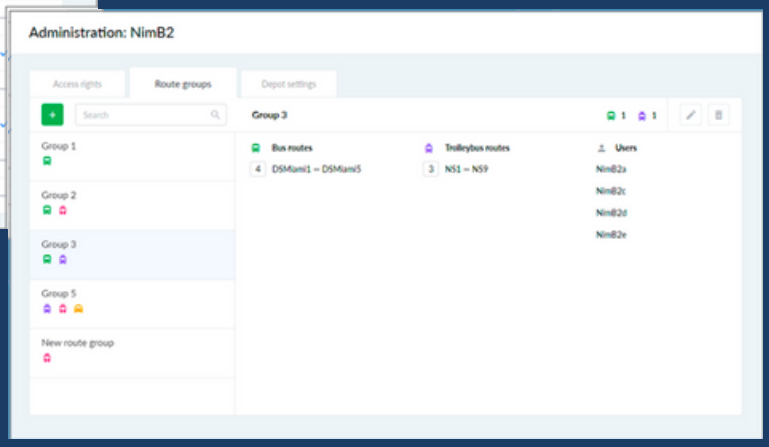


# Take a closer look




## Manage User ACL

Grant users access rights to manage depots, stops, routes, rides, and online tracking.




## Create and edit route groups

Restrict the list of routes available to users to advance organizational management.

## Create or import stops

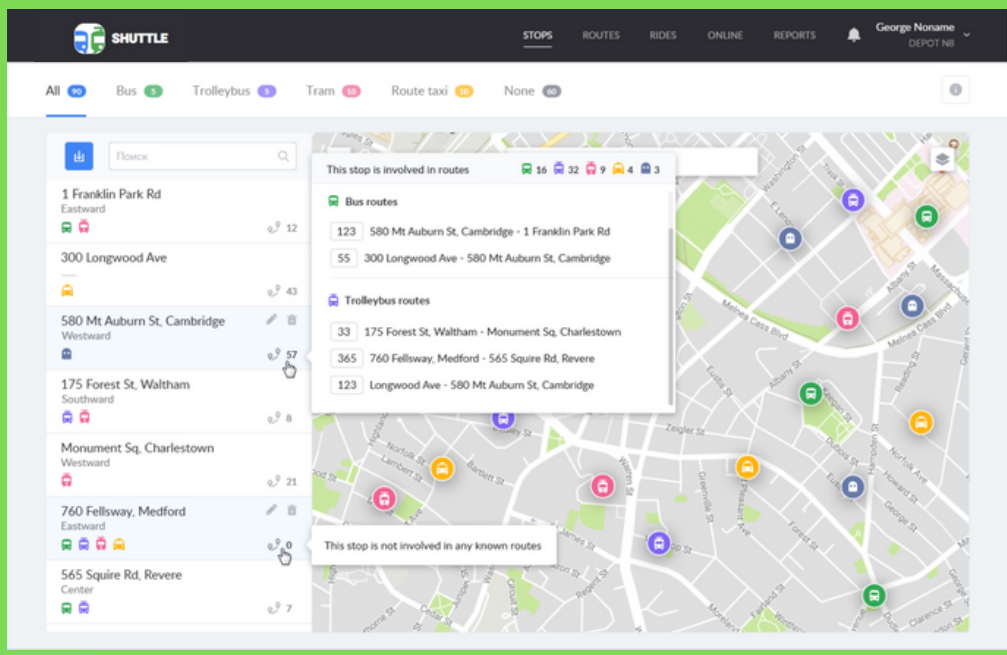
Create and edit waypoints of any shape in a few clicks or select their location in address search field

