



IO-Link : The industrial communication standard



.AGORIA

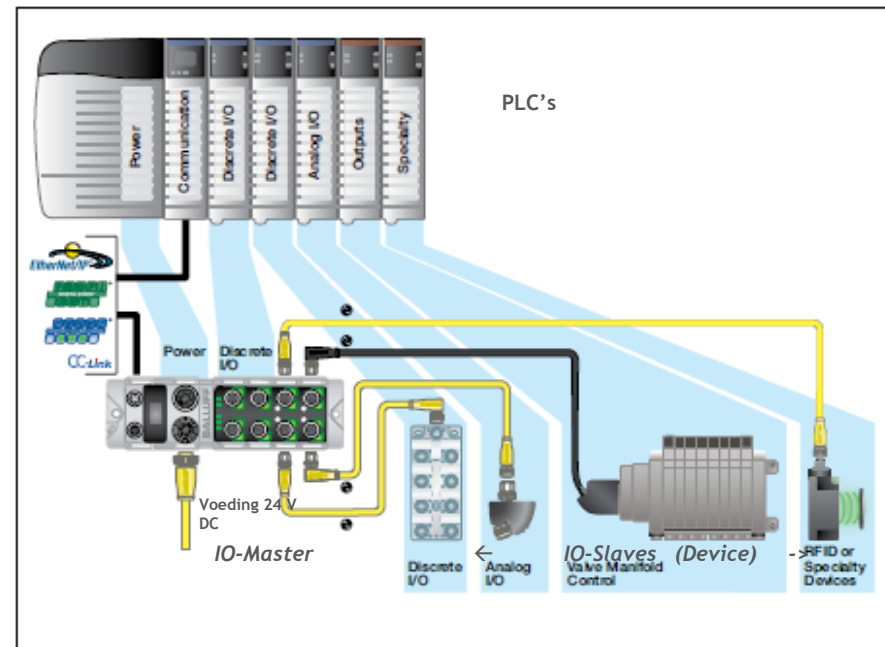




IO-Link = communication-interface

IO-Link is a point-to-point industrial communication interface for sensors/actuators:

