SICK.COM

PRODUCT OVERVIEW

Coriva System

Localization systems

SICK Sensor Intelligence

LOCALIZATION SYSTEMS

Coriva System

omlox-certified localization, tracking, and management of assets

The Coriva System is a real-time localization system (RTLS) for industrial applications based on ultra-wideband. It determines the exact position of assets such as vehicles, workpieces, materials, etc. in real time. The recorded position data is used for seamless tracking and tracing of assets, thereby enabling continuous monitoring of goods movements and material flows. The system consists of mobile UWB tags (CorivaTag) that are located, and a permanently installed infrastructure (CorivaSat) in the location area. The software (CorivaEngine) calculates the positions of the mobile devices. The recorded position data can be forwarded to an omlox hub via standardized interfaces. The Coriva System is omlox-certified and thus supports the world's first open standard for industrial localization systems.

Coriva System AT A GLANCE

BENEFITS

- Seamless real-time overview of the location and movement of vehicles, workpieces, tools and materials.
- Reduced search times, losses and mix-ups thanks to clear identification and localization of assets.
- Automated and optimized processes, for example through automated posting of material movements.
- High process transparency for audits and supervisory authorities.
- Certification according to the omlox standard ensures flexibility and compatibility.

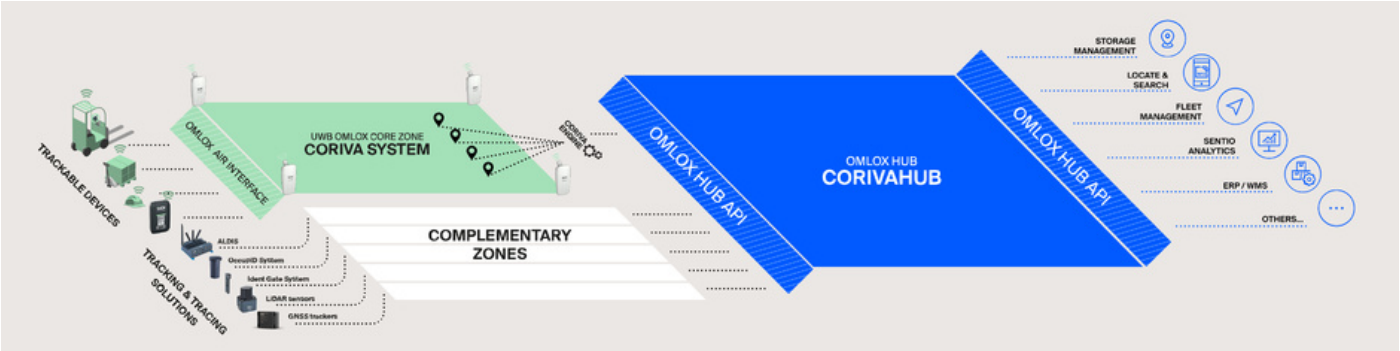
FEATURES

- Flexible, scalable localization system for recording the position and condition data of assets
- High positioning accuracy and precision thanks to UWB technology
- Seamless integration into existing omlox infrastructures and interoperability with other omlox-certified devices
- Probabilistic localization thanks to advanced algorithms of the CorivaEngine
- Provision of position data via standardized interfaces to one or more omlox hubs
- Easy integration into existing IT and IoT infrastructures (K8s/K3s, Edge, Azure, AWS, OpenShift)

TECHNICAL DATA OVERVIEW

omlox certified	Yes
Housing material	ASA Polycarbonate
Enclosure rating	IP20 IP67
Application	Object localization

REAL-TIME LOCALIZATION ACCORDING TO THE OMLOX STANDARD WITH CORIVA SYSTEM AND CORIVAHUB



Open, interoperable UWB-RTLS solution for precise tracking and flexible technology integration

Coriva System is an industrial-grade real-time location system (RTLS) with ultra-wideband (UWB) that offers high precision, accuracy, scalability and interoperability. It is based on the omlox open locating standard and is certified according to this standard, including the air interface and hub specifications. As a result, there is no technology lock-in effect. The Coriva System consists of the UWB Core Zone, which is spanned by CorivaSats for locating CorivaTags. CorivaSats capture the UWB signals from objects equipped with CorivaTags and process them via the powerful CorivaEngine, which sends the positions to the CorivaHub. The software can be operated on-premise or in the cloud. Thanks to the complementary zones of the omlox standard, position data from various technologies – such as RFID, GNSS, WPAN or LiDAR – can be seamlessly integrated via the CorivaHub. SICK offers a wide range of compatible products for this purpose. The collected data is processed centrally in the CorivaHub and transferred to a standardized coordinate system. This creates a flexible, open-technology platform for precise asset tracking and smart industrial and business applications such as warehouse or fleet management.

Select the right product variant and accessories directly online. There you will also find example applications as well as downloads such as CAD dimensional models, operating instructions and software.
www.sick.com/Coriva_System

SICK AG
WALDKIRCH
GERMANY
SICK.COM

SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnership with our customers is more than just a promise: Together, we optimize productivity, elevate quality, protect health and safety, and sustain the future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions.

SICK

Sensor Intelligence