ISOBUS technology

SERIAL NETWORK FOR CONTROL AND COMMUNICATION
Each electronic tool had its management viewer

Comunication between tractors and implements yesterday
Comunication between tractors and implements yesterday

This was the result in the cabin
The market needs

Only one display in the cabin
The market needs

The viewer recognizes each implement
The market needs

Plug and play system
The market needs

Precision farming
What is ISOBUS

Universal protocol between implements, tractors, and computers.
Farmers often use tractors from one brand with implements from another supplier.
Why ISOBUS

Greater profitability of agricultural processing
Great attention to the environment and the use of natural resources
ISO 11783 “Tractors and machinery for agriculture and forestry

ISOBUS standardize

Infrastructure

Applications
AEF is an association created by the main tractor and tractor implements manufacturer that aims to spread ISOBUS applications.
COBO is an AEF member and is registered with its unique manufacturer id 410
AEF certified ECUs and Virtual Terminal can be published in the AEF web page under the manufacturer logo.
AEF – ISOBUS certification

AEF organizes two technical meetings every year.

Test sessions allow to physically test the compatibility between different manufacturer devices.
COBO - components AEF certified
Network topology

Implement BUS (ISOBUS)

Implement ECU
Implement sub network

Electronic Engine
Tractor BUS

TECU
IBBC
Hitch
UT
ECU
TECU – Tractor electronic control unit

Gateway between the bus tractor and the ISOBUS circuit
It provides the human to machine interface

It enables interaction between the operator and the machine
IECU – Implement electronic control unit

It is the device that manage the implement

It allows the communication with the universal terminal
Task controller

Software service divided in **TC Server** and **TC Client** to perform functions
Projects developed by COBO

Seed Drill ISOBUS

Precision Drill ISOBUS
Projects developed by COBO

Harvester Machine with universal terminal ISOBUS