SYGIC MAPS

Online Maps, Geocoding, Search, Routing and Optimization APIs for Enterprise solutions
MAPS API
Embed raster map tiles or fast vector maps with any information and graphics using Custom Layers.

GEOCODING & SEARCH API
Find places and addresses, convert them to geo-coordinates, or just see suggestions as you type using Autocomplete.

ROUTING API
Pedestrian, car, truck, bus, delivery van or RV routing algorithms used by more than 150 million drivers worldwide.

ROUTE OPTIMIZATION API
Multi-vehicle and multi-stop sequence optimization using various restrictions and attributes.
Sygic Enterprise Solutions focuses on developing Professional Navigation with SDK, Sygic Maps API Services and other location based services for B2B customers in the fields of transportation, logistics, parcel delivery, automotive, utilities, emergency and municipal services.

WE DEVELOP ENTERPRISE READY MAPS & NAVIGATION COMPONENTS FOR FLEET MANAGEMENT, TRACKING, ROUTE PLANNING AND OPTIMIZATION SOLUTIONS.

200 M +

navigation downloads. 5 million added each month

110 +
countries around the world

2000 +
fleets

1 M +

professional drivers using Sygic Professional Navigation every day

#1

publisher on Google Play and iOS by Revenue in the Navigation category

200

employees
DATA FOR EVERY USE CASE

Sygic Maps covers 202 countries worldwide and includes local POIs, real time or historical traffic data, fuel prices, toll costs and parking information from different vendors and sources. Sygic Maps offers logistics data such as truck restrictions and specific POIs, delivery zones to support food, postal and parcel delivery. The map looks is optimized for enterprise track & trace solutions.

MAP AGNOSTIC

Sygic Maps offers seamless functionality using different map providers. You can select a different provider for each of your projects or fleets. HERE or TomTom premium quality map data or community OpenStreetMaps are available. We can work with local map providers as well as use your own data prepared in ESRI or another standard map format.

CLOUD-BASED

Maps, geocoding, search, routing and even advanced sequencing and optimization services accessible from the cloud means no additional costs for hardware or software licenses nor a need for support team. We take care of everything – high availability, disaster recovery, backup, maintenance, upgrade and update. Our architecture dynamically scales and runs in multiple locations to improve the user experience. No personal data stored on our infrastructure means no problem with information privacy laws.
COMMERCIAL ROUTING & OPTIMIZATION

Sygic Maps offers unlimited sequencing and optimization experience. It also features ready-to-use multi-vehicle and multi-stop optimization considering various restrictions, vehicle attributes (vehicle type, availability, capacity, cost per km, cost per hour, maximum driving and working times) and task attributes (compatible vehicles, volume, priority, pickup, and delivery service times and time windows).

Complex result-set provides all necessary information, e.g. vehicles used, tasks and capacity served, total costs, working time, distance, and time driven, individual routes with details. Even more advanced optimization algorithms, consultancy and project-based customization are provided in cooperation with our partners.

TRANSPARENT PRICING, TERMS AND CONDITIONS

For more efficient and predictable cost planning, Sygic Maps comes with a transparent pay-per-asset (vehicle, device, field worker, mobile user) pricing and business model. Sygic offers long term enterprise contracts with guaranteed price, terms and conditions, professional technical support, direct communication and help to your team and users. We are flexible enough to tailor the conditions and pricing to your needs – it is all about win-win!
MAPS API

Embed Sygic Maps into your web or mobile solution and experience state of the art design powered by our top-notch algorithms and technologies. Choose your preferred map data provider for each fleet or project – select from premium vendors like TomTom or HERE, community maintained OpenStreetMaps or use your own custom-made map data.

Display POIs, Truck restrictions, Road info & Custom Layers

With Sygic Maps you can display various layers on top of the map. Show all or just a specific category of preloaded points of interest especially built for transport and logistics.

