### **PROFINET cursus**



### **PROFINET**

Theorie & Praktijk
Engineering & Fout zoeken

24 & 25/04, 2 & 3/05/2017





1

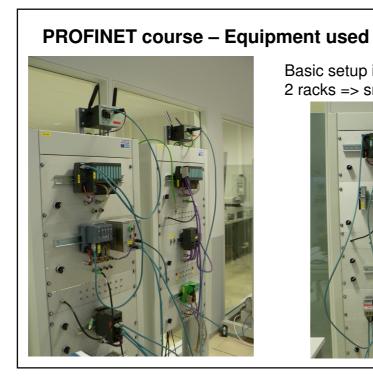
### **PROFINET** course



- In depth 4 day course
- Short theoretical overview as introduction
- Followed by detailed theoretical and practical coverage of most subtopics
- A lot of practical exercises => it's what you make of it!
- You work in groups of 2
- Introducing a lot of measuring techniques for analysis and diagnostics
- Using new laboratory set-ups







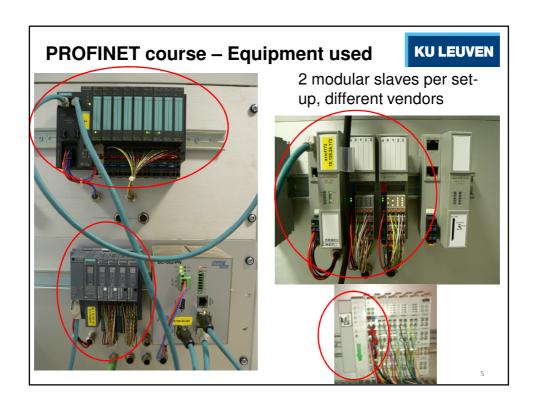
Basic setup is mounted on 2 racks => small footprint

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PROFINET course – Equipment used

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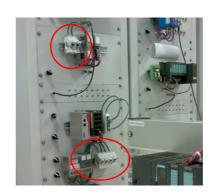


# PROFINET course – Equipment used

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Now mounted using separate sockets for longer lifecycle





# PROFINET course – Equipment used Measure Diagnosi

Measurements, Analysis & Diagnostics: cable testing

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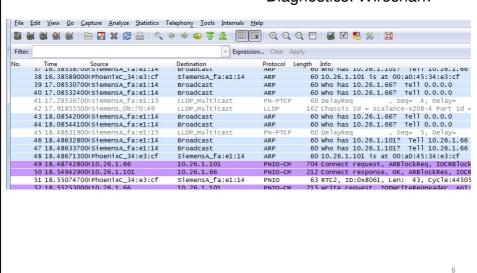


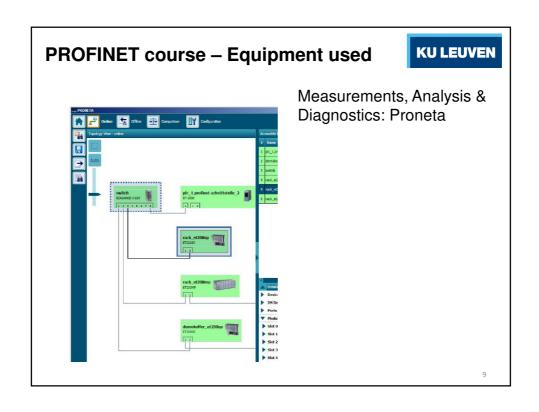
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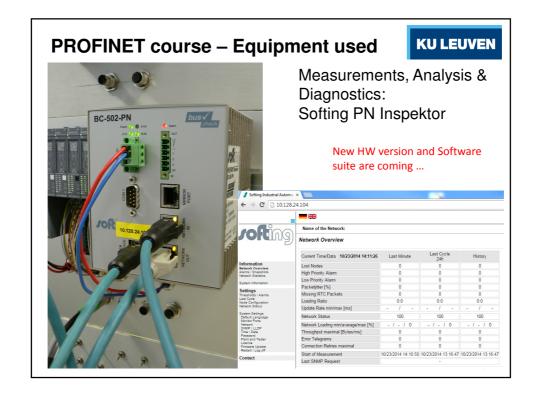
# **PROFINET** course – Equipment used

