

# Specification of Industrial Control Applications

## 02-May-2024 - Executive Summary

27 participants

### Two presentations

- <https://indico.cern.ch/event/1407853/>
- Towards DB Driven Specifications for Industrial Control Systems
- Leveraging AI to create UNICOS spec file from functional analysis document

### Towards DB Driven Specifications for Industrial Control Systems

- Presentation of DB driven engineering tool developed by CV
- The proposed approach is not specific to CV and it could be used, in theory, to any UNICOS-CPC application
- The tool/approach is currently in an evaluation phase and CV will make a decision to continue its usage (and development) this year
- It has been pointed out that Vacuum has a lot of experience in developing similar tool and that the two approaches should mutualize effort as much as possible instead of going in separate way (technologies, approaches, etc.)

### Leveraging AI to create UNICOS spec file from functional analysis document

- Presentation and initial feedback of using OpenAI to generate UNICOS spec file from functional analysis
- Suggestion to include the IOList file to help have a more complete generation of the spec file
- Suggestion to also breakdown the generation by object type, i.e. Alarms, to ease the process
- The evaluation of open source tool (such as Llama) will be performed this summer to compare (effort, price, hardware, etc.) with a turn key solution such as OpenAI
- Work in progress project to actually get familiar with the technology for Industrial Control