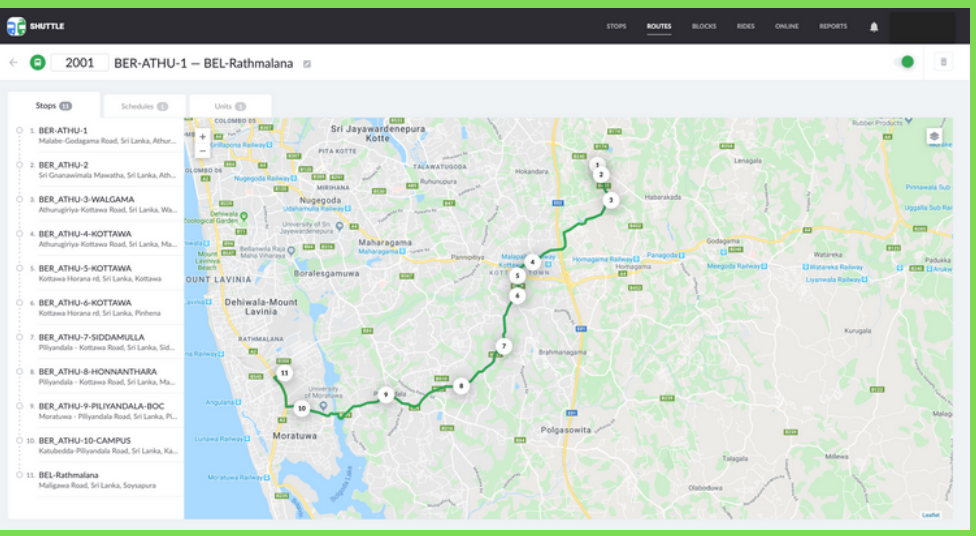
Import stops from KML/KMZ files

Specify transport vehicle type for advanced filtration and search in the list and on the map

Identify stops not involved in routes

Quick access to stops on the map from the list






## Manage routes

Generate routes with precise schedules, individual operation patterns and bound units

Add hundreds of schedules for various circumstances and create schedules on the basis of the existing ones

Assign the units constantly following the route on the specified schedule in advance

Use dynamic search and filtration by vehicle type, route number, name, etc. Change stops sequence by drag&drop or replace one stop by another

## Plan rides

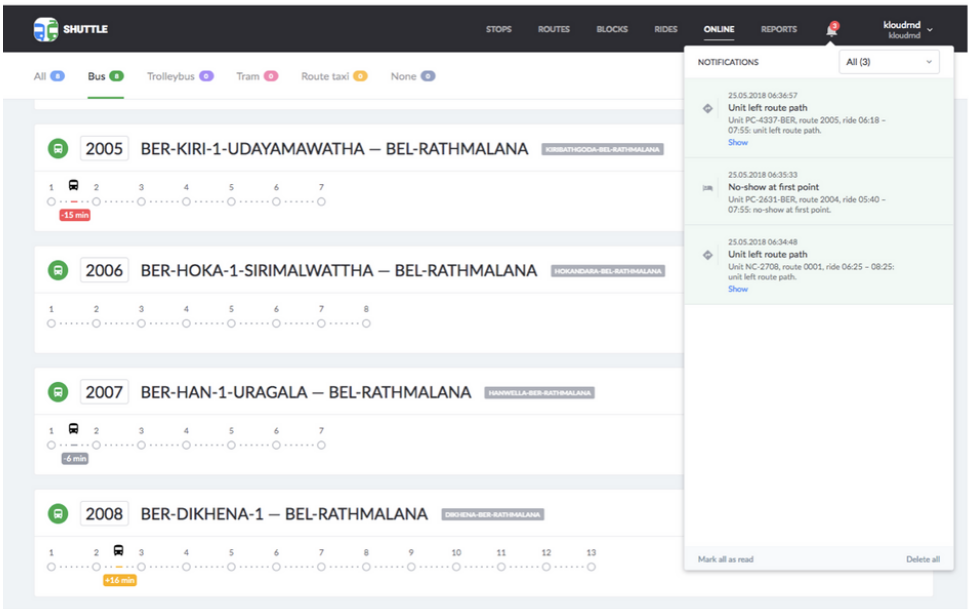
Automatically create rides based on the schedules and operation patterns of active routes

