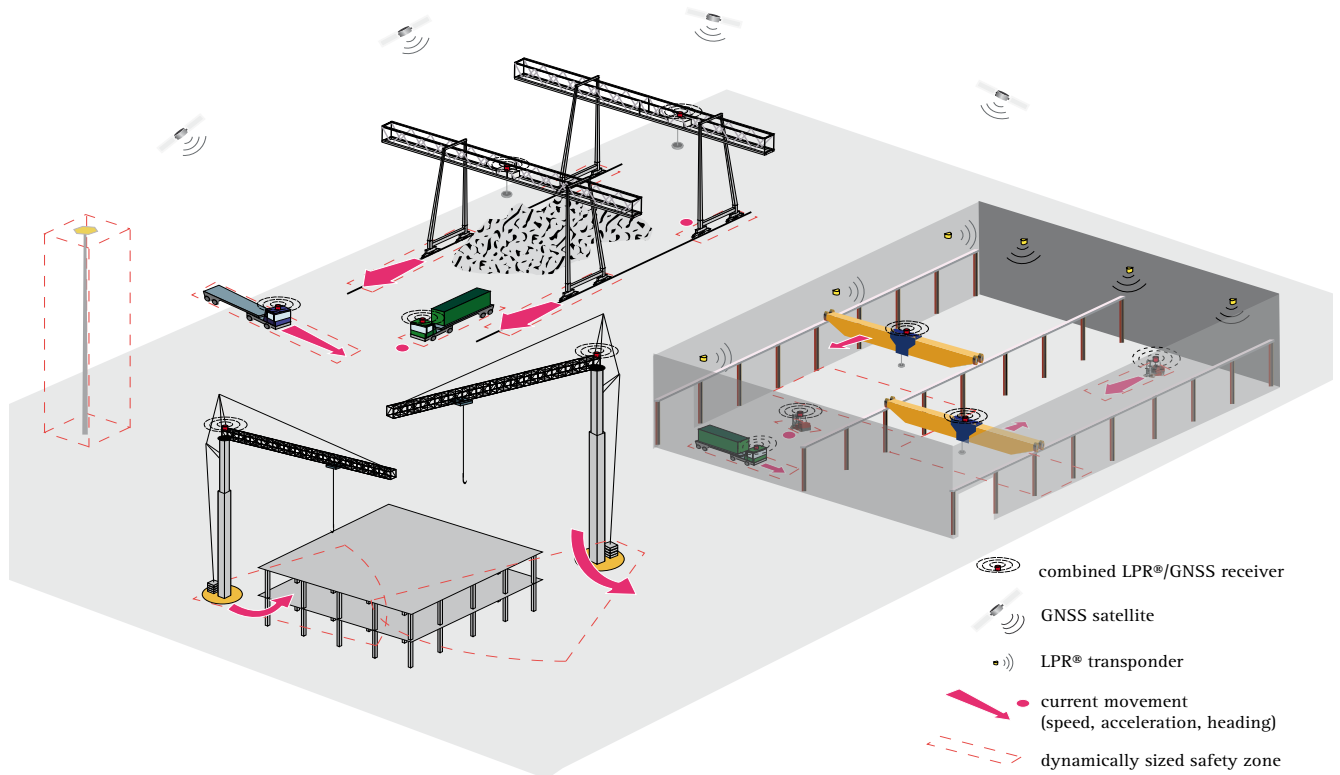


Embedded Software 3D-AntiColl



Embedded Software 3D-AntiColl

Indoor and Outdoor Collision Prevention for Moving and Non-Moving Objects

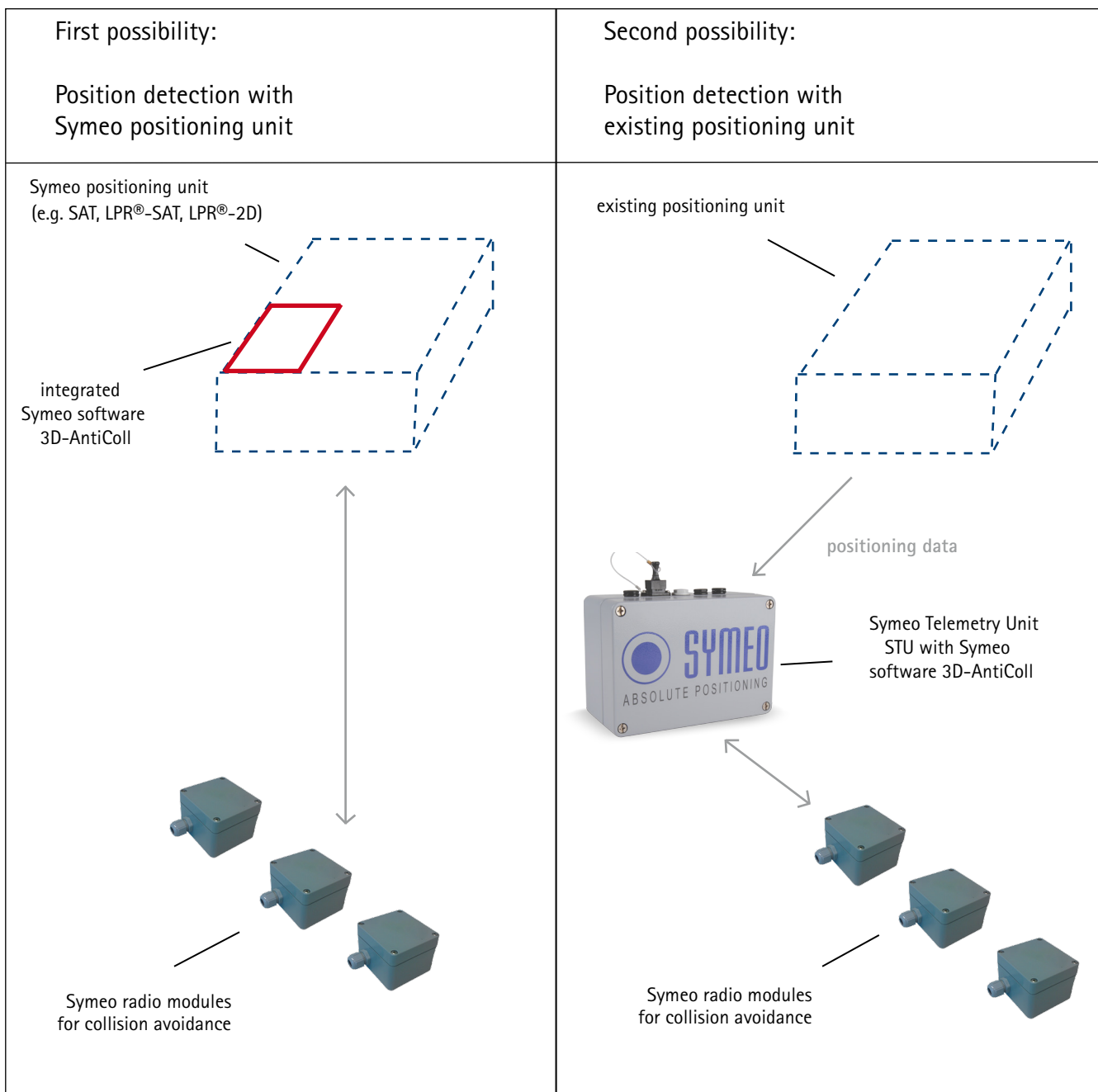
- Suitable for all types of cranes and free moving objects
- WiFi-independent
- 3D-realtime visualization
- No central control unit
- Easy retrofit for all types of vehicles and cranes
- Maintenance-free

Symeo 3D-AntiColl is a flexible and configurable anti-collision assistance system suitable for any type of moving object. The software makes it easy to configure triggers for creating warning and stop signals. Using the position and orientation measurements and current speed of the objects, the system dynamically determines the size and dimension of the required safety zones. This information is continually broadcasted by all of the system participants, which can thus also receive notifications regarding the movement of the other objects.

Each object compares the external movement data with its own position and dimensions of the safety zone in order to calculate and activate a collision warning if needed. Warning messages that include the position and movement vector can be shown on a display. Collision objects can also be stationary objects, such as buildings.

The software operates in a completely decentralized environment. As an option, the configuration, visualization and logging of the measurement data can be accomplished using a central AntiColl server.

In order to take advantage of the 3D-AntiColl software, the positioning can be carried out by using an existing positioning solution or by using Symeo positioning units. For collision avoidance, the positioning solutions will be combined with Symeo radio modules for the broadcast messages.



Technical Data: Embedded Software 3D-AntiColl	
Number of objects	unlimited
Number of virtual security zones	unlimited
Number of individual controlled relays	4
Dimension of warning/stopping distances	size free configurable
Real-time operation	yes
Parameterization	no programming skills necessary
System operation monitoring (communication and position)	Symeo AntiColl controls and checks position integrity
Position detection	LPR®/GNSS or external devices
Monitoring	optionally on the PC, Ethernet interface