Identification – din løftestang til digitalisering

Automatisér dit data-flow
og frigør vigtige ressourcer

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Dagens værter

Per Krogh Christiansen, Technology Specialist

Marc Brændstrup, Technology Specialist

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Agenda

Overblik

Dataopsamling fra produktionsgulvet

Connectivity – udnyt værdien af dine data

Lokalisering – hvad er det?

Interesseorganisationer i Danmark

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From data … … to value

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Optical Identification (OID)

Code reading

Text recognition

Object recognition

Radio Frequency Identification (RFID)

Short range (HF)

Long range (UHF)

We empower our customers around the world to enhance their production and logistics processes in a transparent, flexible and efficient manner through the use of our robust and reliable identification solutions.

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Identification

Competent partner +

More than 30 years of experience in development and implementation of Industrial Identification

High investment reliability +

Making use of open standards and international certifications

Long-term availability of products - perfectly matched and thoroughly tested components

Supreme profitability +

Through a comprehensive and scalable portfolio

Highest reliability +

Components with high protection class for harsh industrial environments

Reduced engineering costs +

Through simple and seamless integration into Automation and IT systems

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Optical Identification Systems – Secure reading and verification of 1D/2D codes, text- and form recognition

Feature / Function	Benefit
• Powerful algorithms for reading codes with low contrast, text and form recognition	• Reliable and fast reading on different surfaces in demanding industrial environments
• One-Button-Configuration for network connection and code reading parametrization	• Simple and easy commissioning also for non-trained personnel • Easy-to-operate
• Electrically adjustable lens focus (E-focus) via software	• Variable distance and flexible settings
• Powerful and flexible controllable built-in ring light and filter	• Fewer set-up errors and increased process reliability
• Additional Gigabit-Ethernet-Interface	• Simple and secure connection to cloud applications

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Reliable and efficient RFID system for demanding industrial Identification

SIMATIC RF200 / RF300 – Product Highlights

Feature / Function	Benefit
• Especially fail-safe data communication with high data security	• Reliable and fast reading in harsh industrial environments
• Maintenance-free transponder with up to 64KByte memory	• Supreme productivity through fast transmission of large data volumes
• MOBY I Schnittstelle für Altsysteme	• Cost efficient migration
• Simple integration via Ident technology object in TIA Portal	• Easy-to-use with minimum programming effort
• Extensive diagnostics function and optical display elements	• Fast and safe optimization of reader-transponder positioning during installation/commissioning

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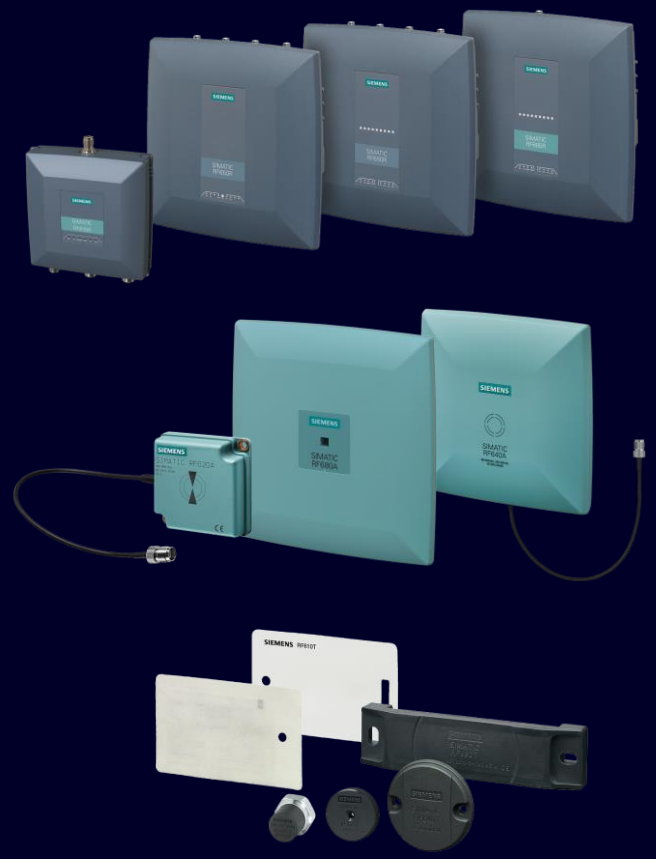
Focused and secure identification – also in harsh radio industrial environments