View planned rides for any date and manage rides within the following week

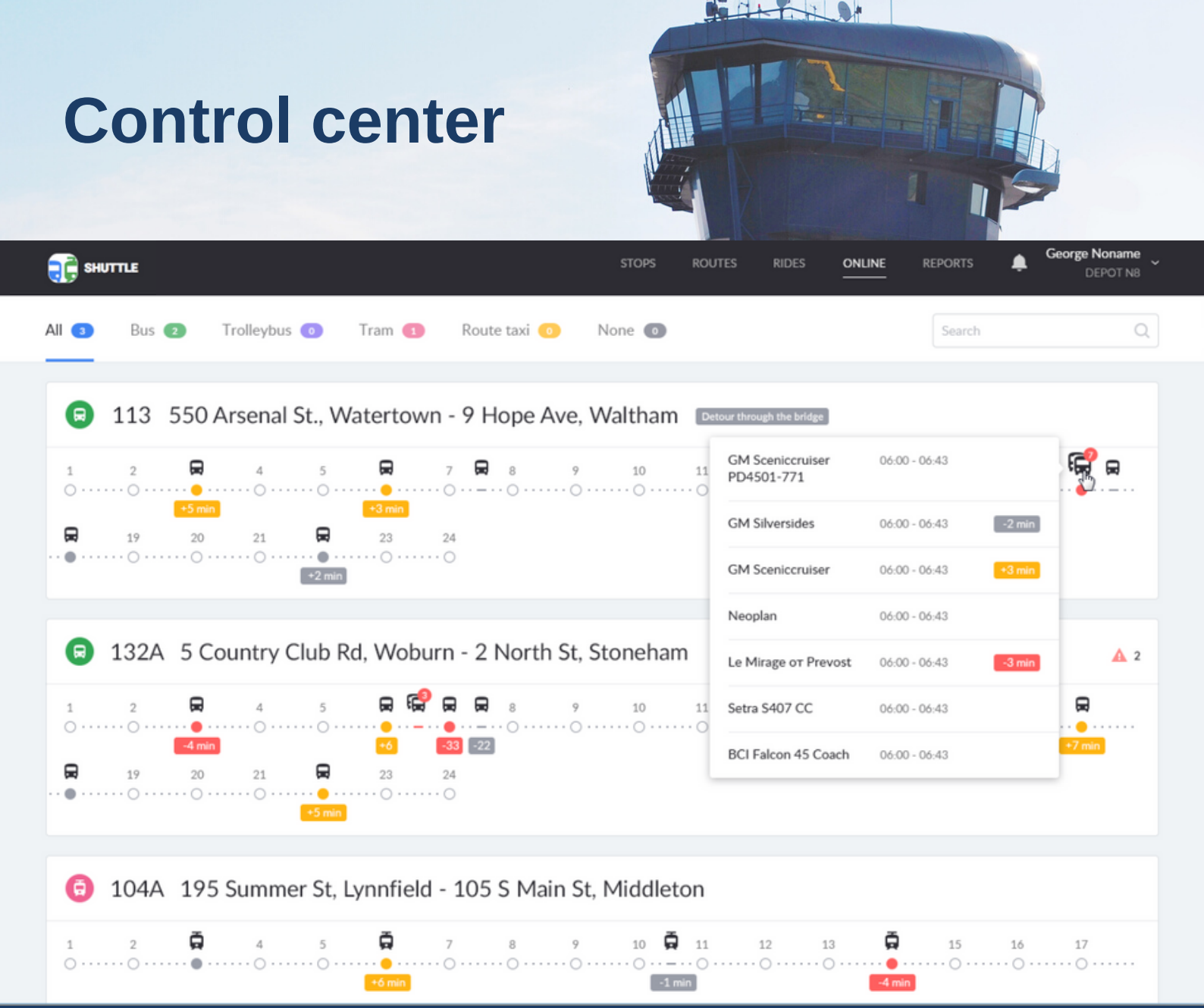
Use dynamic search and filtration to identify rides with no units assigned

