Screenshot tool for Access System Consoles

M. Hostettler, G. Trad

with thanks to E. Genuardi, R. Valera and S. di Luca
the access system private network

KVM
"remote desktop"

CCR rack

private network

access system

safety system

access control system

technical network
the access system private network

screen to capture

this screen holds information not available on the TN in the same form:

door/patrol status, alarm history, ...

constraint: can not install any software or access any services (e-logbook, ...) from the private network
setup for taking screenshots

KVM "remote desktop"

video splitter

video capture

CCR rack

private network

technical network
OP access screenshot tool

- video capture device appears as a "camera" on the TN windows machine
- on the windows machine, we have a little python GUI to …
  1. acquire an image:
     - frame from the video capture
     - screenshot from the windows machine
  2. add a comment
  3. post an entry to the e-logbook
expanding to other machines ...

CPS Island - PASS Screenshot application
(based on the LHC Island screenshot system)

1. Video from this screen is sent to the application
2. Launch the app
3. Click on “Capture Access Console”
4. Select the eLogbook, add your comment and click on “Send”.

Our Software team
Many thanks!

For info
Brightness decreased due to VGA passive splitting. EN-AA informed, some ideas to upgrade the PASS system during the next YETS launched. Today there is no spare components for the video signal (the server is installed in the CCR).

R. Valera
status & plans

● deployed in LHC & CPS islands
  ○ used in LHC for ~6 months

● software stable, features can be added as required
  ○ posting to multiple logbooks with user selection: added for CPS
  ○ application version without USB capture or without screenshot capture
  ○ capturing multiple access consoles (capture devices) from one application

● extend to other islands - SPS?
  ○ needs per access console: VGA splitter, VGA-HDMI converter, HDMI capture
    ■ VGA splitter: active preferred (passive splitting reduces brightness)
    ■ ~100 CHF of equipment