

How do I become king in the land of the blind?

Without having insights into the status and quality of the network, you can consider yourself blind.

We open your eyes!



Pietro Benfatti

Focus & About:

- International Reliability Projects
- Sales and Business Development in Italy

Education & Training

- Certified PROFIBUS Engineer
- Certified PROFINET Engineer
- PROFIBUS T&M Certificate
- PROFINET T&M Certificate
- Introduction to Industrial Ethernet Course
- MBA- RSM, Erasmus University
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Agenda

- In the land of the blind
- Challenges with IE
- How to become the King
 - 6 Best practices of an IE architecture
 - The Universe and the Galaxies
 - Preventing Costly Downtimes
- Wrap Up
- Q&A



In The Land Of The Blind

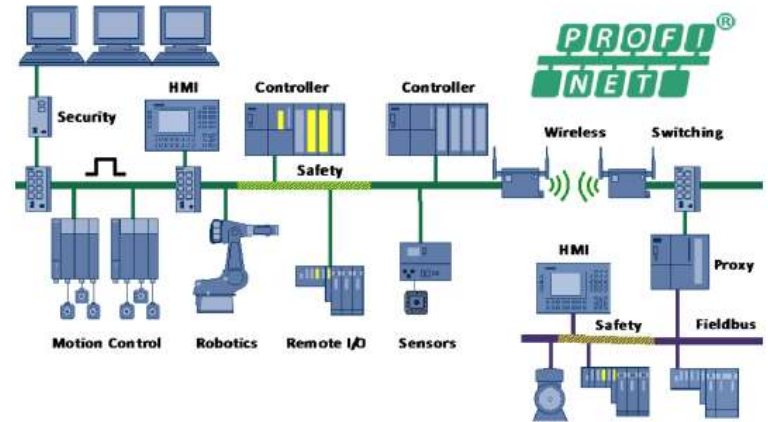


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Industrial Ethernet

Challenges With IE

- More data and faster
- Expanding networks
- Missing network schematics
- PROFINET is NOT PROFIBUS on Ethernet
- Industrial ≠ Office





How To Become The King

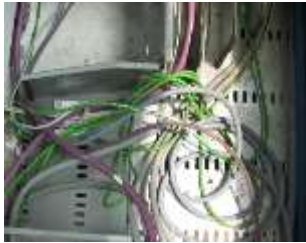


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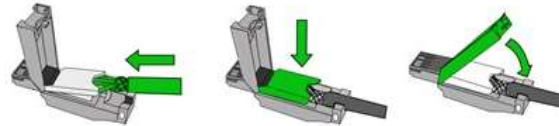
Industrial Ethernet

6 Best Practices Of An IE Architecture

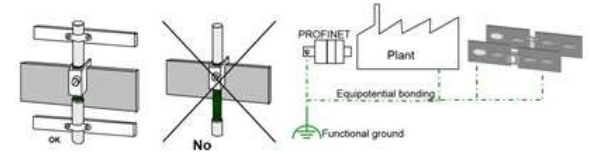
1. Cabling



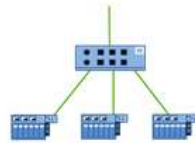
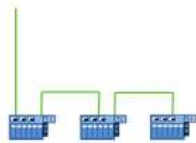
2. Connectors



3. Grounding



4. Managed Switches + QoS



5. Labelling



6. Training



The Universe and the Galaxies

- System complexity will continue to increase
- Integration of multiple protocols and vendors
- Globally accessible, locally customizable

Preventing Costly Downtimes



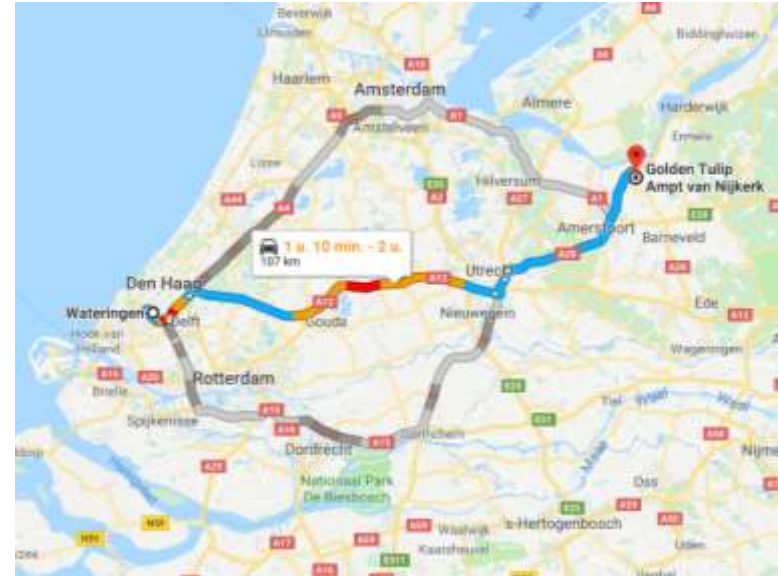
1. During Commissioning

- Check configuration
- Protocol analysis (TAP and Wireshark)
- Protocol guidelines
- Training and experts support



2. During Operation

- Permanent monitoring
- Network overview
 - Connections quality: Namur Icons
 - Device Maintenance
 - Multi protocol, vendor independent
- Alarms and notifications



3. Globally Connected



To Wrap Up

From the land of the blind
To...



PREDICTIVE MAINTENANCE and ROI

Q & A





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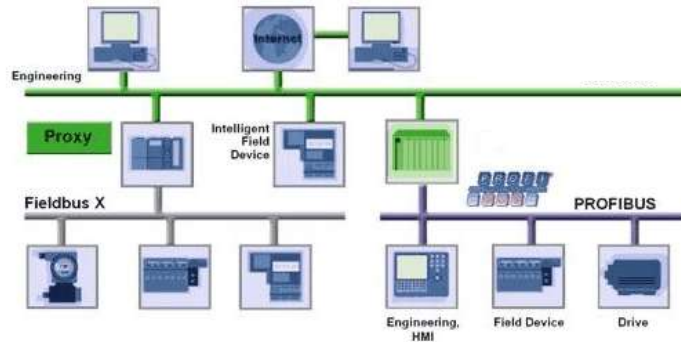
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