

Kapsch TrafficAssist

Unleashing Orchestrated Corridor and Demand Management.

Kapsch TrafficAssist enables city and highway authorities to provide meaningful and relevant real-time traffic information to road users, enabling an user-friendly mobility experience, alleviating congestion, enhancing safety, and improving overall traffic efficiency.

Kapsch TrafficAssist is an integrated mobility solution available on mobile platforms iOS and Android that aim to enhance road user safety and mobility. The Mobile Platform is part of the broader KTC's concept of smart cities and intelligent transportation systems (ITS), which leverage technology to address urban transportation challenges and create sustainable cities. It provides road users with easy access to mobility warning services on their smartphones or tablets. Kapsch TrafficAssist includes a wide range of features and information services that streamline and optimize transportation and mobility within a specific area or corridor so enhancing the flow of traffic, improving safety and reducing congestion.

Kapsch TrafficAssist™ includes:

- **Kapsch TrafficAssist™ Mobile:** mobile application platform which includes a set of modules for serving all mobility use cases. Kapsch's TrafficAssist mobile platform is available as a Full-Featured All-in-One Mobility Application or as a Mobility Services SDK.
- **Kapsch TrafficAssist™ Analytics:** mobile data analytics for enabling data insights and analysis of implemented use cases to authorities and organizations. Kapsch's TrafficAssist analytics consist of an In-App mobile Data Analytics Layer and a Sensory mobile Data Analytics Layer.

Full-Featured All-in-One mobility application.

Kapsch's All-in-One Mobility Application is a comprehensive solution that seamlessly integrates the latest Connected Vehicle (CV) and Demand Management (DM) services into a single native mobile application. This innovative platform encompasses the complete feature sets of North America and Europe, Connected Vehicle, adhering to both ETSI and WAVE safety standard versions. The application goes beyond basic functionalities by incorporating advanced Demand Management services, including time-to-green countdowns, optimal speed advisories to enhance timing at green lights, and red-light warnings. This integration ensures a holistic approach to mobility, providing users with a unified and efficient experience for enhanced convenience and safety.

Mobility services SDK.

Kapsch Mobility Services SDK ensures a smooth and efficient integration process of existing mobile application elevating it with the latest Connected Vehicle (CV) and/or Demand Management (DM) services. By using this capacity, authorities are allowed to tap into the vast potential of Connected Vehicle and Demand Management technologies without the need for significant development.

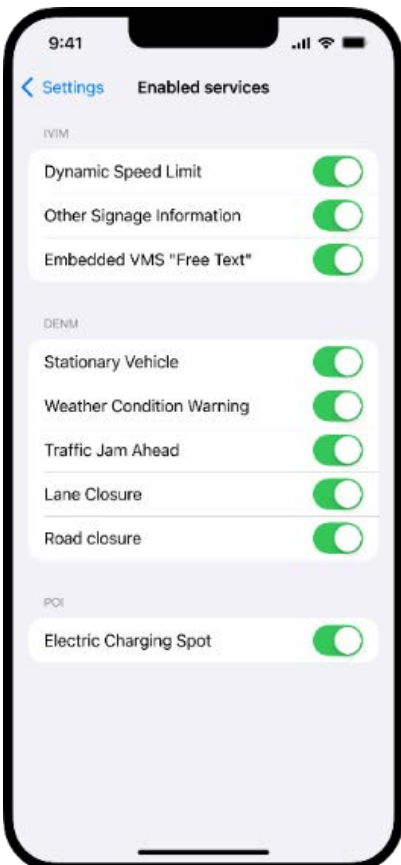


Orchestrated Connected Corridor and Demand Management.

Kapsch TrafficAssist enables Orchestrated Corridor and Demand Management to improve road safety, optimize traffic flow and enhance overall transportation efficiency. Our solution integrates real-time traffic data and smart traffic management capabilities to ensure a smooth and seamless journey for users.

Real-Time traffic information.

Kapsch TrafficAssist provides users with up-to-date information on traffic conditions within the area or corridor. This includes data on traffic jams, accidents, road closures, and construction and much more. The Mobile Platform is designed to provide real-time, meaningful traffic information that influences travel choices and driving behavior, making the journey safer and more reliable.



Comprehensive driving screen.

With Kapsch TrafficAssist, users have a comprehensive driving screen at their fingertips. It seamlessly combines a map-based display with real-time notifications and signage, ensuring users stay updated with relevant information while on the road. Kapsch TrafficAssist utilizes location, travel direction, speed, and area of interest to display traffic messages and events relevant for the user.

Customization and User Preferences.

Kapsch TrafficAssist™ offers a range of information services to suit users' preferences. Users can personalize which traffic events are presented and set preferred radius for receiving relevant messages. Safety is driver's utmost priority, which is why Kapsch TrafficAssist™ does not require any end-user interaction to use the service while driving other than brief glances to get the information.