SIMATIC RF600 – Product Highlights



Feature / Function	Benefit
• Best-in-Class UHF radio module – tried and tested “UHF for Industry” algorithms	• Selective and secure identification in industrial environments with potentially demanding radio interferences
• Scalable portfolio of high-performance UHF readers – now including compact versions	• Products for all demands • Wide range of external antennas for all ambient conditions
• Large selection of labels and tags for industrial applications	• Reliable products for all applications available
• Additional OPC UA Interface on board	• Simple and secure connection to cloud applications
• Proven configuration, commissioning and diagnostic tools via Web browser	• Easy-to-use with minimum programming effort

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Controlled plant and machine access in challenging industrial environments

SIMATIC RF1000R – Product Highlights

Feature / Function	Benefit
• Supports Standards ISO 15693[1)] and ISO 14443 A/B[2)] (MIFARE), Legic Prime, Legic Advant	• Use of existing employee badges possible
• Fully compatible with PM LOGON Basic and Premium	• Simple integration into HMI and PC systems
• Compact design with low mounting depth and flexible cable routing	• Powerful tool for local user administration and central user management • For applications with limited installation space
• High degree of protection (IP65 front) and extended temperature range (-25° to +55° C)	• Use on machines and plants in harsh industrial environments

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Data collection from the production floor

Production and Material Flow Management

- Order-related production control
- Decentralized availability of order data
- Correct sequencing of materials in production process

Asset Management

- Information about inventory and status in real-time
- Optimal utilization of tools and containers
- Error-free identification without any manual intervention

Track & Trace and Supply Chain Management

- Real-time synchronization of real flow of goods and digital world
- Complete transparency along the whole value added chain

