

# NimBus

the new solution for public transportation tracking



- **Free Wialon-based solution**
- **User-friendly interface**
- **Intuitive navigation**
- **Flexible configuration and ACL system**
- **API to be released for third party system integrations**

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# Combined functionality

## Tracking system features

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

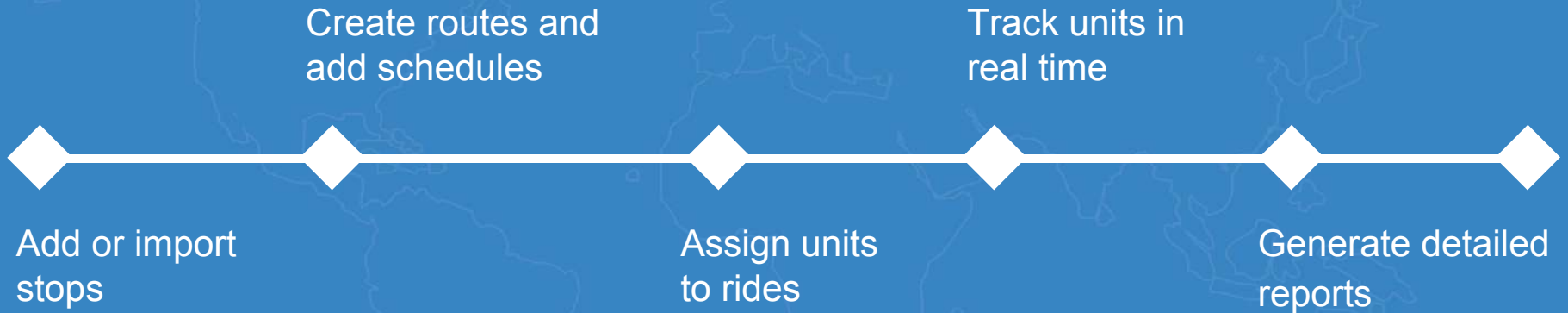
- Geofences as waypoints
- Geofence visiting control
- Flexible checkpoint order configuration
- Schedule management
- Unit bindings and distribution
- Automatic or manual ride creation
- Address search
- Event-based notifications
- Detailed reporting
- Real-time tracking on the map with scaling features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

## Specialized tools

Features developed with due consideration to dispatcher job specifics:

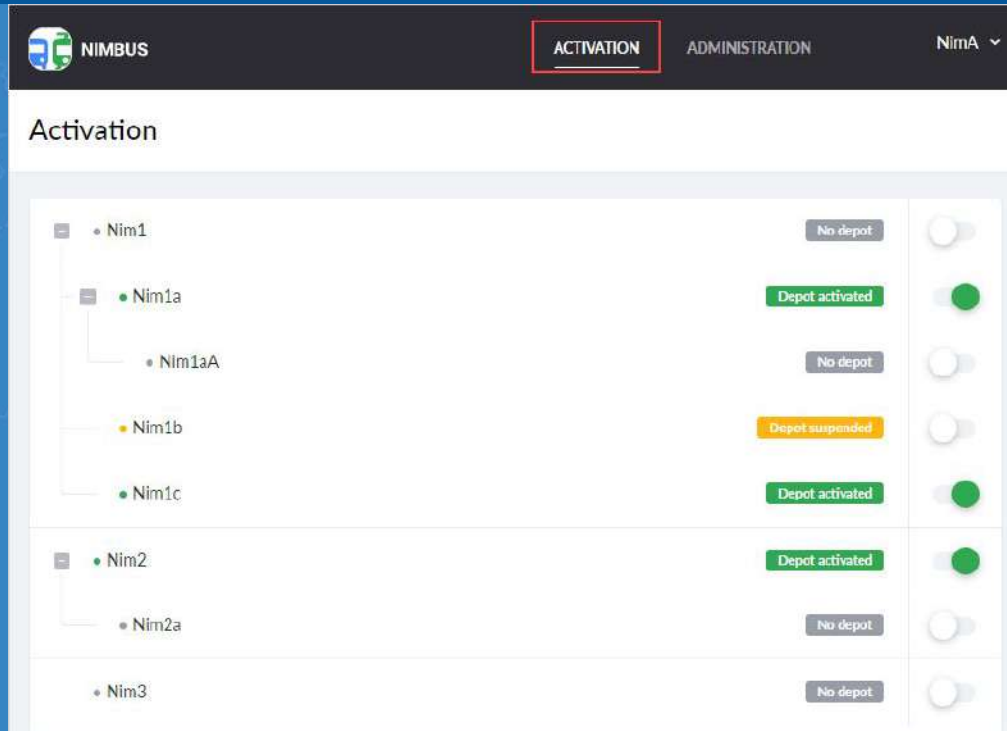
- Handy timeline for online tracking
- Business-specific reports
- Waypoints of any shape to improve tracking on the most complicated junctions
- Search and filtration by vehicle types
- Operation patterns to create individual working schedules for each route
- Color identification of late/early arrivals
- 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?