- Display truck or other restrictions (e.g. for hazardous materials transportation) specific for your vehicle type, size, or current need.
- Read and display road segment information, e.g. speed limit, road category, elevation, etc.
- Add your own POIs or places, show vehicles or pins on top of the map, enhance the user experience with interactive pop-ups, images, polygons, geo-fences, or other objects.

Optimized maps to meet enterprise needs

Our reliable map tiles rendering algorithm is compatible with all browsers and devices. Sygic Maps are provided along with a modern, fast rendering vector technology with smooth zoom and transitions for the best user experience.

- Up to 30% less map data transferred when compared to traditional technologies to save your costs and data usage.
- Pre-rendered areas for the best performance and a universal map skin to fit all needs.
- Incremental map updates without service interruptions.
Real-time traffic flow and prediction, closures & incidents

Visualize traffic flow for any date and time in a year based on a prediction model using historical and statistical speed profiles. Select the types of closures and incidents you want to display, e.g. accidents, construction zones, congestions, temporary road closures, etc.

Snap GPS to road, cluster map objects and Heatmaps

Import a set of GPS coordinates from GPS black box or 3rd party application and apply it to map using our snap to road algorithm. Use clustering functionality to display number of objects on a small map area for different zoom levels. Heatmaps layer visualizes intensity of map data and objects at geographical points.

Satellite & Street Imagery

Sygic Maps supports satellite or hybrid map view for better planning or track & trace experiences. Street imagery also includes our own premium content – exclusive 360-degree virtual reality videos for selected cities.
Transform any number of known addresses to latitude and longitude coordinates using Sygic Maps unique geocoding algorithms and data from various map providers incl. Sygic premium virtual reality content. Your custom places are combined with standard search results based on structured or unstructured free-text input or using self-learning Autocomplete.

**Geocoding & Reverse geocoding**

Precise geocoding technology corrects misspelled words and uses a database of common address abbreviations and prefixes. Sygic Maps geocoder transforms any address, postal code, landmark, point of interest on the map or in a shaped area into GPS coordinates together with relevance scoring. Reverse geocoding encodes a location point defined by latitude and longitude to a readable address or place name. The result suggests addresses, POIs, landmarks, or areas near the searched position. Large amounts of addresses or GPS coordinates can be geocoded in batch requests.

**POIs & Places**

Search and discover categorized points of interest and landmarks including extended information, e.g. detailed descriptions, opening hours, pictures and many more.

Upload, visualize and manage your custom places that will be included in search results like any standard addresses or points of interest.
Intelligent search

Self-learning search uses machine learning and natural language queries (e.g. “best Italian restaurant”). Relevance scoring is trained by collected data. E.g. personalized scoring, custom scoring for similar groups, regional and seasonal trends, iterative improvement of relevance.

Full text search & Autocomplete

Sygic Maps can search based on structured as well as unstructured input. Free-text is parsed and transformed using our algorithms and geocoding. It returns GPS coordinates together with relevance scoring. Sygic Maps supports Autocomplete functionality returning suggestions and possible matches as you type in real time.
ROUTING API

Do not limit your planning experience and use Sygic Maps fast and reliable route planning algorithm based on everyday experience of more than 150 million drivers worldwide. Our easy-to-implement API suits all your vehicles and use cases – local delivery zones, emission zones, heavy truck attributes, hazardous material restrictions, and many more, but always with a focus on road safety.

Routing services

Route planning between two locations with possible multiple waypoints (stop-overs) and alternative routes for even better decisions.

Configurable combination of real-time traffic conditions, planned closures, incidents and traffic flow prediction can be used in route planning. Routing return distances, driving times to destinations, estimated times of arrival and routing directions. Configure and override avoids and permissions by your custom database values, e.g. speed limits, low bridge avoids, special transit permissions etc.