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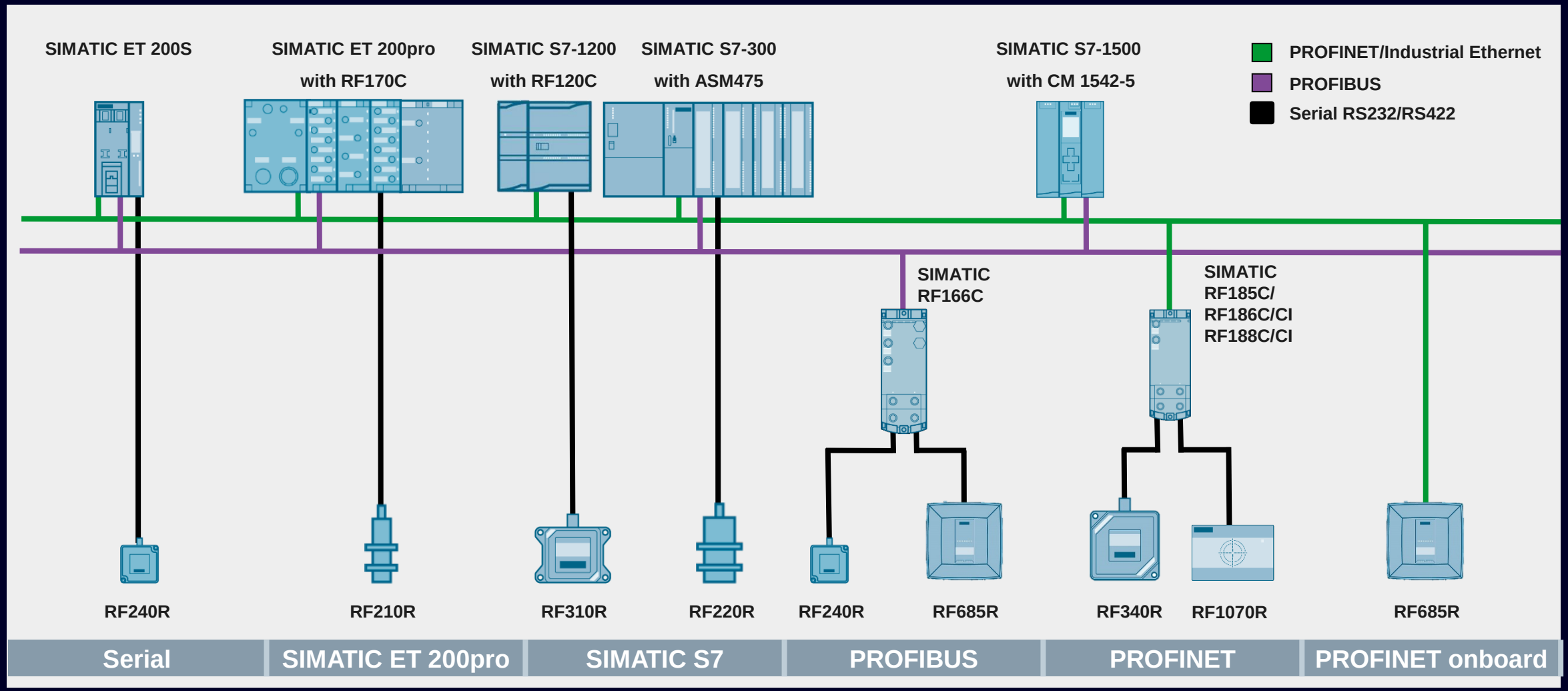