# Getting started with NimBus

- ◆ Add the new app from the library
- ◆ Authorize in NimBus
- ◆ Activate “Depot” for one of your lower-level accounts
- ◆ Continue working under the sub-account
- ◆ Good luck!



The screenshot shows the NimBus web interface. At the top, there is a navigation bar with the NIMBUS logo, a red-bordered 'ACTIVATION' tab, an 'ADMINISTRATION' tab, and a user profile 'NimA'. Below the navigation bar, the page title is 'Activation'. The main content area displays a tree view of accounts and their depot status:

Account	Depot Status	Toggle
Nim1	No depot	Off
Nim1a	Depot activated	On
Nim1aA	No depot	Off
Nim1b	Depot suspended	Off
Nim1c	Depot activated	On
Nim2	Depot activated	On
Nim2a	No depot	Off
Nim3	No depot	Off

# Depot administration

Administration: NimA3

Access rights | Route groups | Depot settings

Search [ ] Cancel Save

Users	Admin	Patterns	Scops	Group	Routes	Rides	Online
Nim1	—	—	+ [ ] [ ]	All	[ ] [ ] [ ]	—	—
Nim1a	✓	✓	+ [ ] [ ]	All	[ ] [ ] [ ]	✓	✓
Nim1aA	—	—	+ [ ] [ ]	All	[ ] [ ] [ ]	—	—
Nim1b	—	—	+ [ ] [ ]	All	[ ] [ ] [ ]	✓	—
Nim1c	✓	✓	+ [ ] [ ]	All	[ ] [ ] [ ]	—	—
Nim2	—	—	+ [ ] [ ]	All	[ ] [ ] [ ]	✓	—
Nim2a	—	—	+ [ ] [ ]	All	[ ] [ ] [ ]	—	—
Nim3	—	—	+ [ ] [ ]	All	[ ] [ ] [ ]	—	—

## 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.

Administration: NimB2

Access rights | Route groups | Depot settings

Search [ ]

Group 3

- Bus routes
  - 4 DSMam1 – DSMam5
- Trrolleybus routes
  - 3 NS1 – NS9
- Users
  - NimB2a
  - NimB2c
  - NimB2d
  - NimB2e

