



DELIVERABLE 5.1

General layout and user interface

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¹ **Types.** **R:** Document, report (excluding the periodic and final reports); **DEM:** Demonstrator, pilot, prototype, plan designs; **DEC:** Websites, patents filing, press & media actions, videos, etc.; **OTHER:** Software, technical diagram, etc.

² **Dissemination levels.** **PU:** Public, fully open, e.g. web; **CO:** Confidential, restricted under conditions set out in Model Grant Agreement; **CI:** Classified, information as referred to in Commission Decision 2001/844/EC.

Executive Summary

This deliverable describes the general layout of the STREAM-0D tool for each end-user application, including amongst others the user interface, the hardware and software platforms, the simulation models, the control modules, the communication protocols, the supervision systems etc.

More specifically, it describes the selection of the hardware and software for developing the user interface, the simulation model and the control module. The description is enriched with the adopted communication protocol with the production line while enabling status messages for providing supervisory control of the system to its user.

The software and hardware architecture designed for the exchange of information between the measuring system and the simulation models, the simulation models themselves and the control module, and last the production line, are presented.

Finally, the proposed user interfaces for each application are presented. The user interface includes the specification of the product reference that is going to be produced in order to load the model with the nominal value for each input parameter.