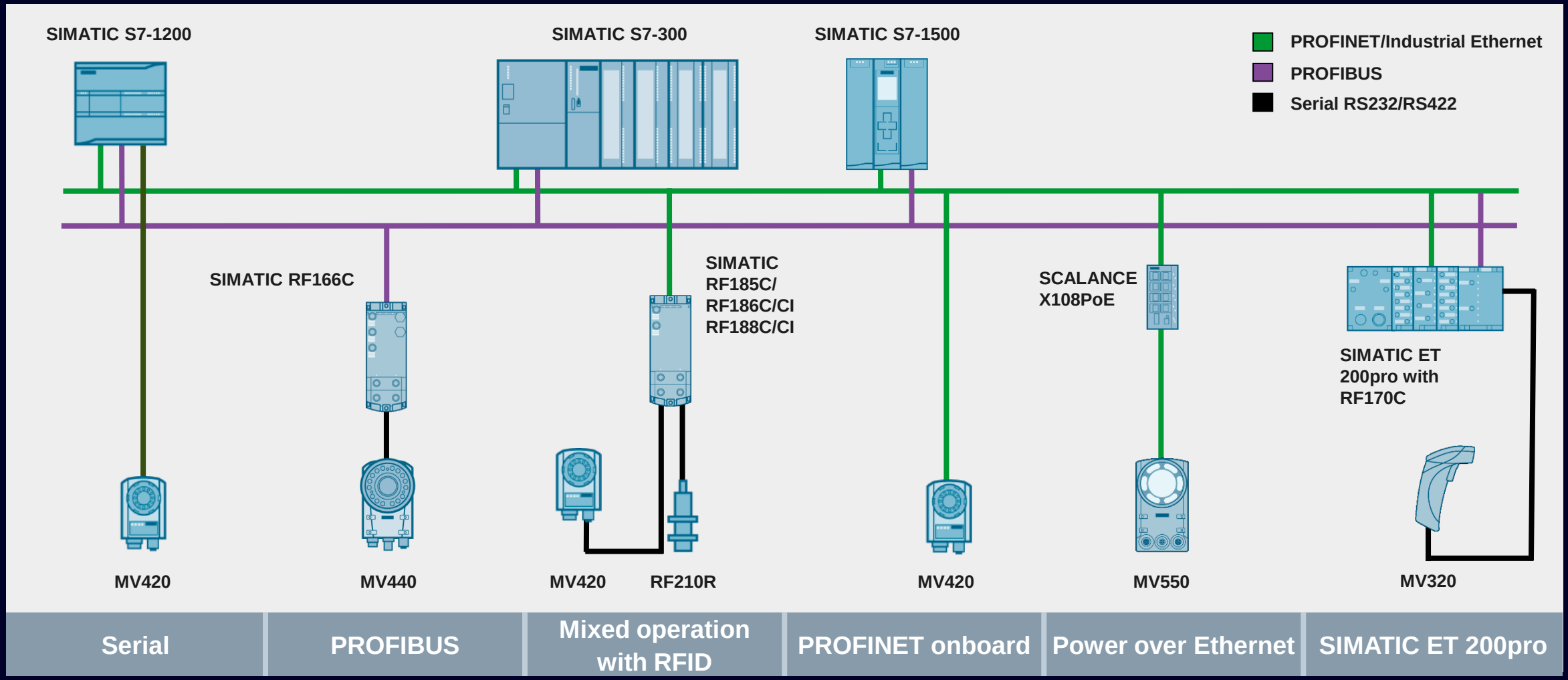
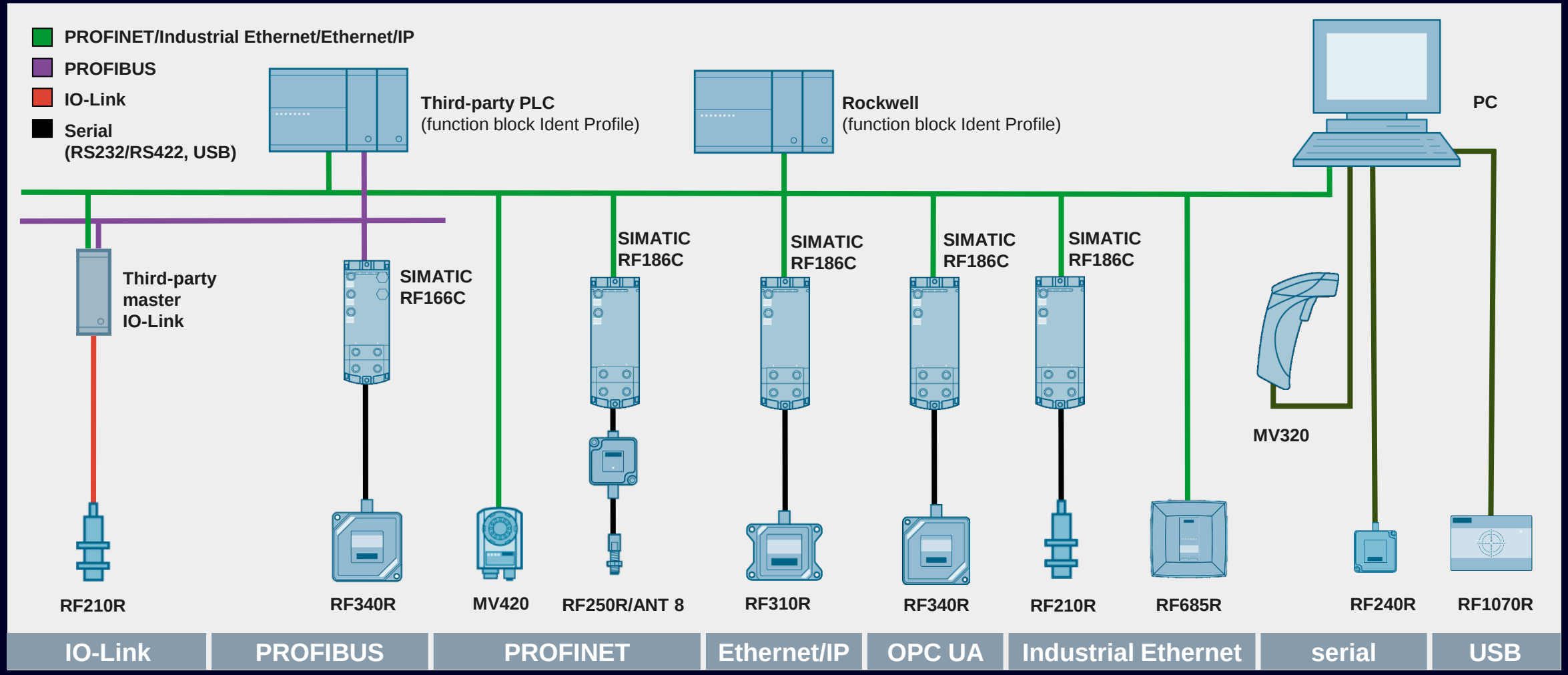
Data collection from the production floor