Plan rides for schedules going beyond 24 hours

Group rides by a route/unit for more convenient data display

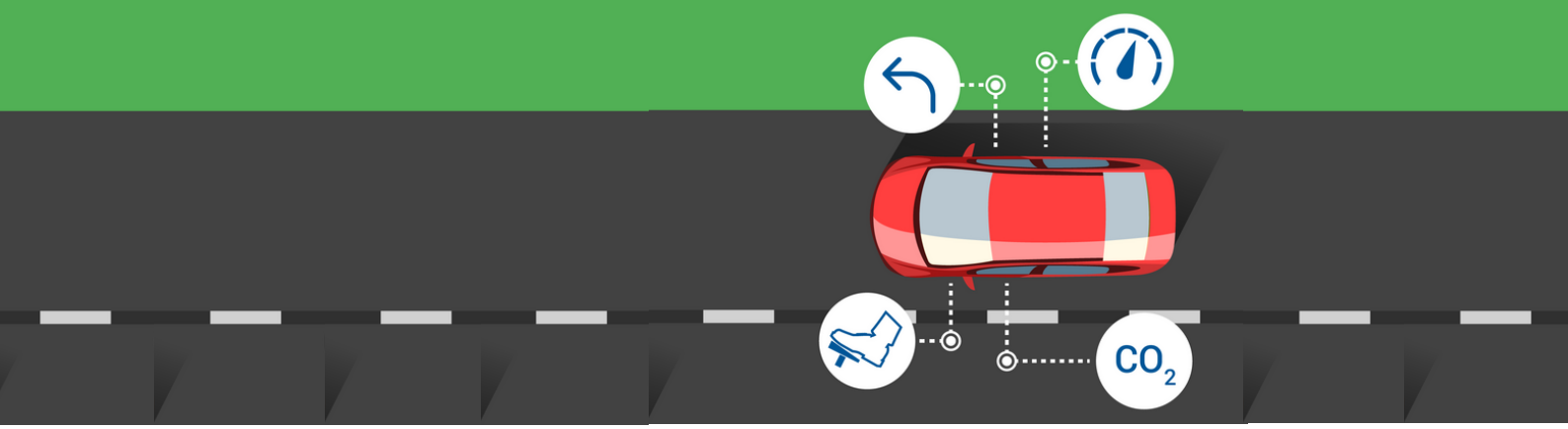


# Control center



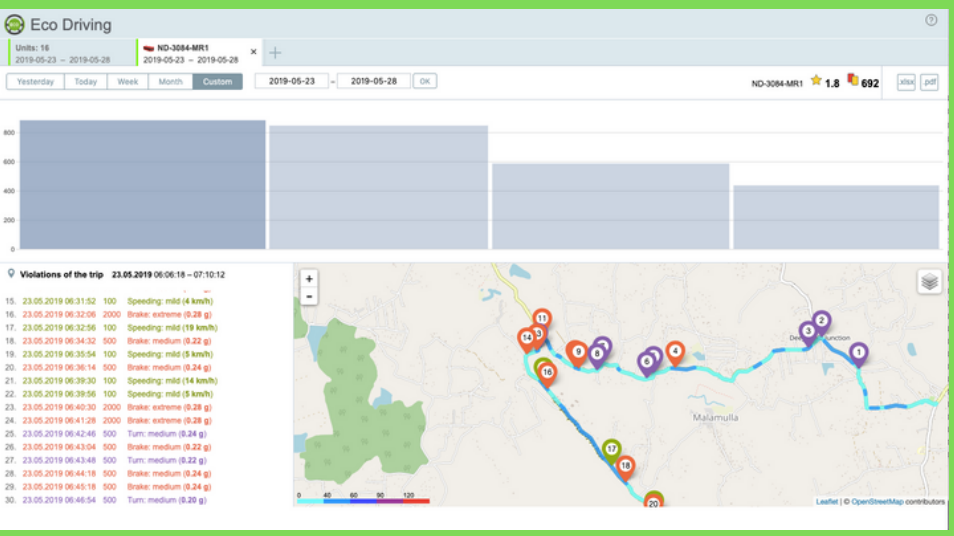

## Control rides in real time

- Use handy timeline and notifications to control late/early arrivals, deviations from the route, etc.
- Employ 1 of 3 GIS sources for unit tracking on the map.
- Make use of color identification when analyzing late/early arrivals and view tooltips for additional information.
- Replace a vehicle on the already started ride.
- Configure settings for late/early arrivals detection.




# KLOUD-*Circumspector*

Telematics based Human Factor Management in Modern Mobility




## Driving Quality Assessment

There is a set of parameters for driving quality assessment: Speeding, acceleration, breaking, acceleration while cornering, reckless driving and a range of custom parameters based on chosen sensors. These parameters should be configured based on vehicle type under FiOS telematics device properties. Moreover, the amount of penalty points should be indicated for each violation.

