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TANGO for LOFAR 2.0: an overview of the LOFAR Station Control software

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Since 2020, ASTRON has chosen the TANGO Controls framework for the development of the Monitor and Control Station software for LOFAR 2.0, a major upgrade regarding both software and infrastructure facilities. INAF is currently involved in the Station software development both in the Station Control team and in the Telescope Manager team, recently merged as a single team.

The present overview covers the general system architecture, the hierarchy among TANGO devices, the software tools used in the system and shows some representative use cases and technical challenges. Moreover, the Station Control team is developing new software extensions to

the PyTango framework in order to possibly overcome some technical difficulties and add specific missing features.

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