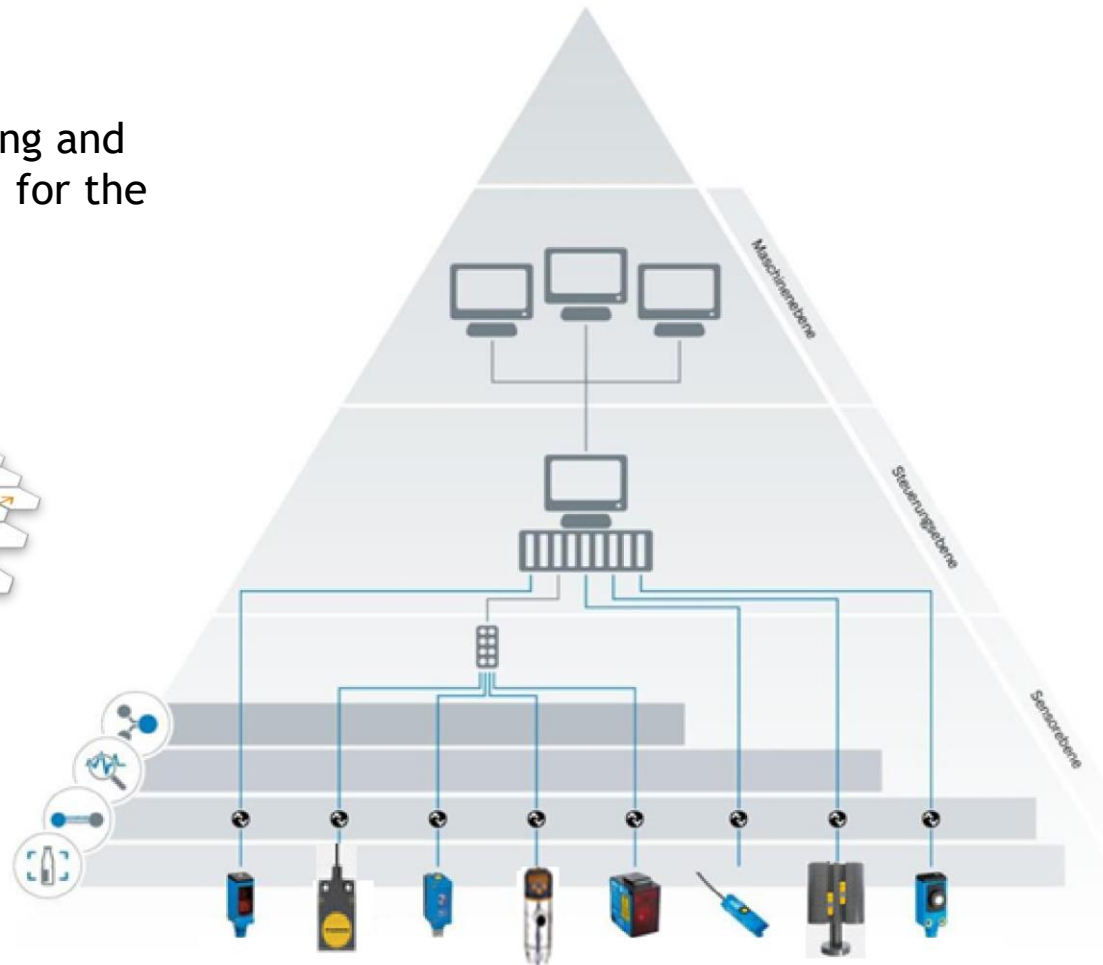
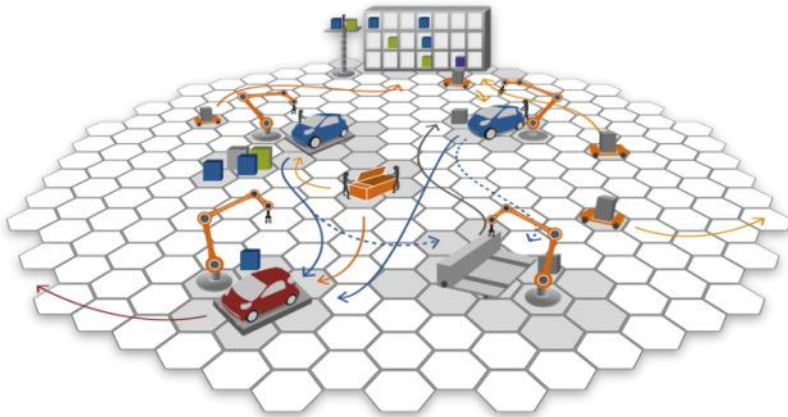
1. IO-Link is normalized: IEC-61131-9
2. IO-Link enables the exchange of:
 - process data (measurements),
 - diagnostic data (status),
 - parameters (configuration).





IO-Link is the base for industry 4.0

- Industry 4.0 is based on collecting and sharing high quality information for the processes

