

Tango LMC Harmonisation Through Telescopes - Best Practices and Roadmap Definition

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Real-time updates for on-going observations.

Telescope Manager (TM) shall provide to Central Signal Processor (CSP) regular updates for delay tracking and beam-forming parameters (for all on-going observations/scans). Delay Models are specified in a form of coefficients of a polynomial, number of coefficients per model and cadence for the updates is still TBD; some estimates are provided in the CSP to TM ICDs (for mid it may be 3 coefficients per antenna per polarization every 10 seconds). Weights used in beam-forming and Jones Matrices shall be provided by SDP, via TM (cadence TBD).

Topic for discussion: Should these parameters be delivered to CSP using the same method and approach as other configuration parameters? In other words should they be defined as parameters of the TANGO device?

Summary

What is the best method for transmission of the delay models, calibration information, weights and Jones Matrices used in beam-forming?

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