Group 1

Group 2

Group 3

Group 5

New route group



**Let's have a closer look at NimBus  
and its advantages**



# Stops

## Create or import stops

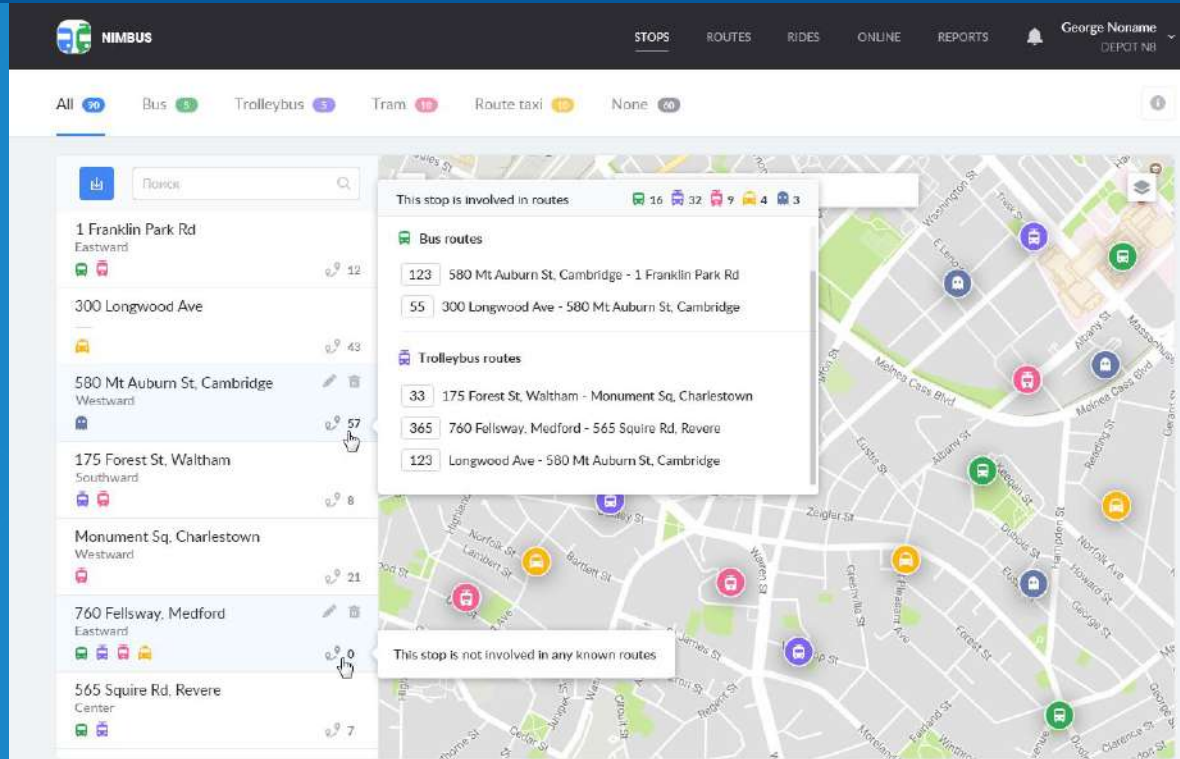
Create and edit waypoints of any shape in a few clicks or select their location in address search field

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



The screenshot displays the NIMBUS application interface. At the top, there is a navigation bar with the NIMBUS logo and user information (George Noname, DEPT: NR). Below the navigation bar, there are tabs for different transport modes: All (90), Bus (5), Trolleybus (5), Tram (10), Route taxi (10), and None (60). The main interface is divided into a list of stops on the left and a map on the right. The list of stops includes:

- 1 Franklin Park Rd Eastward (12 routes)
- 300 Longwood Ave (43 routes)
- 580 Mt Auburn St, Cambridge Westward (57 routes)
- 175 Forest St, Waltham Southward (8 routes)
- Monument Sq, Charlestown Westward (21 routes)
- 760 Fellsway, Medford Eastward (0 routes)
- 565 Squire Rd, Revere Center (7 routes)

The map on the right shows a street view with various stops marked by icons. A pop-up window titled "This stop is involved in routes" is displayed over the map, listing the following routes:

- Bus routes:**
  - 123 580 Mt Auburn St, Cambridge - 1 Franklin Park Rd
  - 55 300 Longwood Ave - 580 Mt Auburn St, Cambridge
- Trolleybus routes:**
  - 33 175 Forest St, Waltham - Monument Sq, Charlestown
  - 365 760 Fellsway, Medford - 565 Squire Rd, Revere
  - 123 Longwood Ave - 580 Mt Auburn St, Cambridge

Another pop-up window titled "This stop is not involved in any known routes" is also visible on the map.

