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The evolution of the Data Acquisition System of KM3NeT

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The KM3NeT experiment is composed of two underwater large-scale neutrino telescopes currently under construction and located in the Mediterranean Sea, namely ARCA and ORCA, mostly designed for studying cosmic neutrinos and neutrino properties respectively. The two KM3NeT detectors share a common modular Data Acquisition System, which is designed to be scalable with the size of the detectors. The detector design has changed from the previous network architecture, based on a customized version of the White Rabbit time synchronization protocol, to the current network which follows a standard White Rabbit use-case. This was necessary to expand the detectors to the foreseen cubic kilometer volume. In this presentation, the evolution of the Data Acquisition System according to the new detector architecture will be presented.

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