Types of routing:
- Pedestrian
- Car
- Truck
- Delivery van
- Bus
- Emergency vehicles
- Recreational vehicles

Commercial vehicles

Sygic Maps route planning services can use commercial vehicles and truck attributes to automatically avoid all roads unsuitable for heavy trucks, special cargoes, or hazardous materials. You can use predefined vehicle profiles or set the vehicle’s parameters and truck-related attributes.
Road Safety

Sygic Maps implements many road safety features for various industries. “Reach destination in driving direction” is often used by food, postal or parcel distribution. Preferred right turn is usually used by long haul fleets to avoid time-consuming and dangerous left turns at intersections against incoming traffic. Avoidance of sharp curves in a direction of the momentum of the rotating cement drum is a feature loved by our construction fleets.

Synchronization with 3rd party solutions

Export the planned routes as waypoints or as a set of GPS coordinates, save them to database or dispatch planned route directly to Sygic Professional Navigation. You can use planned routes within any other 3rd party application. Import a set of waypoints or GPS coordinates from GPS black box or 3rd party application and calculate a route or apply it to map using our snap to road algorithm to visualize the most probable route trajectory.
Sygic Maps push the limits of standard cloud-based mapping services and offers easy-to-implement, fast-performing and powerful distance matrix calculation, sequencing, and optimization for one or more vehicles! We accept the challenge and are open for any volume of stops or size of fleet for sequencing or multi-vehicle optimization in real world scenarios – it’s your turn...

Distance matrix & Sequencing

Use Sygic Maps distance matrix API to retrieve distance and duration values between multiple stops.

Our ultra-fast and sophisticated algorithms can calculate the optimal sequence between given stops not only for cars, but even for heavy trucks based on pre-defined vehicle profiles or based on your specific truck attributes. Sequence optimization allows you to input the earliest or latest allowed time to arrive for pickup or delivery.
Route optimization

Sygic Maps Optimization API provides computing and analysis for multi-vehicle and multi-stop optimization with various restrictions.

- Define vehicle attributes, such as vehicle type, availability, capacity, cost per km, cost per hour, maximum driving and working times.
- Specify task attributes, e.g. compatible vehicles, volume, priority, pickup, and delivery service times and time windows.

Sygic Maps Optimization API returns a complex result-set including vehicles used, tasks and capacity served, total costs, working time, distance and time driven and individual routes with details.

Toll costs & Fuel costs

Sygic Maps toll and fuel costs calculation enhances planning efficiency even more. Tolls and fuel costs are available for selected countries in Europe and North America and for various vehicle parameters, e.g. vehicle category, weight and height, trailer type, numbers of axels, emission type, number of passengers. Calculation results include details for each transit country.

Advanced optimization

We understand that optimal planning can be very complex and often very specific. Sygic cooperates and integrates with the best optimization services and consultancy companies worldwide. We are happy to help you and find a solution for any of your needs in cooperation with our preferred partners.
ENHANCE SYGIC MAPS WITH COMPATIBLE SYGIC PROFESSIONAL NAVIGATION WITH SDK

Using a single source of map data in Sygic Maps in the back office and in Sygic Professional Navigation on the drivers’ device means that distances driven on the road are the same as planned in the office. This results in much more efficient operational cost planning.

Features

- Truck, Emergency and Taxi routing
- Speed profiles for exact ETA predictions
- Cloud-based Route optimization
- Turn-by-turn voice instructions
- Speed camera database
- Real Time traffic info
- Itineraries with time windows
- Time domains for delivery
- Guided routes
- Rest stop planning according to Tachograph/ELD
- Custom Points of Interest
- Geofences & custom map overlay
- 40+ languages

SYGIC PROFESSIONAL NAVIGATION

Every day over 500,000 professional drivers rely on Sygic Professional Navigation for high quality offline maps and professional turn-by-turn navigation.

- Mobile app for any Android and iOS smartphone or tablet
- No internet connection needed. Maps are stored on the device
- SDK available for Android, Windows and Linux
- Configurable for any large-scale deployment
- 60+ well documented API functions
500+ INTEGRATING PARTNERS

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2000+ FLEETS

2000+ FLEETS