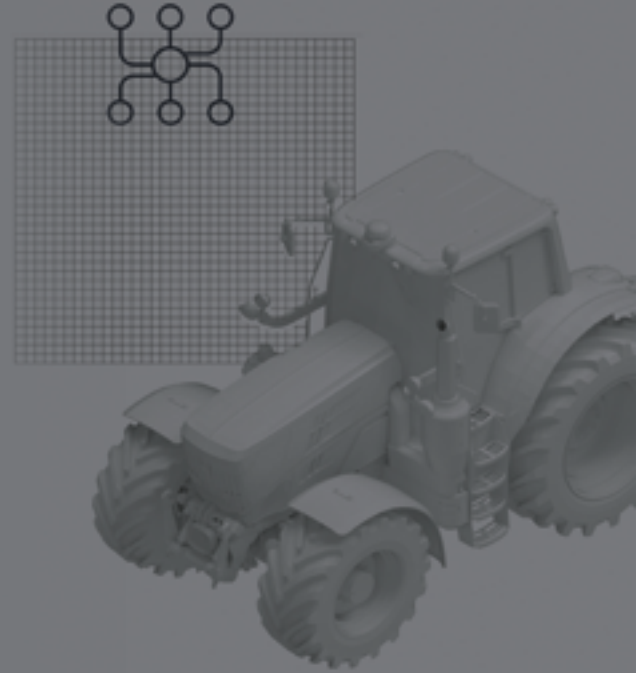# Isobus Stack

Product outlook

Since 2008, **RE:Lab** offers its **ISOBUS Stack** software as a library to be integrated on the Clients' hardware, be it already existing or new, thus enabling the Client's product to ISOBUS development and guaranteeing an immediate and transparent update in case of normative amendments.

Data Sheet

- **ISOBUS Stack** API is a software library developed in C, and can be integrated in C and/or C++ Client's projects.

- It is independent from the hardware platform, supporting all microcontrollers architectures and endianness Little/Big endian.

- It can be integrated with Client's CAN driver e/o operating system (e.g.: Linux, FreeRTOS).

- It is implemented according to Software Requirement Levels (SRL 1).

- Compatible with all commercial tools for ISOBUS object pools development (e.g.: DLG pConvert, ISO Designer, VT designer).

- It can be customized according to the Client required AEF functionalities.

Details description/Use case

The **ISOBUS Stack** is sold to Clients as a closed library, after a custom porting activity has been carried out.

The porting activity consists of the following steps:

1 - **ISOBUS Stack** source code is compiled as a library, using the Client's toolchain;

2 - CAN device driver is developed and/or integrated;

3 - An example application is developed and integrated, then provided as source code;

4 - A validation test is carried out, using example application on the Client's platform to ensure ISOBUS Stack porting quality

The ISOBUS Stack library, the API documentation and the example application source code are shared with the Client.

RE:Lab was the first **ISOBUS Stack** supplier to integrate the Tractior Implement Management (TIM) technology, in the framework of AEF PT05 -ISOBUS Group. RE:Lab's **ISOBUS Stack** allows developers to quickly integrate the communication and integration of server and client devices and is currently adopted by several world-class OEMs.

RE:Lab is an Italian SME with 15 years of experience in Human Machine Interface and agriculture technologies. With its 90 strong team of highly skilled employees, **RE:Lab** has developed an ISOBUS stacks now integrated by many OEMs worldwide. It has created highly appreciated advanced HMI for on-vehicle terminals prioritising usability. **RE:Lab** developed IoT applications for the agricultural, making possible to remotely control tractor's functions.