Vacuum Controls Software

This site is dedicated to users and developers of the Vacuum Control System.

The Vacuum Control System is a 3 layers control system based on:

- Field Controller layer: instrument controller
- Automation layer: front-end Programmable Logical Controller (PLC)
- Supervisory layer: Supervisory Control and Data Acquisition server (SCADA)

The section TE-VSC-ICM (Technology department - Vacuum Surface and Coating group - Interlock, Control and Monitoring section) is in charge of the development and the maintenance of the vacuum control software. The official page and other mandates of the ICM section are [here](#).

USER INFO

The vacuum supervisory applications for the LHC and its injector are launched from Windows or Linux Control Console Manager (CCM VACOP) or from the vacuum terminal server (remote desktop to cerntsvac.cern.ch), using the icons:

From outside CERN connect first to cernts.cern.ch and then cerntsvac.cern.ch.

Prerequisites for user

Follow the procedure described [here](#).

Vacuum Framework user's manual

- User guide in a nutshell.
- Short introduction to Vacuum supervisory application for NEG activation.
- Vacuum supervisory documentation (old).
- Device control type documentations (for advanced users).

Standard/Stand-Alone Control System

- Bake-out control system
- Pumping station control system

Unicos Vacuum Package user’s manual

Support request

For any support request send an email to VacuumControls-Support@cern.ch or create an issue using the [vacuum controls JIRA web interface](#).

DEVELOPER INFO

Using Version Control System: GIT

Prerequisites for developing vacuum control devices and functionality

Documentation

Getting started with Vacuum PLC project

Getting started with Vacuum SCADA project
Getting started with External Widget Development

Checking the Control Console Manager with Vacuum WCCOA applications

Vacuum Framework WCCOA CTRL DLL API

UNICOS Vacuum Package

Vacuum Controls Team. VacuumControls.Support@cern.ch