## Circumspector Application

Converts received penalties into a rank (6 point score assessment). The following algorithm is used:

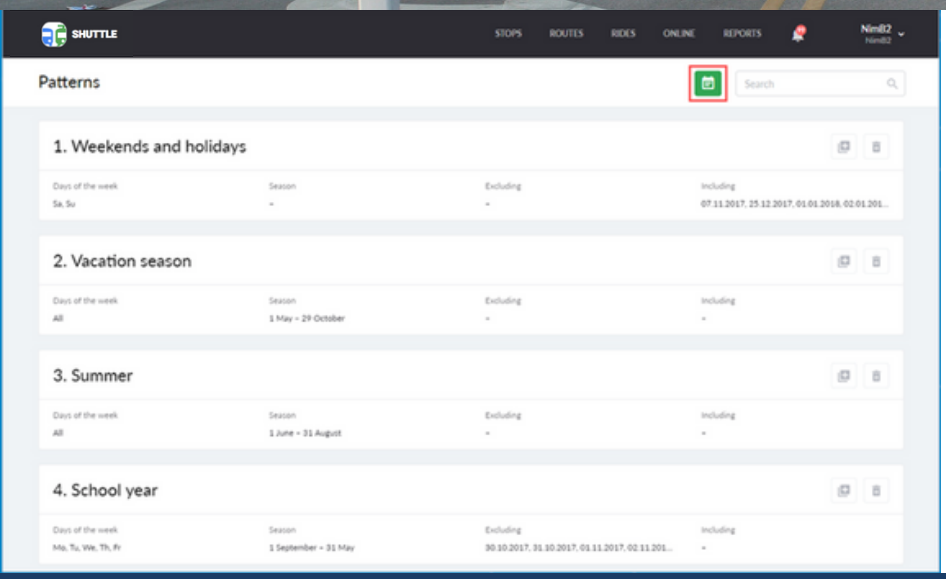
- Less than 20 penalties - 6.0 rank
- From 20 to  50 penalties - 5.0 rank
- From 50 to 100 penalties - 4.0 rank
- From 100 to 200 penalties - 3.0 rank
- From 200 to 500 penalties - 2.0 rank
- More than 500 penalties - 1.0 rank

Driving behaviour penalty templates are created based on user based practices. It is possible to re-configure penalty settings considering the vehicle types/road conditions etc by changing sensor parameter values.

