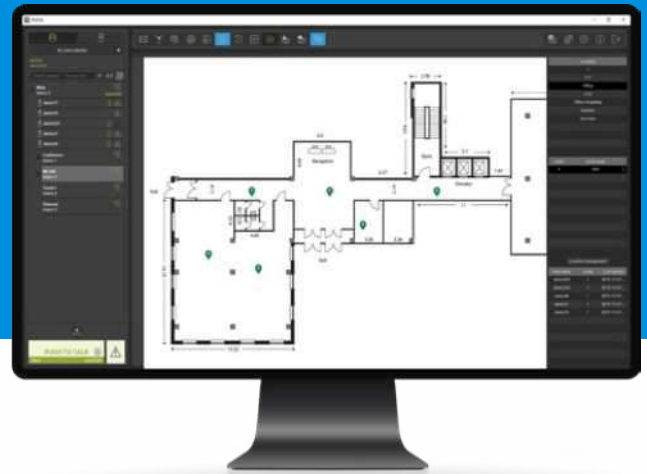




INDOOR LOCALIZATION



BENEFITS

- Continuous collection of information about the location of personnel in high-rise buildings and underground structures.
- Locations of staff members are displayed on the map of a building in real time.
- One-meter accuracy for locations.
- Built-in measurement and training system.
- Detailed maps of structures, zones, individual buildings and building floors.
- Supported by both types of client: T.Flex and T.Rodon.
- Integration of emergency calls.
- Deployment of the system in the shortest possible time.

TECHNOLOGY

An important complement and an alternative to GPS, indoor localization lets you pinpoint the locations of users inside buildings and underground structures. Unlike GPS, it doesn't provide global coverage, but can be more accurate, efficient, and adaptive to local environments such as airports, metro stations, tunnels, and other indoor areas.

Technologies used in indoor localization help you track users even in places where the GPS signal is completely absent. Fingerprinting is the best-known approach to solving these problems.

GPS positioning is based on signals sent by satellites. The more satellites the GPS receiver can find, the higher the accuracy. In a similar way to GPS satellites, fingerprinting requires WLAN hotspots, access points and Bluetooth beacons.

Classic TASSTA indoor localization is based on location fingerprints of existing environments – a database of

measured signals from wireless LAN access points (WLAN) or Bluetooth beacons scattered about the location.

Using the TASSTA implementation of fingerprinting technology lets you determine the position of one person or an entire group with one-meter accuracy. Moreover, the built-in tools of TASSTA clients help you deploy indoor navigation on the premises in the shortest time possible. Today, the classic TASSTA solution is in use in many industries and by various enterprises.

For customers who cannot or prefer not to rely on fingerprinting, TASSTA also offers alternative indoor localization methods: technology provided by Insoft and simplified indoor positioning based on fixed beacons.



Increases safety



Reduces costs due to optimized coordination



Helps to avoid collisions and road accidents



Increases efficiency



Optimizes process of interaction among personnel and vehicle crews



Reduces the number of accidents and production risks



The ability to locate personnel and movable objects within buildings and structures helps optimize your existing production processes and make work more secure. Along with public GPS, indoor localization is actively used in warehouses, factories, logistics companies, airports, railway stations, hospitals, fairs and museums.

What's more, indoor localization can be an excellent addition to systems for various purposes, and the transfer of position data to the control desk (T.Rodon) achieves centralization and increases work safety.

TASSTA indoor localization helps solve production problems at various levels of complexity – from fully automated localization of cargo pallets to the localization of mobile operating terminals. Deployment of TASSTA solutions at the enterprise increases employees' efficiency and coordination, and improves their interaction.