# Routes

## Manage routes

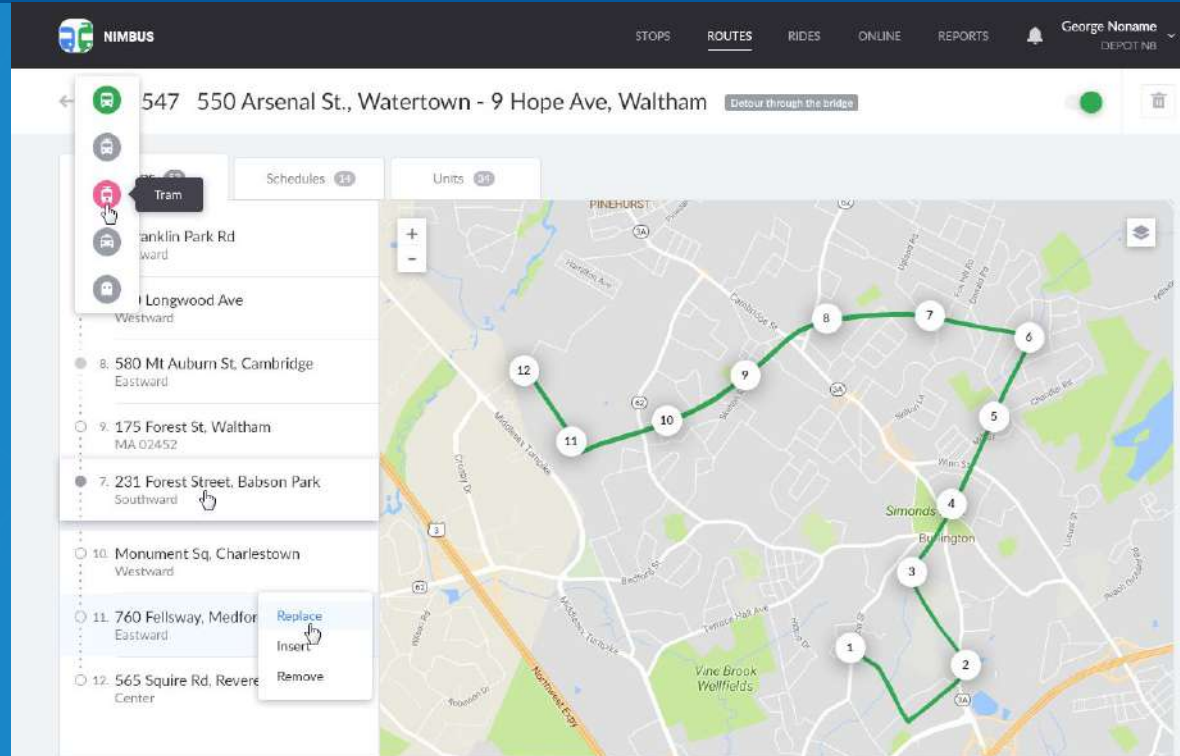
Generate routes with precise schedules, individual operation patterns and bound units

