Contribution ID: **94** Type: **Software programming (Java, 3D modelling, LabView, SCADA WinCC etc.)**

Time synchronization of electronic devices in RACKs NICA-MPD PLATFORM using GPS NI-9467 cRIO

The aim of this project is to provide reflexive insight into the problem of time synchronization of electronic devices in the NICA MPD PLATFORM. The method which we propose is the Precision Time Protocol (PTP), as an addition to GPS, to provide time from independent authority. It gives the possibility to achieve nanosecond synchronization which makes it suitable for measurement and improve system control. We also briefly discuss advantages and disadvantages of proposed techniques which may have an impact on the use and operation of the project.

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