Data collection from the production floor



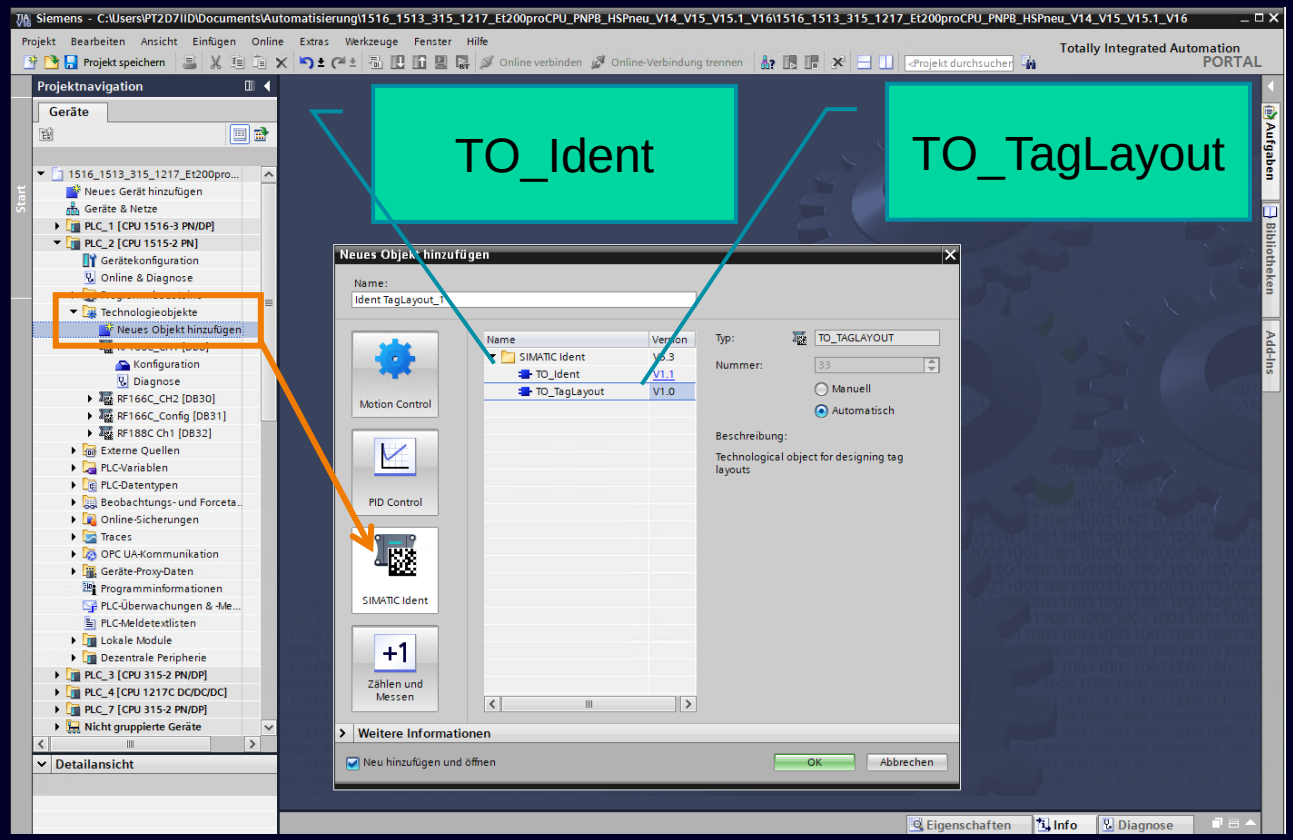
Data collection from the production floor