1 of 1 Items from 1 to 17 of 17 50 Clear

iolation type Detalization

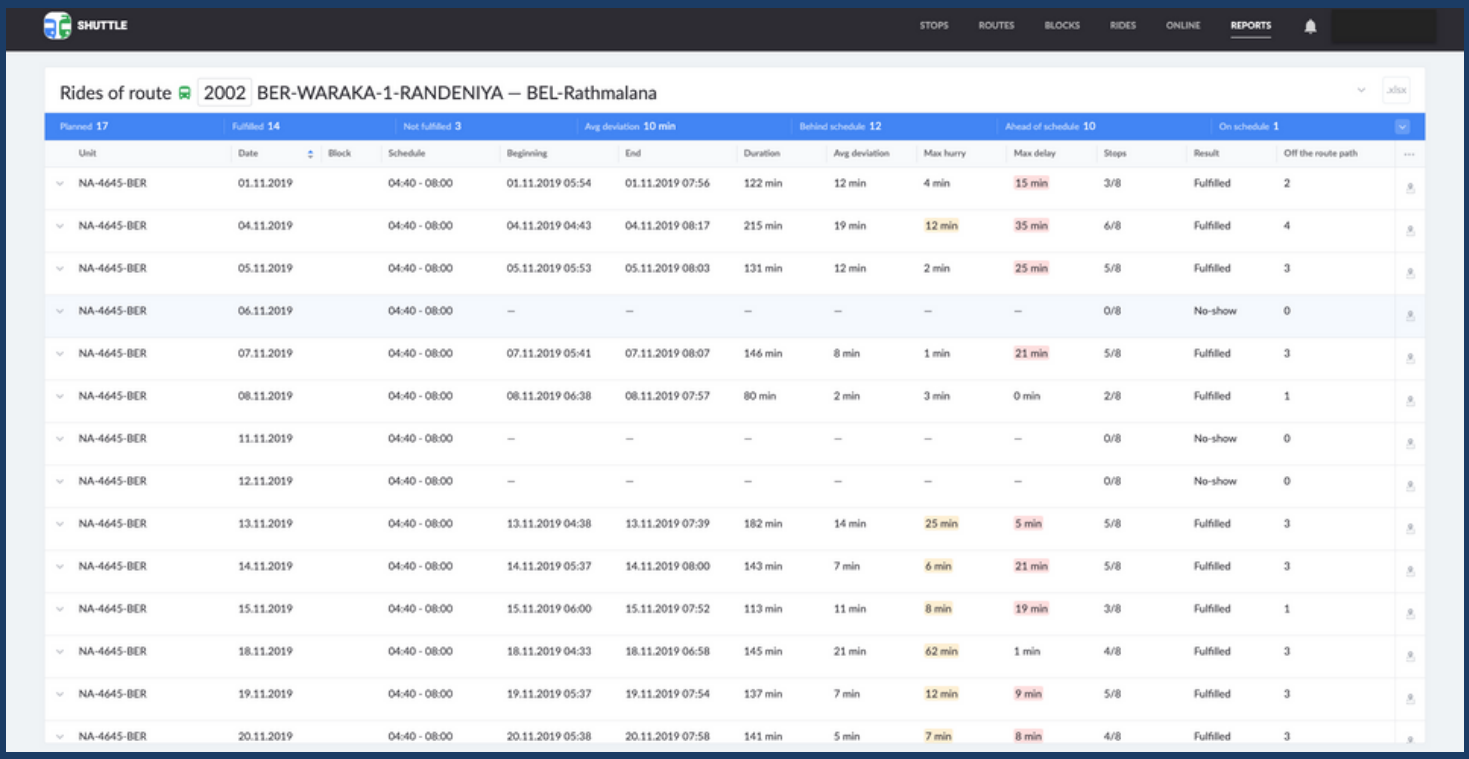
| Grouping | Violation | Value | Beginning | End | Duration | Mileage | Avg speed | Max speed | Penalties | Violation Count | Rank | Driver | Rating by violations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 53- | ----- | ----- | 2019-05-20 06:21:26 | 2019-05-26 19:59:42 | 22:44:01 | 698 km | 60 km/h | 97 km/h | 99 | 94 | 4.0 | | 2 |
| 58- | ----- | ----- | 2019-05-20 04:34:42 | 2019-05-26 17:33:28 | 1 days 14:32:55 | 1140 km | 56 km/h | 81 km/h | 201 | 418 | 2.9 | | 5 |
| HD | ----- | ----- | 2019-05-20 05:49:55 | 2019-05-25 14:40:00 | 11:14:43 | 302 km | 46 km/h | 65 km/h | 273 | 198 | 2.7 | | 10 |
| HH | ----- | ----- | 2019-05-20 16:48:22 | 2019-05-25 14:18:32 | 5:49:45 | 131 km | 24 km/h | 53 km/h | 233 | 58 | 2.8 | | 8 |
| JI-8 | ----- | ----- | 2019-05-20 05:48:38 | 2019-05-25 14:45:52 | 12:32:05 | 405 km | 52 km/h | 69 km/h | 307 | 296 | 2.6 | | 11 |
| NA | ----- | ----- | 2019-05-20 06:12:15 | 2019-05-25 14:40:04 | 11:02:21 | 328 km | 35 km/h | 49 km/h | 153 | 118 | 3.4 | | 4 |
| NA | ----- | ----- | 2019-05-20 06:36:18 | 2019-05-25 18:49:54 | 6:00:53 | 143 km | 30 km/h | 52 km/h | 116 | 31 | 3.8 | | 3 |
| NB | ----- | ----- | 2019-05-21 16:57:42 | 2019-05-25 15:17:44 | 7:08:04 | 155 km | 32 km/h | 57 km/h | 270 | 73 | 2.7 | | 9 |
| NB | ----- | ----- | 2019-05-20 06:22:28 | 2019-05-25 14:44:58 | 11:03:24 | 300 km | 50 km/h | 82 km/h | 496 | 279 | 2.0 | | 16 |
| NB | ----- | ----- | 2019-05-20 06:16:34 | 2019-05-26 14:40:22 | 12:41:02 | 351 km | 45 km/h | 70 km/h | 48 | 54 | 5.0 | | 1 |
| NC | ----- | ----- | 2019-05-20 06:08:04 | 2019-05-25 14:38:10 | 9:10:04 | 232 km | 50 km/h | 83 km/h | 353 | 160 | 2.4 | | 14 |
| ND | ----- | ----- | 2019-05-20 06:13:25 | 2019-05-25 14:32:38 | 10:09:35 | 239 km | 62 km/h | 81 km/h | 307 | 70 | 2.6 | | 12 |
| ND | ----- | ----- | 2019-05-20 00:15:15 | 2019-05-26 21:13:44 | 20:06:40 | 685 km | 59 km/h | 92 km/h | 582 | 556 | 1.9 | | 17 |




