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Scheduling tools development to manage CERN accelerators programmed stops and facilities installations

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The Scheduling Tool Project (ST Project) is in charge of ensuring the scheduling and coordination of CERN accelerator programmed stops and facilities installation managed within the Accelerator Coordination and Engineering (ACE) Group, inside the Engineering Department (EN) at CERN, since 2019. The scheduling tools should consider all the activities, that take place in large facilities, composed of complex and interdependent systems, ensuring the safety rules and quality standards. The current goal of the ST Project is to consolidate the scheduling tools that are used, and to homogenize them through the different facilities, merging the user needs with the developer solutions. This will lead to be ready for the Long Shutdown 3 (LS3) which will start in 2026. This paper describes the tools used to manage CERN programmed stops to build a coherent schedule, follow up, and report progress. It gives the details of the requirements, code design and future works to create a linear view on a web interface and the first results. It also describes the specifications needed to implement a report indicator in this linear view (i.e., broken line curve).

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Footnotes

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Yes

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