Integration directly in the production system

Cost and time savings in engineering, commissioning, diagnostics and maintenance thanks to

- Seamless integration into STEP 7 classic and TIA Portal
  - With ready-to-use S7 function blocks
  - User-friendly selection in the hardware configuration
- Easy and fast firmware updates via TIA Portal
- Comprehensive diagnostics concept
- Technology object
  - TO_Ident for address management
  - TO_TagLayout for the addressing of transponders



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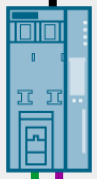
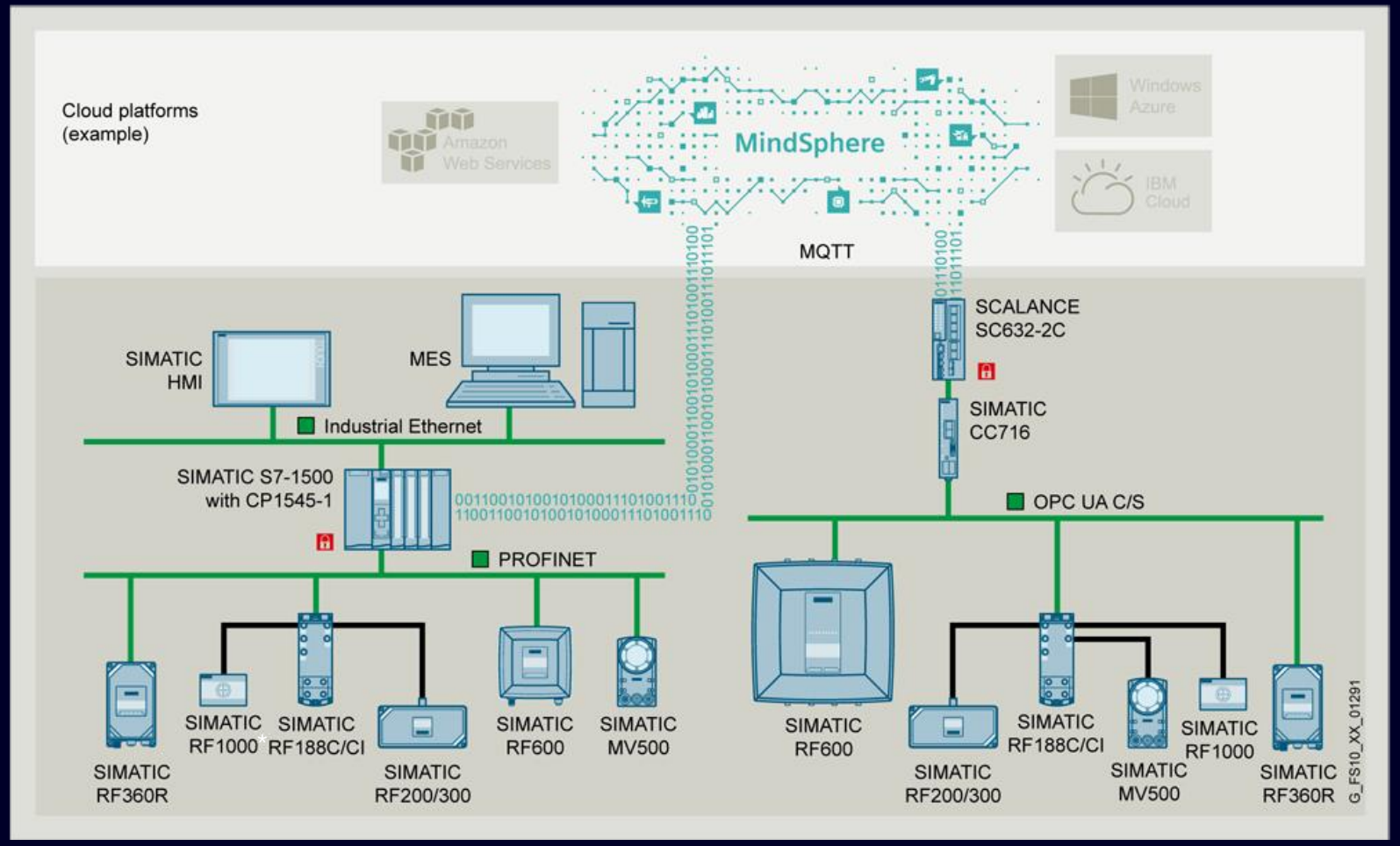
Expanded diagnostic via TIA and Technology objects