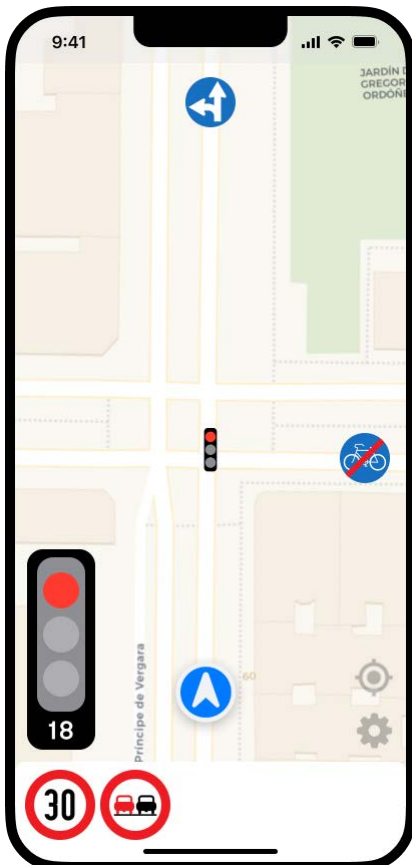


Improving pedestrian and bicyclist safety.

Kapsch TrafficAssist is designed to enhance pedestrian and bicyclist safety by providing notifications and information to drivers. It serves as a valuable tool for drivers to stay informed about potential safety risks involving pedestrians and bicyclists in various road situations. Kapsch TrafficAssist is capable to notify drivers when pedestrians crossing the road inside or outside of designated crosswalks. Furthermore, Kapsch TrafficAssist helps drivers become aware of the presence of bicyclists in their vicinity.

Improving hazardous road situations.

Kapsch TrafficAssist provides real-time notifications and alerts about hazardous road conditions and potential dangers to the drivers. It is designed to keep drivers informed promoting safer navigation through congested traffic, avoiding stationary vehicles. Drivers receive timely notifications about upcoming traffic delays such as traffic congestion or jams. When a stopped vehicle is detected, drivers receive instant alerts by Kapsch TrafficAssist, reducing the risk of rear-end collisions and enabling them to take necessary precautions, such as changing lanes or slowing down.



Improving mobility.

Kapsch TrafficAssist is designed to promote environmentally responsible driving by providing real-time information and services to help users optimize their journeys. With Time-to-Green-Light service Kapsch TrafficAssist provides drivers with estimated time remaining until a traffic light turns green at an intersection. GLOSA (Green Light Optimal Speed Advisory) feature provides optimal speed recommendations to help drivers catch the green light, reducing stops and starts. as changing lanes or slowing down.

Extended list of technical features*

Standard compliance

- EU / AUS C-ITS protocols
- US IEEE / SAE WAVE protocols

Mobile Operating System

- Apple iOS operating system
- Google Android operating system

Development Platforms

- iOS: Xcode with Swift
- Android: Android Studio with Kotlin

Normative Guidelines

- Adherence to Apple Human Interface Guidelines for iOS
- Adherence to Material Design Guidelines for Android
- Compliance with App Store and Google Play Store policies

Compatibilities

- iOS: Ensure compatibility with various iPhone and iPad models and different iOS versions
- Android: Support for a wide range of Android devices with different screen sizes, resolutions, and versions

User Interface (UI) and User Experience (UX)

- Compatible design for various screen sizes and orientations.
- Platform-native driven UI components and layouts.
- Zero user interaction requirement while driving.
- Text-To-Speech feature
- Acoustic notification feature

Device Features

- Access and utilize device-specific features like GPS, sensors, speaker, etc..
- Zero user interaction requirement while driving.
- Text-To-Speech feature.
- Acoustic notification feature.
- Up-to-date information on traffic conditions
- Flexible area of interest
- Personalization of presented traffic events

Security

- Implement secure practices to protect against common vulnerabilities

Testing

- Conduct extensive testing on different devices, screen sizes, and OS versions

Analytics

- Integration of analytics tools for in-app user behavior analysis
- Use Kapsch TrafficAssist-specific analytics for traffic-related user behavior analytics

Localization

- Support multiple languages and regions on both platforms

Backend Integration

- Integrate with KTC's backends and mobility data platform services.
- Handle data synchronization and offline capabilities.

Legal and Privacy Compliance

- Ensure compliance with GDPR and CCPA
- Include privacy policies and terms of service

*This list is not exhaustive and the specific requirements may vary based on the app's functionality and purpose. Additionally, staying updated with the latest platform changes and best practices is essential for successful app development

Kapsch TrafficCom

Kapsch TrafficCom is a globally renowned provider of transportation solutions for sustainable mobility with successful projects in more than 50 countries. Innovative solutions in the application fields of tolling, tolling services, traffic management and demand management contribute to a healthy world without congestion.

With one-stop-shop solutions, the company covers the entire value chain of customers, from components to design and implementation to the operation of systems.

Kapsch TrafficCom, headquartered in Vienna, has subsidiaries and branches in more than 25 countries and is listed in the Prime Market segment of the Vienna Stock Exchange (ticker symbol: KTCG). In its 2022/23 financial year, about 4,000 employees generated revenues of EUR 553 million.

>>> www.kapsch.net