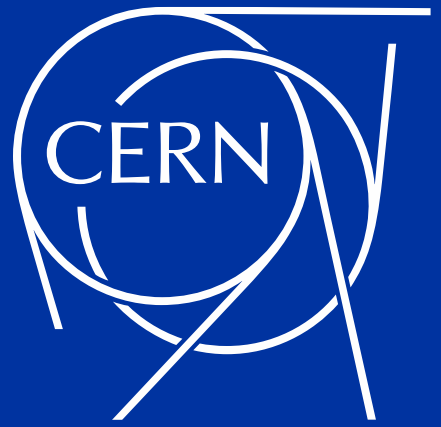


MPS checklist for 2024 re-commissioning

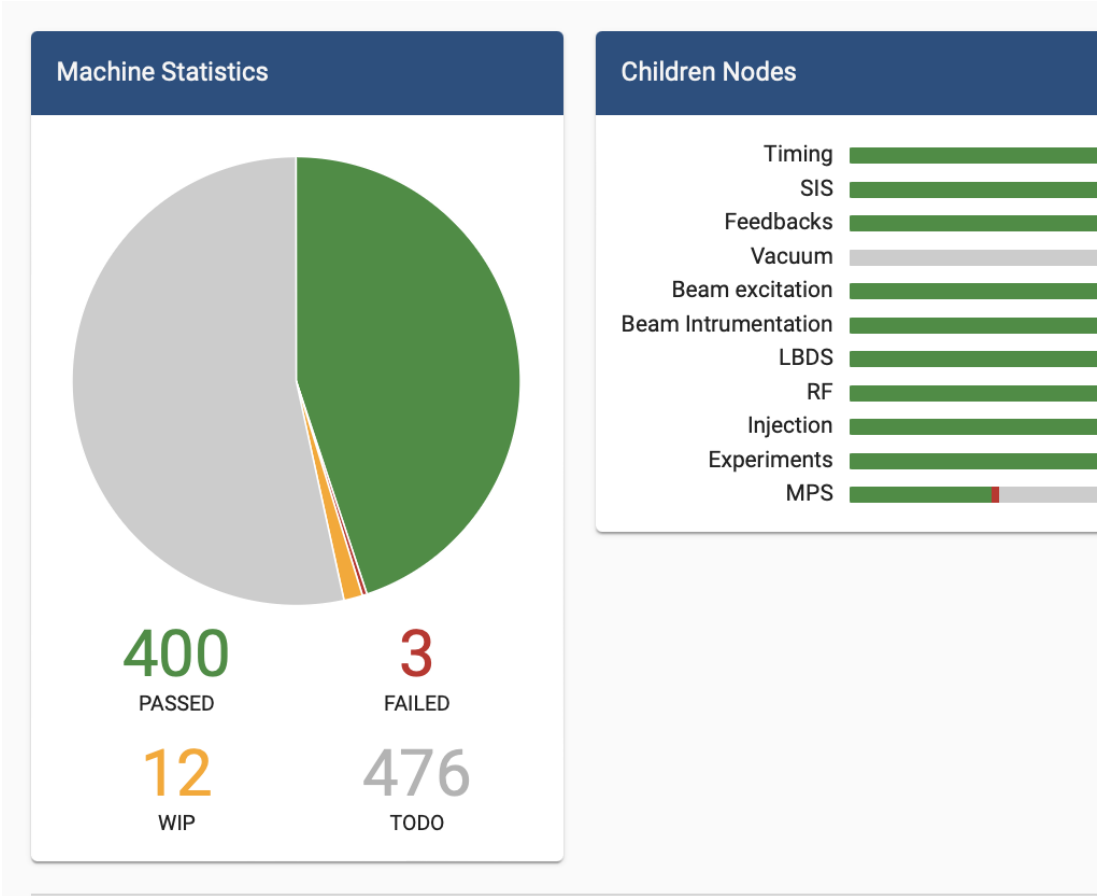
Cédric Hernalsteens for the MPP team

243rd Machine Protection Panel

Checklist for the 2024 commissioning

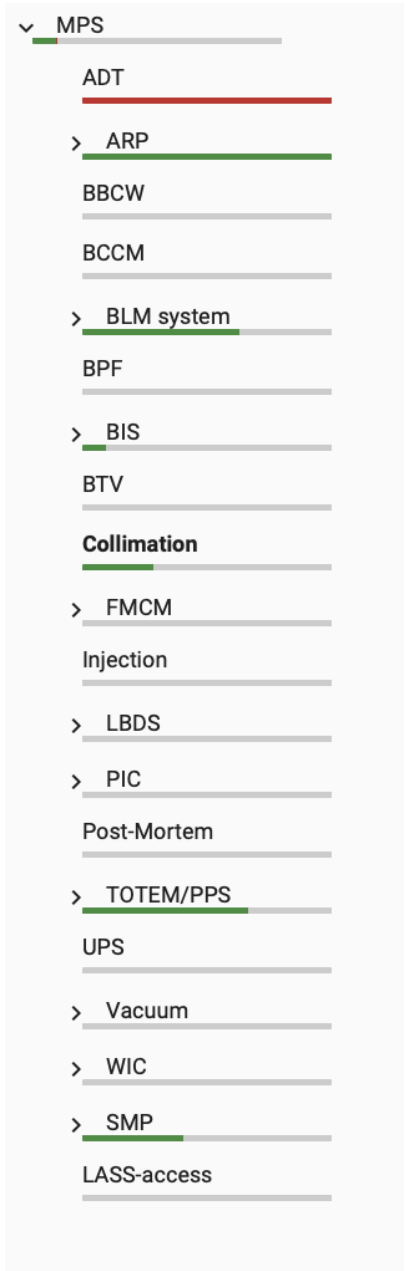
- **MPS tree in the LHC machine checklist was created for the 2021 commissioning**
  - Checklist based on the MPS commissioning procedures for all MP systems
- **Statuses of all tests reset after YETS**
  - History of past iterations is preserved
  - Tests not required for the recommissioning this year are greyed out

https://checklist.cern.ch



Checklist for the 2024 commissioning

- **Updates for 2024**
  - No major change
  - **BBWC**
    - All wires available, tests “activated” for each wire
  - **BCCM** checklist