PC		Via the diagnostics channel and the I&M functions*, the control console receives an entry in the database from the communication module for each detected fault.
SIMATIC S7		The S7 application receives a detailed error message from the communication module via the function block.
Communication module		LEDs indicate - Correct connection to the SIMATIC and to the reader - Faults occurring on the reader as a flashing pattern
Reader		LEDs indicate locally the function and status of the reader and the tag.

* Identification & Maintenance; published and standardized by PROFIBUS INTERNATIONAL

Integration directly into Cloud systems



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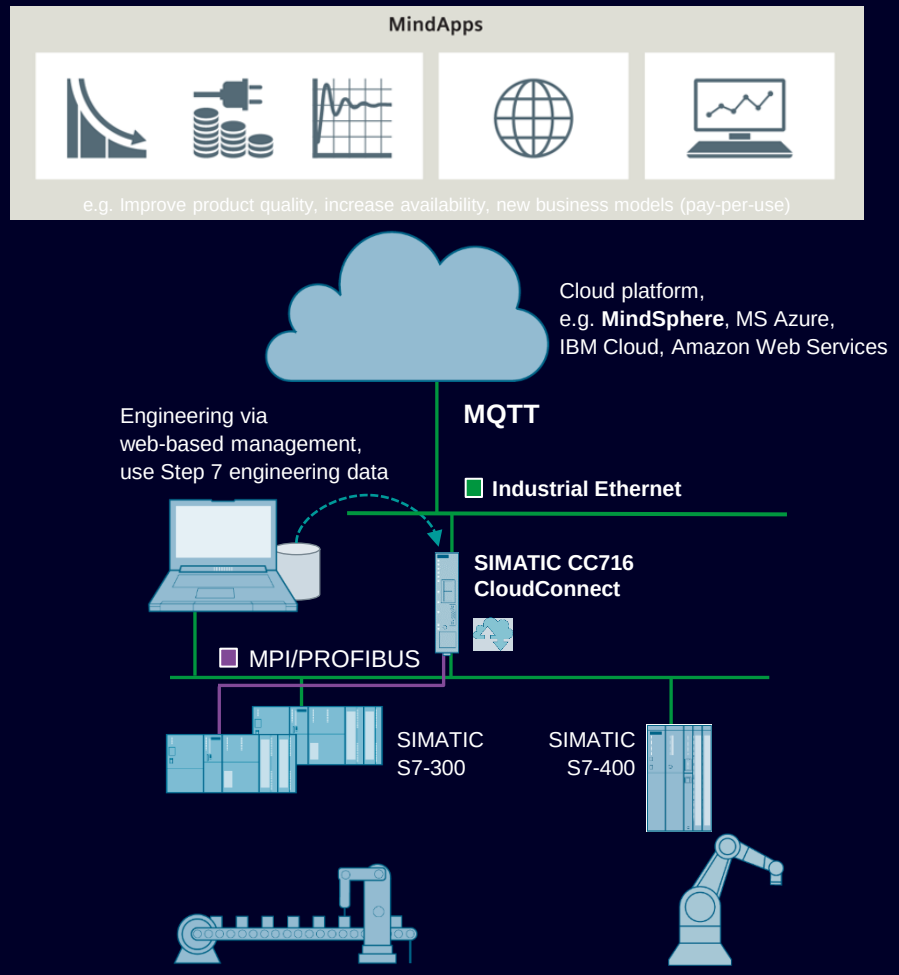
Integration directly into Cloud systems