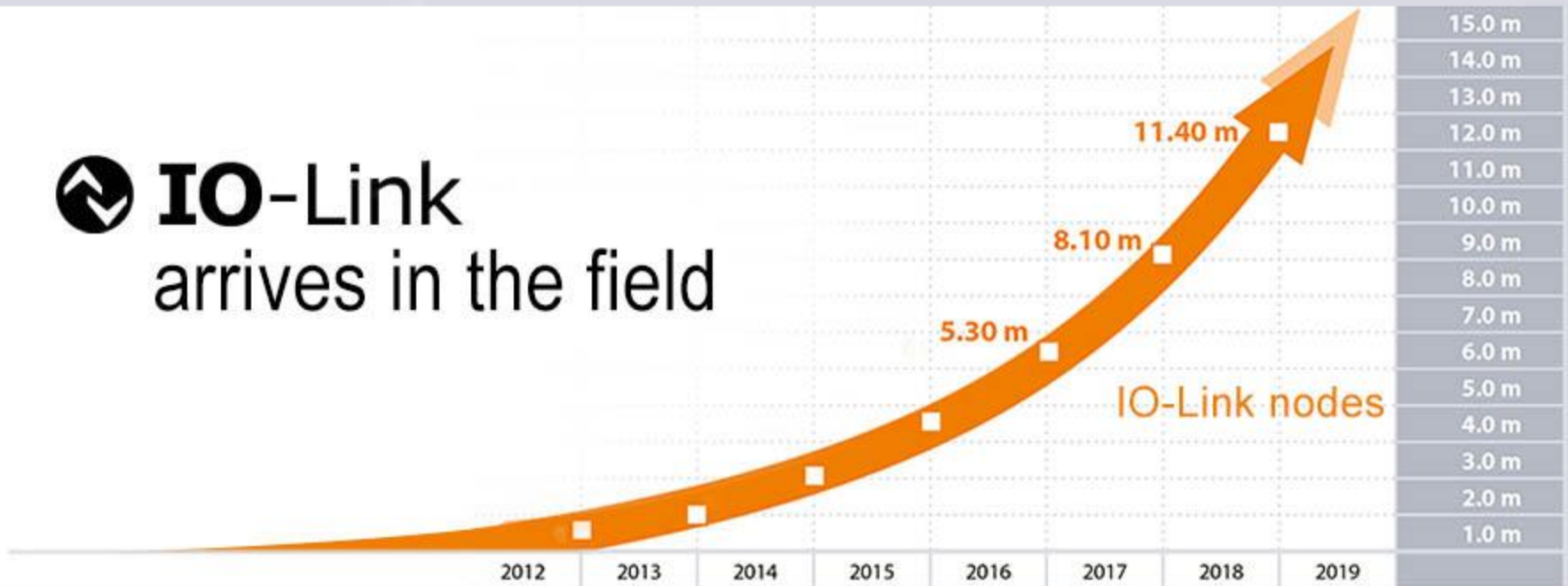


IO-Link vormt de basis van de automatiseringspiramide



Evolution “IO-Link nodes”

