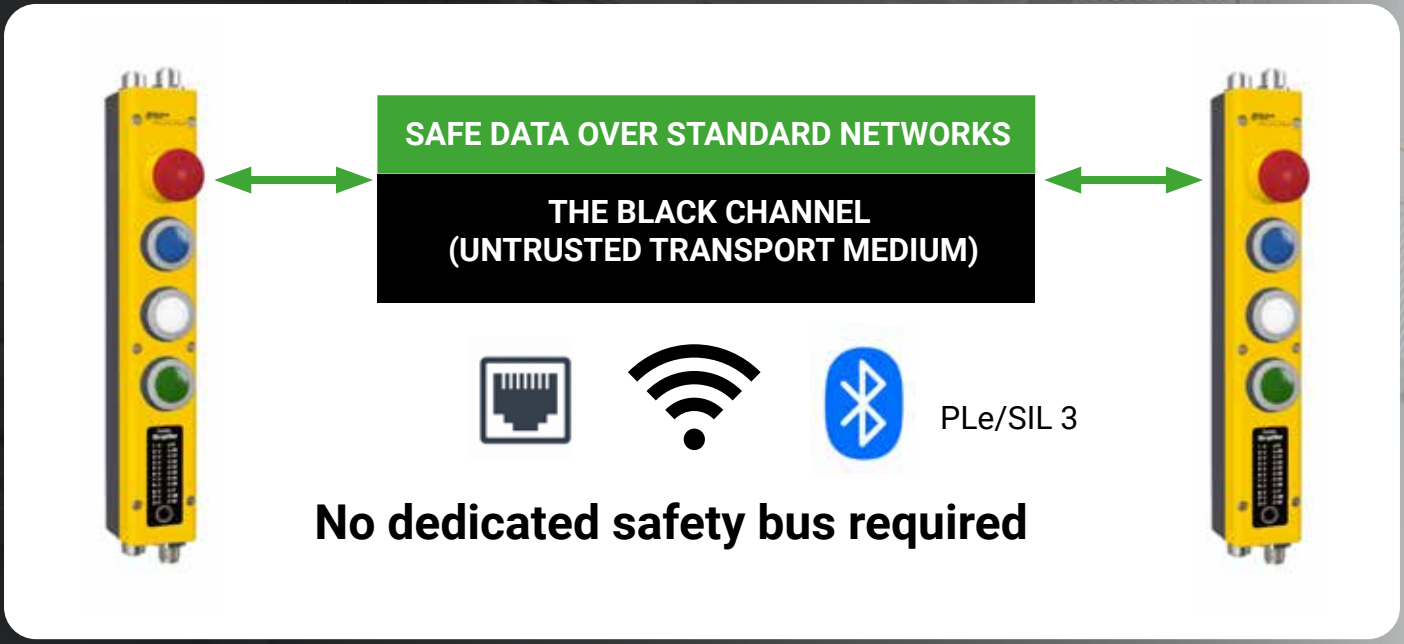
BLACK CHANNEL SAFETY

Network-independent safety communication

Use your existing infrastructure to exchange safety data between safety systems



Safety Simplifier gives you the flexibility to build a complete safety system.

SSP

www.sspn.se

What is Black Channel?

With Black Channel, the safety protocol ensures the integrity of safety data independently of the network that carries it.

- Safety data is transmitted over standard networks
- The communication channel is treated as untrusted
- Safety Simplifier detects and handles communication errors

SAFE DATA OVER STANDARD NETWORKS

THE BLACK CHANNEL (UNTRUSTED TRANSPORT MEDIUM)



Ethernet, 5G mobile, Bluetooth and more

→ **Functional safety across different communication technologies**

Customer project

- Centralised emergency stop function
- Safety communication between mobile units
- Communication between Safety Simplifier units over an existing network



