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Fault investigation tools at the ALBA syncrotron light source

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ALBA is a third generation synchrotron light source near Barcelona (Spain). In operation for users since 2012, we aim at continuously improve the beam availability by increasing the mean time between failures (MTBF) and decreasing the mean time to recover (MTTR). In order to reduce the MTTR a good set of tools to quickly diagnose what has caused the incidence is a must. From the timing or PLC logs to the BPMs buffers; here we report our sources of information to investigate the failures. But, it’s not only a matter of having the information, but being able to quickly access to it. Thus, the Operator oriented tools to extract the data in the Control Room will also be presented. Finally different examples of failures will be given to illustrate our means and a list of “what we would like to have” will be discussed.

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