

LOgging UnifieD for ASTRI Mini Array

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The ASTRI (Astrofisica con Specchi a Tecnologia Replicante Italiana) Mini-Array project is a wide international effort led by the Italian National Institute for Astrophysics aiming at operating an array of nine ASTRI Cherenkov telescopes. The Mini-Array will operate in the energy range 1-100 TeV and beyond and will be dedicated to very high-energy gamma ray astrophysics and optical intensity interferometric observations of bright stars. It will be installed at the site of the Teide Observatory in Tenerife (Spain).

The core of the ASTRI Mini-Array is the Supervision Control and Data Acquisition (SCADA), the hardware and software system monitoring and controlling all the operations carried out at the ASTRI Mini-Array site. LOUD the LOgging UnifieD system is one of the main components of SCADA. LOUD is the subsystem that provides the service tailored to gather, filter, expose and persist log events collected by all the array devices and assemblies (telescopes, LIDAR etc.). We present here its architecture and the software stack explicitly designed for distributed computing environments employing Internet of Things technologies.

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Collaboration

other (fill field below)

other Collaboration

ASTRI

Subcategory

Experimental Methods & Instrumentation

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