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



NIMBUS

STOPS ROUTES RIDES ONLINE REPORTS

George Noname  
DEPOT NB

547 550 Arsenal St., Watertown - 9 Hope Ave, Waltham Detour through the bridge

Tram

Franklin Park Rd  
ward

Longwood Ave  
Westward

8. 580 Mt Auburn St, Cambridge  
Eastward

9. 175 Forest St, Waltham  
MA 02452

7. 231 Forest Street, Babson Park  
Southward

10. Monument Sq, Charlestown  
Westward

11. 760 Fellsway, Medford  
Eastward

12. 565 Squire Rd, Revere  
Center

Replace  
Insert  
Remove

# Rides

## Plan rides

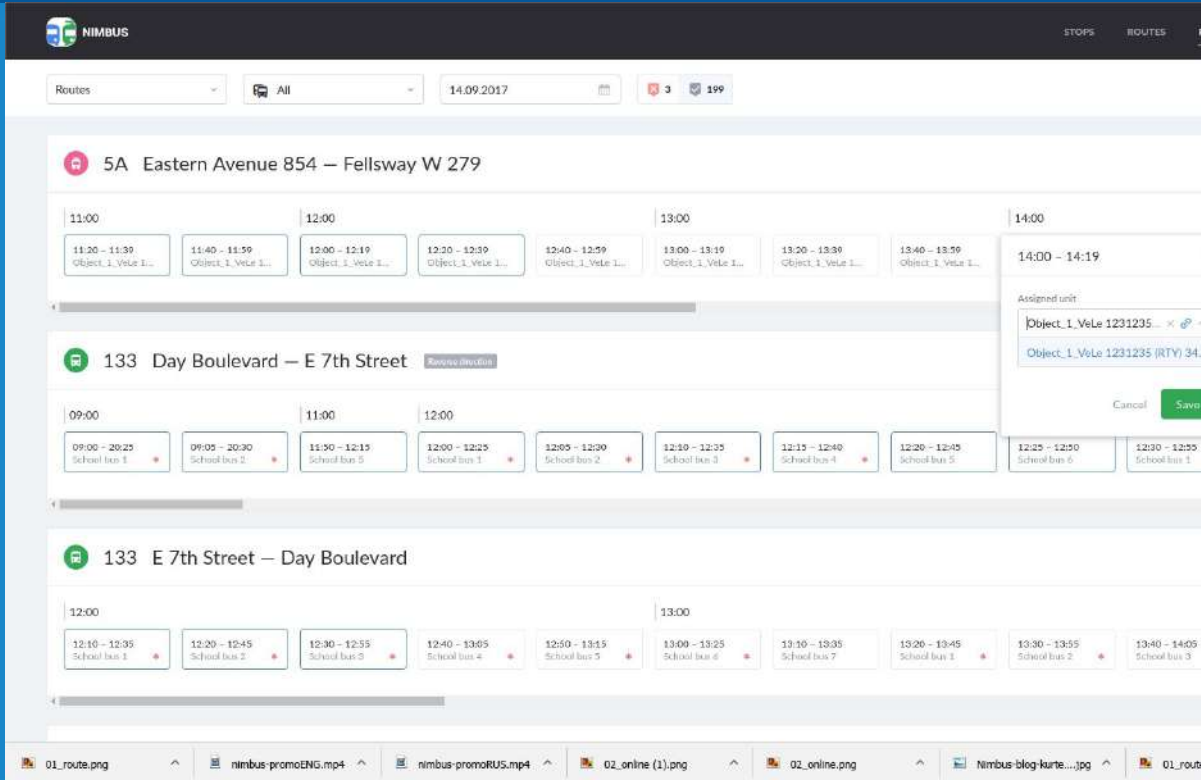
Automatically create rides based on the schedules and operation patterns of active routes

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



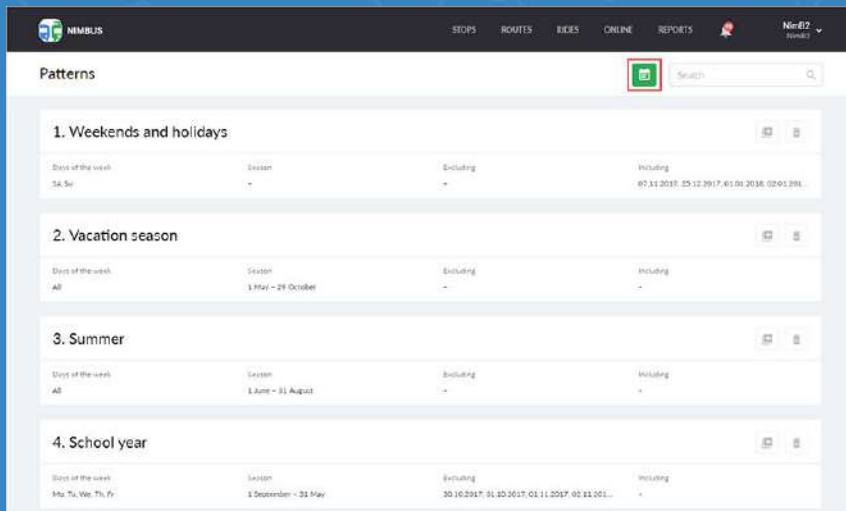
The screenshot displays the NIMBUS software interface for route planning. The top navigation bar includes the NIMBUS logo, a date filter set to 14.09.2017, and user statistics (3 and 199). The main content area shows three route sections:

- 5A Eastern Avenue 854 – Fellsway W 279:** A timeline view showing scheduled rides from 11:00 to 14:00. Individual ride boxes include start/end times and unit identifiers (e.g., Object\_1\_VeLe 1...).
- 133 Day Boulevard – E 7th Street:** A timeline view showing scheduled rides from 09:00 to 12:30. Individual ride boxes include start/end times and unit identifiers (e.g., School bus 1).
- 133 E 7th Street – Day Boulevard:** A timeline view showing scheduled rides from 12:00 to 13:00. Individual ride boxes include start/end times and unit identifiers (e.g., School bus 1).

