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Tango based GMRT Control System : An Exploratory Prototype for the SKA Telescope Manager

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The Giant Metrewave Radio Telescope (GMRT), built and operated by the NCRA (India) is a SKA path-finder facility. The Monitor & Control system of GMRT is upgraded using the TANGO software framework. It is developed in synergy with the SKA-TM work package by considering similar design ideas and technology choices. The Tango based GMRT Control (TGC) System is composed of specification driven generic control nodes which are organized hierarchically. The configuration defined in the Tango database, and custom RDBMS schema is used to identify the role of control nodes in the control hierarchy. The TGC system has been operational since the last couple of years.

This talk will cover the learning and experiences from the Tango based Next Generation GMRT M&C System, such as implementation of the Tango framework, specification driven system to promote loose coupling, aggregation node implementation for antenna array and sub-arrays, and the context based fully featured GUIs using the Taurus etc.

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