PLC & Fieldbus Survey – May 11th 2023 Executive Summary

29 participants

Two presentations

- https://indico.cern.ch/event/1272496/
- PLC survey
- Fieldbus survey and recommendations

PLC Survey

- First summary of the survey's answers
- Some answers were just received yesterday
- Analysis and recommendations from the survey will be presented in a future meeting
- Forum would be interested to have a presentation on the usage of B&R PLC. To be scheduled in the future.

Fieldbus Survey and Recommendations

- Clarification that the 2013 recommendations were only addressing Ethernet based fieldbuses, and the 1996 recommendations are still valid
- Discussion on the proposed recommendations
- Recommendations summarized and updated in the following slide

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Fieldbus Recommendations to the CTTB

1. **Maintain the support of currently centrally supported fieldbuses**

    CAN, EtherNet/IP, FIPIO, MODBUS, PROFIBUS/PROFINET famililes, White Rabbit, WorldFIP

2. **Foster ethernet based fielbuses**

    Migrate from serial to ethernet based fieldbuses whenever possible for existing installations

    Ethernet based fieldbuses should be favored for new installations

3. **Explore wireless fieldbuses**

    Mandate a group or task force to evaluate and validate existing solutions

    e.g. PROFINET over IEEE 802.11

4. **Update the 2013 list of recommended fieldbuses**

    Add explicitly WorldFIP

    Clarify that PROFINET profiles are recommended

5. **Mandate a task-force to formalize and establish the recommendations**

    A more formalized process to establish, agree and follow the recommendations is needed through a dedicated task force

    The forum is a good place to collect inputs, but does not necessarily have the legitimity to establish the recommendations

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Jean-Charles Tournier