On the right side, a sidebar shows the 'Assigned unit' dropdown menu with options like 'Object\_1\_VeLe 1231235...' and 'Object\_1\_VeLe 1231235 (RTY) 34...'. A 'Save' button is visible at the bottom of this sidebar.

The bottom of the screen shows a Windows taskbar with several open applications, including '01\_route.png', 'nimbus promoENG.mp4', 'nimbus-promoRUS.mp4', '02\_online (1).png', '02\_online.png', 'Nimbus-blog-kurte...jpg', and '01\_rout...'.

# Operation patterns



The screenshot displays the 'Patterns' section of the NIMBUS software. At the top, there is a navigation bar with 'STOPS', 'ROUTES', 'BUSES', 'ONLINE', 'REPORTS', and a user profile 'Nic-EZ'. Below the navigation bar, the 'Patterns' title is followed by a search bar and a green plus icon. The main content area lists four patterns:

- 1. Weekends and holidays**: Days of the week: SA, Su; Season: -; Excluding: -; Including: 07.11.2017, 25.12.2017, 01.01.2018, 02.01.2018.
- 2. Vacation season**: Days of the week: All; Season: 1 May - 29 October; Excluding: -; Including: -.
- 3. Summer**: Days of the week: All; Season: 1 June - 31 August; Excluding: -; Including: +.
- 4. School year**: Days of the week: Mo, Tu, We, Th, Fr; Season: 1 December - 31 May; Excluding: 30.10.2017, 31.10.2017, 01.11.2017, 02.11.2017, ...; Including: +.

## 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.).

# Online tracking

## Control rides in real time

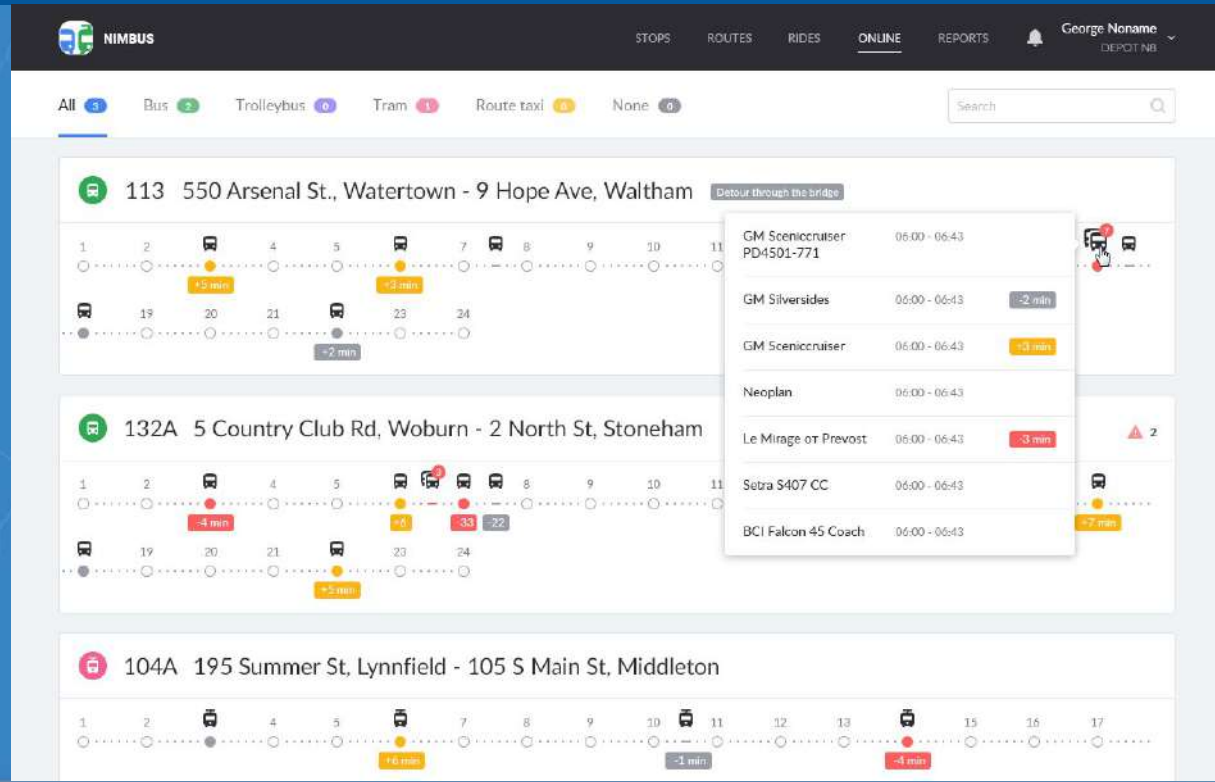
Use handy timeline and notifications to control late/early arrivals, deviations from the route, etc.