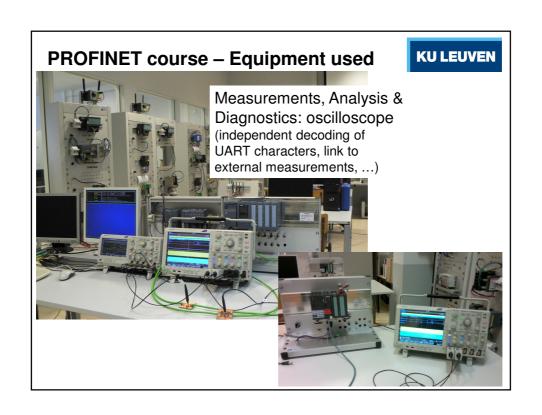
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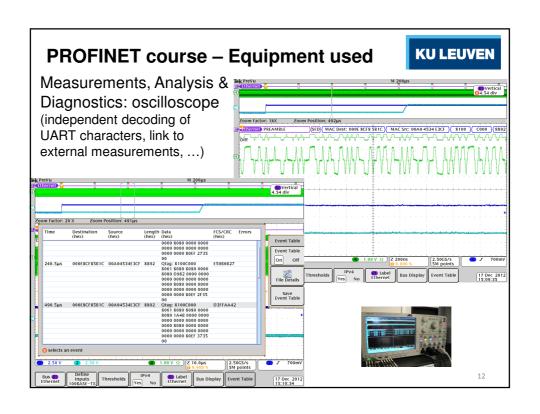
Measurements, Analysis & Diagnostics: Wireshark



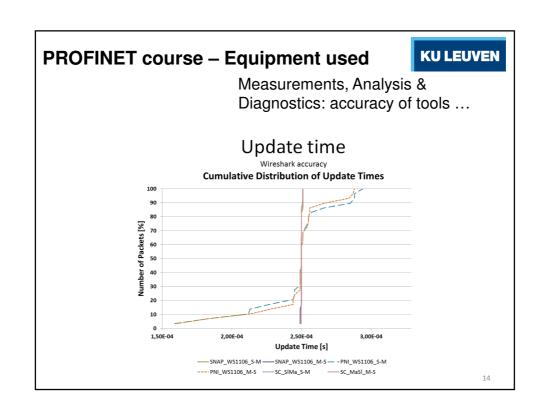


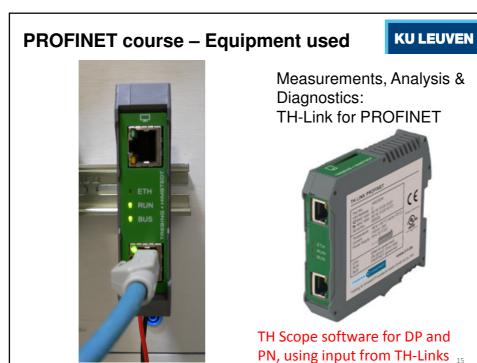


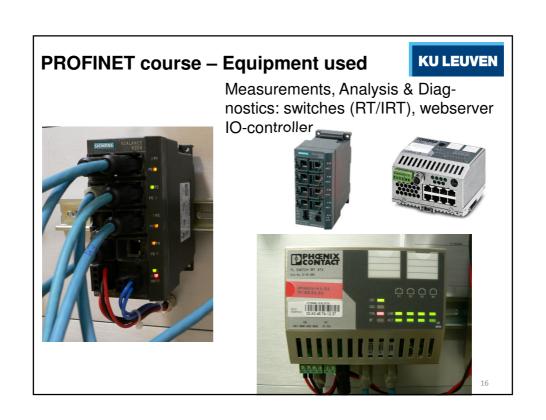








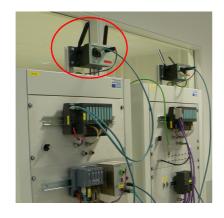




# PROFINET course – Equipment used

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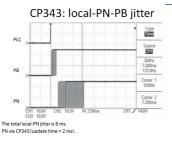
Extra network components: wireless link, IE-PB link, CP343, ...