## Create custom activity schemes for each route

Operation patterns are directly connected with schedules and determine the days when the latter should be active (weekdays, seasons, roadworks periods, etc.).

# Reports




| Unit | Date | Block | Schedule | Beginning | End | Duration | Avg deviation | Max hurry | Max delay | Stops | Result | Off the route path |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NA-4645-BER | 01.11.2019 | | 04:40 - 08:00 | 01.11.2019 05:54 | 01.11.2019 07:56 | 122 min | 12 min | 4 min | 15 min | 3/8 | Fulfilled | 2 |
| NA-4645-BER | 04.11.2019 | | 04:40 - 08:00 | 04.11.2019 04:43 | 04.11.2019 08:17 | 215 min | 19 min | 12 min | 35 min | 6/8 | Fulfilled | 4 |
| NA-4645-BER | 05.11.2019 | | 04:40 - 08:00 | 05.11.2019 05:53 | 05.11.2019 08:03 | 131 min | 12 min | 2 min | 25 min | 5/8 | Fulfilled | 3 |
| NA-4645-BER | 06.11.2019 | | 04:40 - 08:00 | – | – | – | – | – | – | 0/8 | No-show | 0 |
| NA-4645-BER | 07.11.2019 | | 04:40 - 08:00 | 07.11.2019 05:41 | 07.11.2019 08:07 | 146 min | 8 min | 1 min | 21 min | 5/8 | Fulfilled | 3 |
| NA-4645-BER | 08.11.2019 | | 04:40 - 08:00 | 08.11.2019 06:38 | 08.11.2019 07:57 | 80 min | 2 min | 3 min | 0 min | 2/8 | Fulfilled | 1 |
| NA-4645-BER | 11.11.2019 | | 04:40 - 08:00 | – | – | – | – | – | – | 0/8 | No-show | 0 |
| NA-4645-BER | 12.11.2019 | | 04:40 - 08:00 | – | – | – | – | – | – | 0/8 | No-show | 0 |
| NA-4645-BER | 13.11.2019 | | 04:40 - 08:00 | 13.11.2019 04:38 | 13.11.2019 07:39 | 182 min | 14 min | 25 min | 5 min | 5/8 | Fulfilled | 3 |
| NA-4645-BER | 14.11.2019 | | 04:40 - 08:00 | 14.11.2019 05:37 | 14.11.2019 08:00 | 143 min | 7 min | 6 min | 21 min | 5/8 | Fulfilled | 3 |
| NA-4645-BER | 15.11.2019 | | 04:40 - 08:00 | 15.11.2019 06:00 | 15.11.2019 07:52 | 113 min | 11 min | 8 min | 19 min | 3/8 | Fulfilled | 1 |
| NA-4645-BER | 18.11.2019 | | 04:40 - 08:00 | 18.11.2019 04:33 | 18.11.2019 06:58 | 145 min | 21 min | 62 min | 1 min | 4/8 | Fulfilled | 3 |
| NA-4645-BER | 19.11.2019 | | 04:40 - 08:00 | 19.11.2019 05:37 | 19.11.2019 07:54 | 137 min | 7 min | 12 min | 9 min | 5/8 | Fulfilled | 3 |
| NA-4645-BER | 20.11.2019 | | 04:40 - 08:00 | 20.11.2019 05:38 | 20.11.2019 07:58 | 141 min | 5 min | 7 min | 8 min | 4/8 | Fulfilled | 3 |

## Analyze the performance of your fleet

Study ride history and assess performance quality in terms of routes and unitsGenerate basic and detailed reportsExecute reports for the intervals of up to 100 daysExport reports in .xlsx