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



The screenshot displays the NIMBUS online tracking interface. At the top, there is a navigation bar with the NIMBUS logo, user name 'George Nname', and a 'DEPOT NB' dropdown. Below the navigation bar are tabs for 'STOPS', 'ROUTES', 'RIDES', 'ONLINE', and 'REPORTS'. A search bar is located on the right side of the navigation bar.

The main content area shows three routes, each with a timeline of stops and vehicle status indicators:

- Route 113:** 550 Arsenal St., Watertown - 9 Hope Ave, Waltham. A tooltip for vehicle GM Scenicruiser PD4501-771 is open, showing a schedule from 06:00 to 06:43. Other vehicles on this route include GM Silversides (2 min delay), GM Scenicruiser (1 min delay), Neoplan, Le Mirage or Prevost (3 min delay), Setra S407 CC (7 min delay), and BCI Falcon 45 Coach.
- Route 132A:** 5 Country Club Rd, Woburn - 2 North St, Stoneham. Vehicle status indicators show delays of -4 min, +6 min, -33 min, and -22 min.
- Route 104A:** 195 Summer St, Lynnfield - 105 S Main St, Middleton. Vehicle status indicators show delays of +16 min, -1 min, and -4 min.

# Reports

## Analyze the performance of your fleet

Study ride history and assess performance quality in terms of routes and units

Generate basic and detailed reports

Execute reports for the intervals of up to 100 days

Export reports in .xlsx



STOPS

### Rides of unit Object\_1\_VeLe 1231235 (RTY) 34526-346

Route	Date	Schedule	Beginning	End	Duration	Avg deviation
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	09:30 - 09:49	01.09.2017 09:26	01.09.2017 09:43	17 min	5 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	09:55 - 10:14	01.09.2017 09:52	01.09.2017 10:08	17 min	4 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	10:20 - 10:39	01.09.2017 10:18	01.09.2017 10:34	17 min	3 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	10:40 - 10:59	01.09.2017 10:31	01.09.2017 10:34	4 min	24 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	11:00 - 11:19	01.09.2017 10:52	01.09.2017 11:00	9 min	18 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	11:20 - 11:39	01.09.2017 11:10	01.09.2017 11:26	17 min	11 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	11:40 - 11:59	01.09.2017 11:36	01.09.2017 11:52	17 min	5 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	12:00 - 12:19	01.09.2017 12:02	01.09.2017 12:18	17 min	2 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	12:20 - 12:39	01.09.2017 12:10	01.09.2017 12:18	9 min	20 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	12:40 - 12:59	01.09.2017 12:32	01.09.2017 12:44	13 min	13 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	13:00 - 13:19	01.09.2017 12:54	01.09.2017 13:10	17 min	7 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	13:20 - 13:39	01.09.2017 13:20	01.09.2017 13:36	17 min	1 min
5A Eastern Avenue 854 – Fellsway W 279	01.09.2017	13:40 - 13:59	01.09.2017 13:33	01.09.2017 13:36	4 min	27 min

## For owners and 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 dispatchers

- ◆ 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





# Enjoy a complete solution

Use advanced Wialon functionality to create a  
comprehensive passenger transportation  
management solution

## Developed in Q4, 2017





**Thank you for your attention!**