    - To be upgraded (to be presented at the 244th MPP)
  - **LBDS checklist**
    - Updated to include tests related to the LBDS test mode (to be presented at the 244th MPP)
  - **Injection & BLM checklists**
    - Tests for the blindable BLM functionality are included for this year
  - **FMCM**
    - Triggered (FMCM *not* masked) only for RD1 at flat-top



Status

- Testing is on-going, experts started filling in the checklists

- Most checklists are split between hardware commissioning and beam commissioning: easier to gather the status for readiness for first beam (reports to be presented at the 244th MPP)

https://checklist.cern.ch

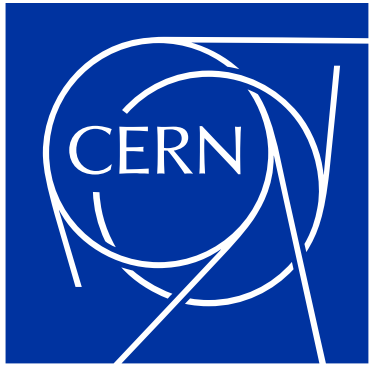
AFP

	AFP Roman pots	ALFA Roman pots
MPP/ARP - 01 - Injection permit removal		
MPP/ARP - 02 - User permit removal		
MPP/ARP 03 - LVDT bypass		