# For managers

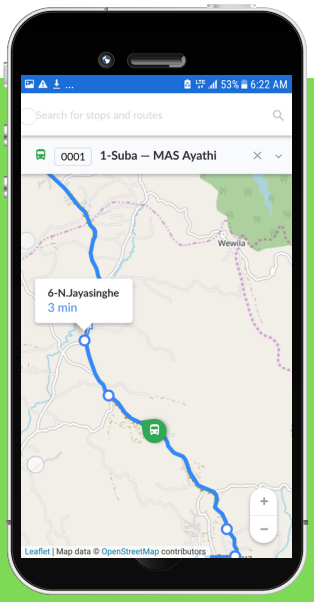
- Create an effective dispatch center for comprehensive control.
- Cut mileage, fuel and maintenance expenses by eliminating unauthorized trips.
- Avoid fines for violating schedules.
- Optimize the number of vehicles on route by minimizing idle time
- Get quick access to analytics for decision making

# For despatchers

- Ensure schedule compliance, proper vehicle distribution, and reliability of services.
- Minimize traffic disruption cases.
- Improve planning accuracy, driver discipline and passenger transportation quality.
- Optimize time for route planning, schedule management and route sheets creation.
- Replace vehicles on the already started rides in case of breakdowns.

# For passengers

| B76279 - Blk 491C | | |
|---|---|---|
| **Bus** | **Arriving** | **Next Bus** |
| 28 | 2 min | 7 min |
| 293 | 5 min | 8 min |
| **B76271 - Dunman Sec Sch** | | |
| **Bus** | **Arriving** | **Next Bus** |
| 28 | 1 min | 3 min |




Mobile app for KLOUDIP SHUTTLE enables commuters to view pickup schedule, ETA to pickup points and track corporate shuttle's real-time movement on map.

Simply scan QR codes of required routes to see the status of busses on route.

## Rate Your Ride

Driver - Excellent - Good - Bad - Not acceptable

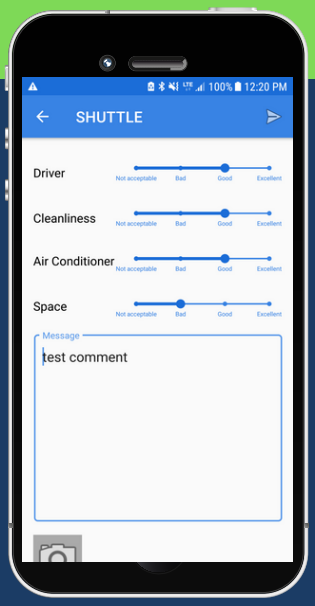
Cleanliness - Excellent - Good - Bad - Not acceptable

Air Conditioner - Excellent - Good - Bad - Not functioning

Space - Excellent - Good - Bad - Not acceptable

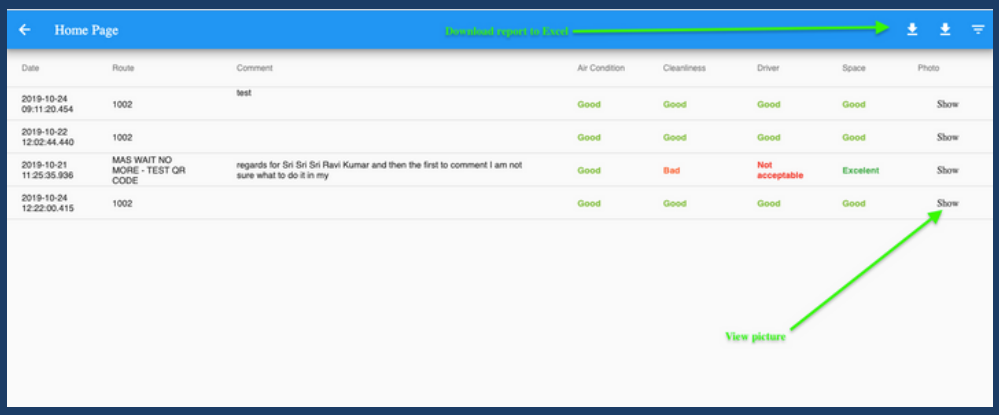
Other - Comment

Camera - Upload photo




## Web Interface

Extract, view and download (CSV,EXCEL) feed back data filtered by vehicle, fleet or all for analysis..



# Do more with Telematics...

Backed by

KLOUDCARE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