Illustrative example

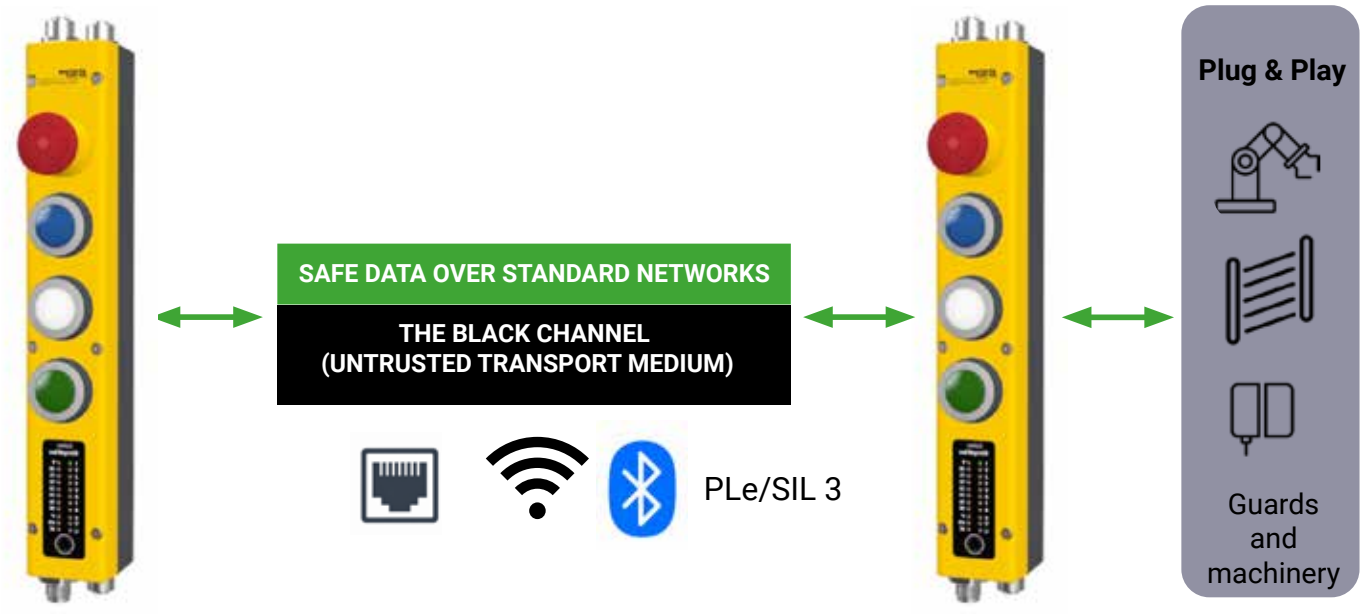
Need a tailored solution?

We work closely with selected customers to develop solutions for their applications.

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Use what you already have

Add safety communication between Safety Simplifier units over your existing production network. No separate network is required.



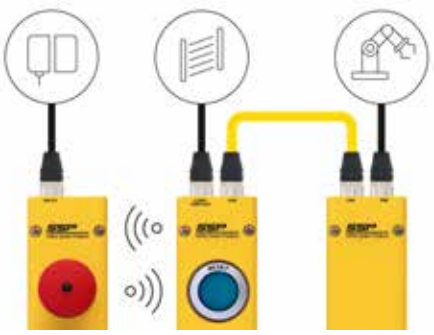
→ Same infrastructure -new safety capabilities

A flexible system

Choose the communication option that suits your application. Black Channel is one of several options.



- Safety Simplifier units support wireless and CAN bus communication as standard. Both can be used in the same system.
- Integration options include PROFIsafe, EtherCAT and gateways for data exchange.



Connect sensors and machinery to Safety Simplifier units with Plug & Play.

→ Build on your existing system

BLACK CHANNEL IN PRACTICE

PL e / SIL 3 safety communication over existing infrastructure

Centralised or distributed safety systems with Safety Simplifier

Scalable machine safety for complex systems



WE SIMPLIFY SAFETY-
CONTACT US FOR ADVICE AND A QUOTE

Black Channel Safety is ready to deploy

www.sspn.se

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Together with SSP GmbH in Germany, we supply SSP products worldwide.

Subject to change. Errors excepted.
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