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Integration directly into Cloud systems

TIA Integrated
SIMATIC CP 1545-1

All benefits of Totally Integrated Automation

Industrial IoT Gateway
SIMATIC CloudConnect 7

Simply connect existing systems to the cloud

RUGGEDCOM Router
RX1400 with CloudConnect

For special environmental conditions

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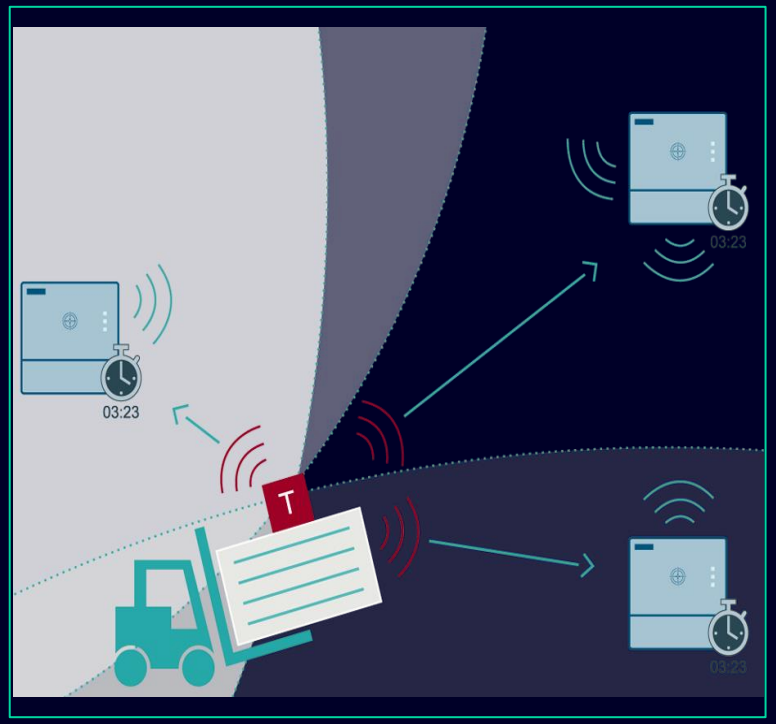
Real Time Locating System (RTLS)

- Triangulation
- Time-based
- 30 cm – 2 meter
- UWB Based
- ISO24730 dataformat



NOT UHF RFID – Contact us for more information

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Implementation help

Fysisk installation, hardware-opsætning og programmering af SIMATIC Identifikationsudstyr

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Standardisering, stregkoder, protokoller:
GS1, UHF EPC Gen2, ISO15693 m.fl.

Vi er medlem af disse organisationer

AIDC DENMARK

https://www.aidc.dk.org/

aim DENMARK

https://www.aimdenmark.dk/

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