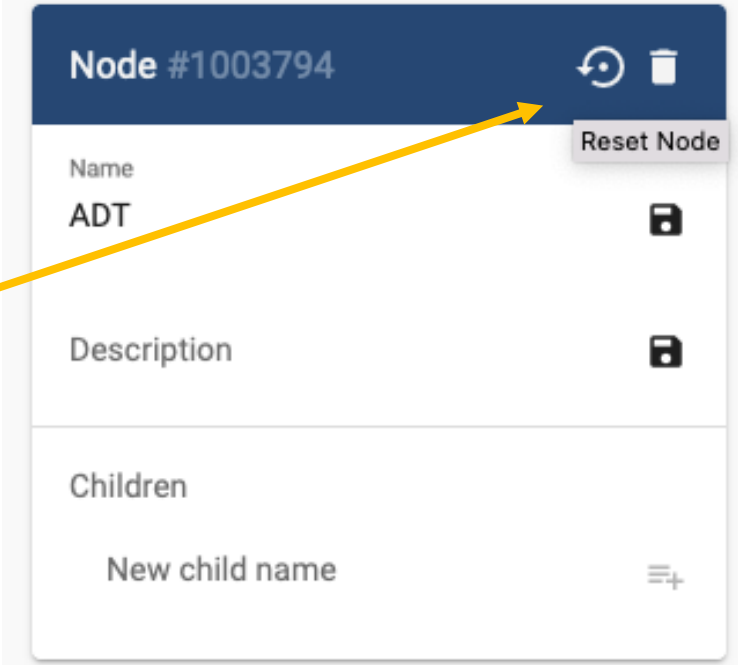
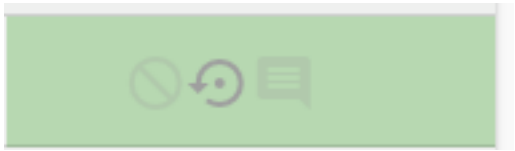
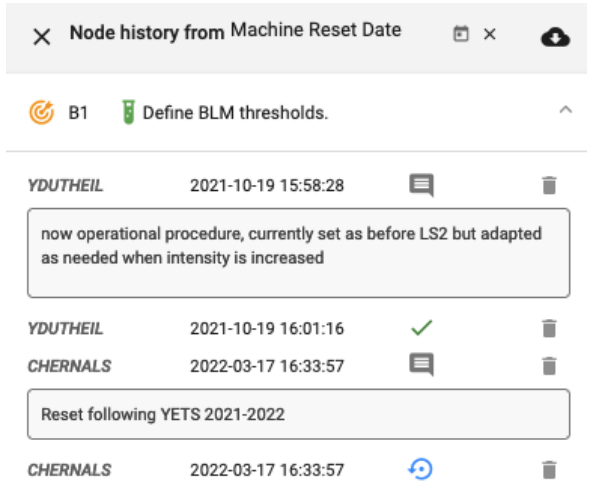
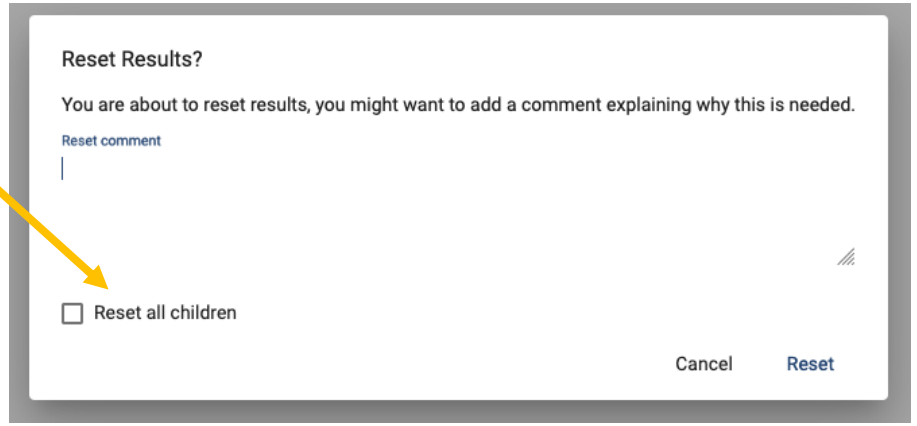
Collimation

	Status
Position/Gap Interlocks	
Local Mode Interlock	
Test Power Cut and PRS Reboot Interlock	
Test temperature interlock	
Test RBAC interlock	
Test MCS-Collimator role info	
Goniometers Replacement Chamber Interlock	

Collimation system testing and commissioning, following the MPS procedure EDMS-889345.



home.cern

Reset functionality

- **Partial reset (different from “whole tree reset date”) available in admin mode**
  - Reset a sub-tree (possibly including children) and add a comment
  - Reset a single test (with added comment)