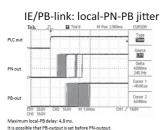


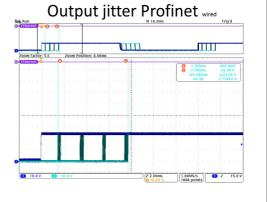
# PROFINET course – Equipment used

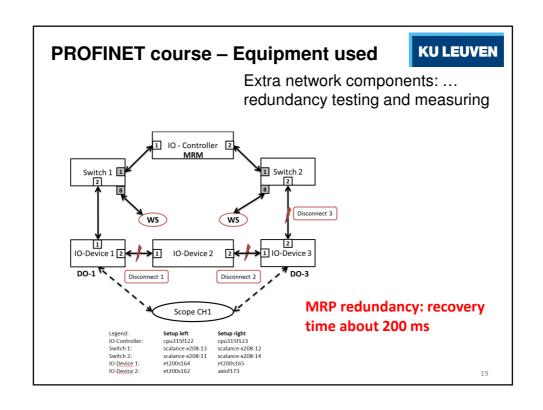
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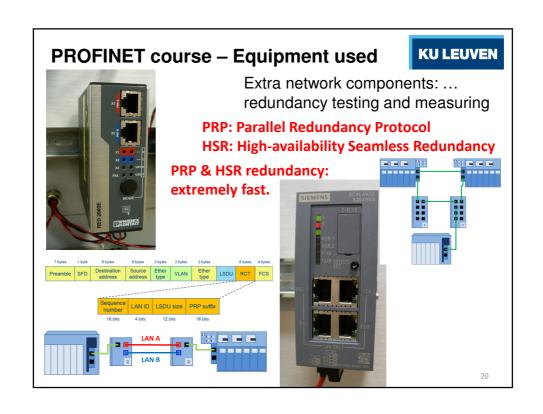


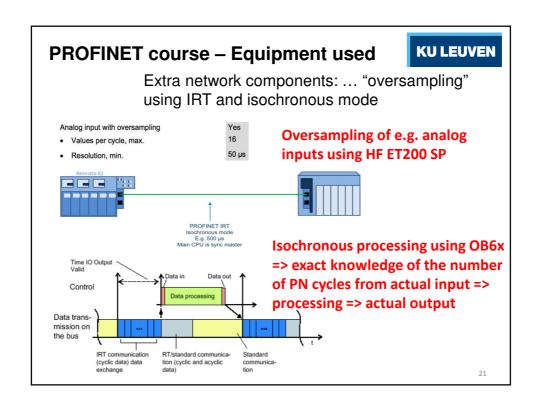
Extra network components: ... introduced jitter, combined PN and DP networks ...

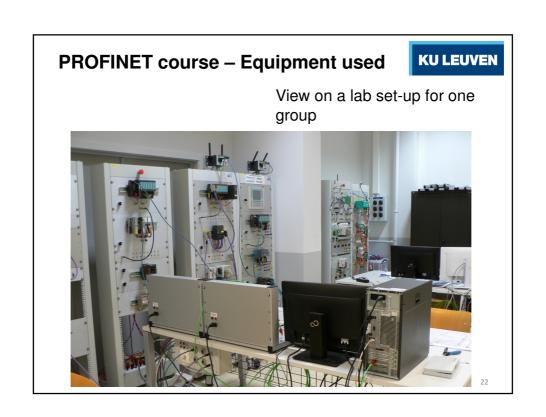










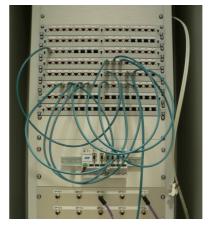


## PROFINET course – Equipment used

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In the new lab we can easily patch larger PROFIBUS and PROFINET networks.





22

### **PROFINET** course

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# Very interactive and hands-on:

- Measurements, configurations, exercises => print the results, make conclusions, add to your course notes
- Work on 4 set-ups with equipment from different vendors => a lot of variation
- Your account and networkdrive move with you from setup to set-up => save results, select your printouts, ....
- If you have suggestions for exercises, typical errors or set-ups, ... => we are constantly adapting the course, making it as (industrially) relevant as possible.
- No exam, but many exercises and at the end a test scenario (in a network of 15+ components with all diagnostic hardware and software)

If possible: extra on IRT and/or oversampling, response measurement drive, etc.