

# OPERATIONAL CONTROLS FOR ROBOTS INTEGRATED INTEGRATED IN ACCELERATOR COMPLEXES

Mario DI CASTRO, Sylvain FARGIER,  
Mathieu DONZE

CERN

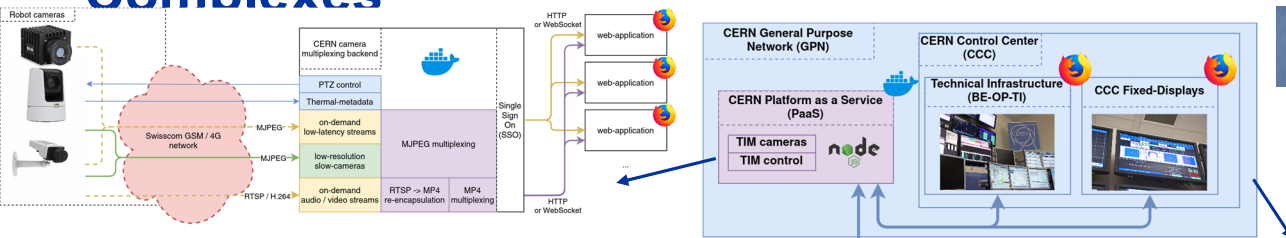


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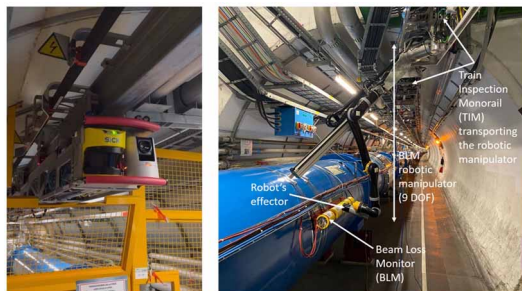




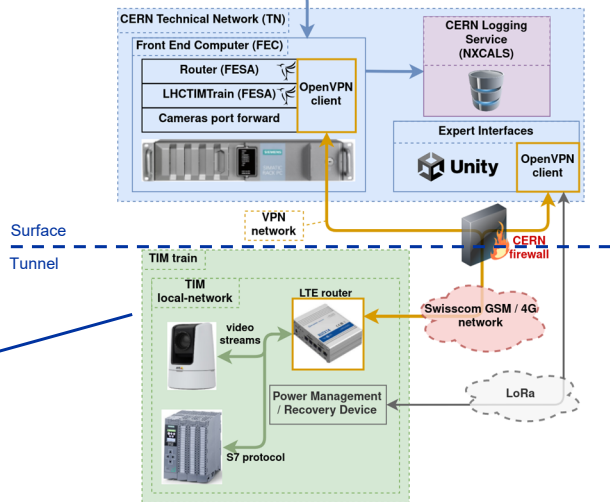
# Operational Controls for Robots Integrated in Accelerator Complexes



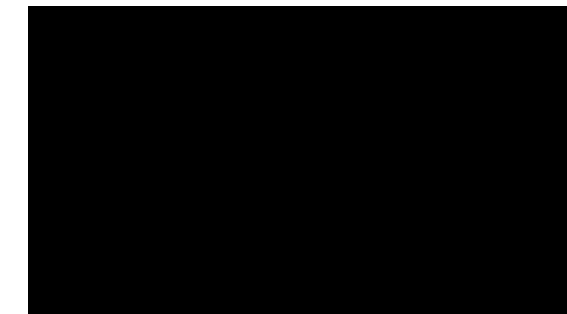
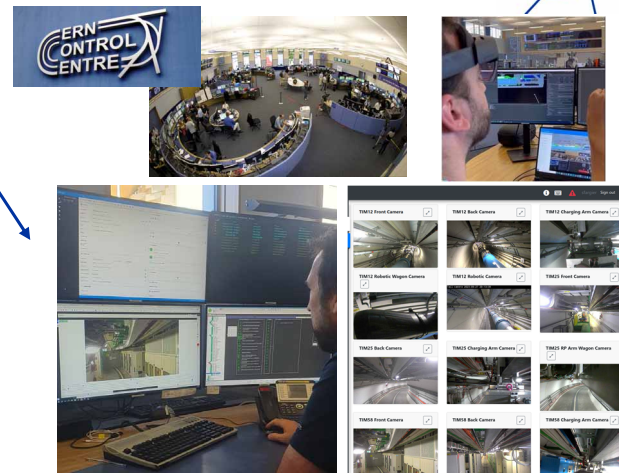
Novel framework developed for camera images streaming from the TIM robot



TIM robot passing the LHC sector doors (top left), 3D view of a TIM wagon (bottom left), 9 degrees of freedom robotic wagon (top right), 3D view of the robotic wagon (bottom right).



TIM operation general overview.



TIM operation from CERN Control Center and tabs from the human-robot interface.