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The Capture, Storage and Consumption of the MeerKAT Radio Telescope's Sensor Data

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The Control and Monitoring (CAM) Team at the South African Radio Astronomy Observatory (SARAO) is responsible for implementing software solutions for the collection of sensor data from all of the components, user-supplied equipment and ancillary devices that make up the 64-dish MeerKAT Radio Telescope. Recently, the CAM Team developed and deployed a new solution called KatStore64 which provides services to the MeerKAT Telescope Operators, Astronomers and academia to access the telescope's sensor data.

In order to capture, store and consume all of this data, the CAM Team makes use of the services offered by the Centre for High Performance Computing (CHPC) for long term storage of the data and employs APIs to extract and present the stored data to users.

My poster/talk will illustrate how the CAM Team has built and implemented the KatStore64 service for the storage and retrieval of sensor data for the MeerKAT Radio Telescope.

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