 **IO-Link**
arrives in the field



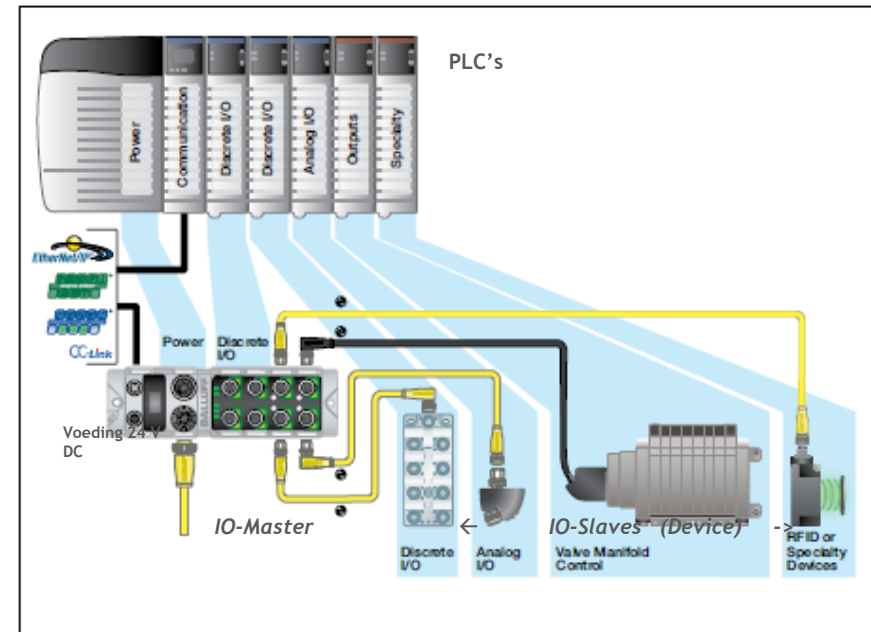


IO-Link - sensor information to the highest level

IO-Link

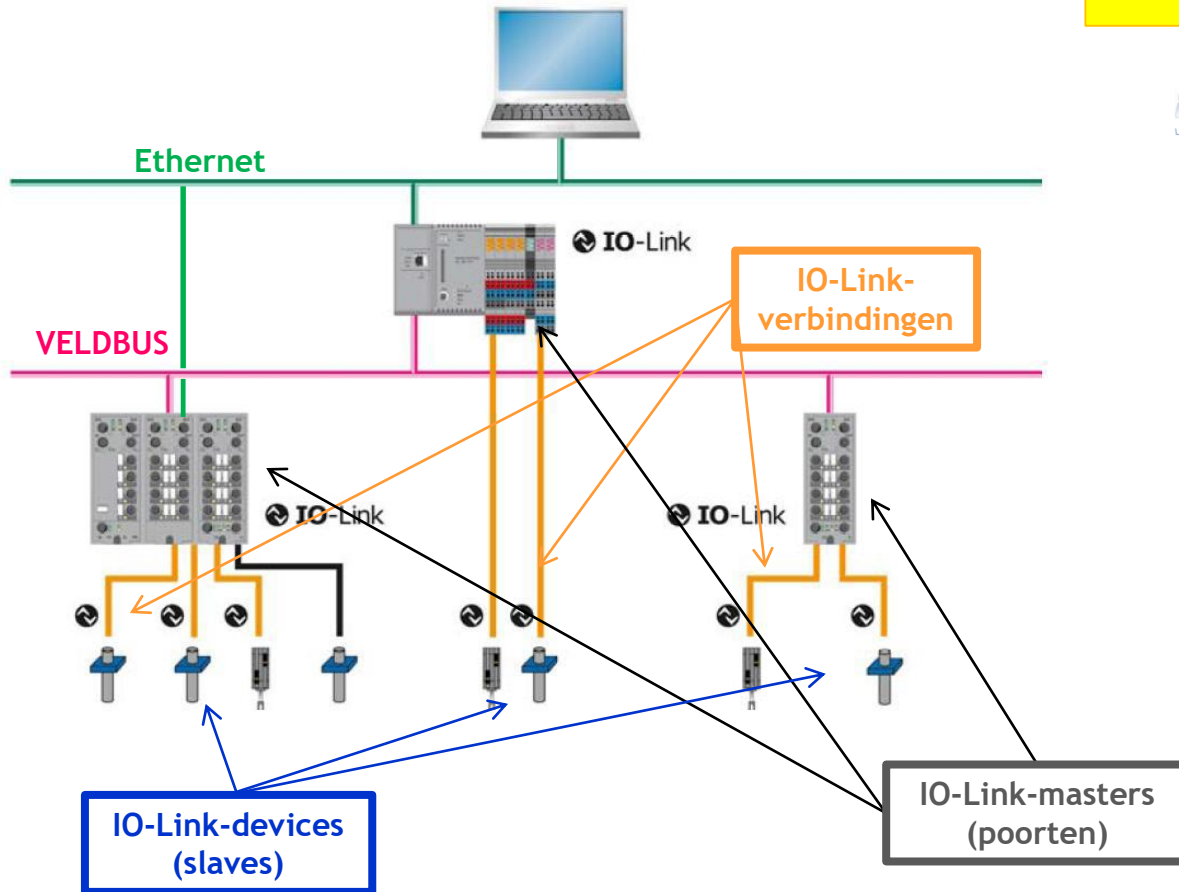
IO-Link is a point-to-point industrial communication interface for sensors/actuators:

1. **The master** manages communication with the I/Os and acts as a gateway to a PLC, a fieldbus or Ethernet.
2. **The device, slave, performs an I/O function** (analog or digital) and communicates its data to the master.
3. The connection is made with **a simple 3 (up to 5)-core cable** with a length of max. 20 m.



IO-Link Components used

**IO-Link
is independent
of the fieldbus used**



IO-Link components:

- **IO-Link device (slave)**
(sensor/actuator or other device specified in specification IEC 61131-9)
- **IO-Link connected by**
(one 3/4/5 wire communication cable, unshielded, max. 20 m, with M12/M8/M5 connector according to standard IEC 60947-5-2)
- **IO-Link master**
(e.g. an I/O module on the circuit breaker or remote, a gateway type ProfiNet-IO-Link ...)

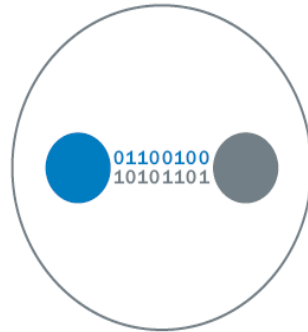


Advantages of IO-Link



Enhanced Sensing

Added-value during detection



Efficient Communication

Efficient communication and saving on cabling



Diagnostics

Efficient process diagnose



Smart Tasks

Remote intelligence

The consortium IO-Link

- The IO-Link consortium includes dozens of companies
- The IO-Link consortium is working on future extensions, marketing strategy, field integration ...
- IO-Link has become an international standard: IEC 61131-9





IO-Link Group Belgium

- A group developed under the auspices of AGORIA
- Competition and Cooperation: “coopetition”
- A common goal: to promote IO-Link technology aimed at all Belgian and Luxembourg industries

IO-Link GROUP BELGIUM

