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How to effectively use TANGO in a hierarchical system.

Central Signal Processor consists of three major sub-elements. The 4th sub-element, CSP.LMC (Local Monitor and Control) has been introduced to implement a single point of communication with TM and represent CSP as a single Element. Each of the three sub-elements (namely: Correlator and Beamformer - CBF, Pulsar Search Engine - PSS, and Pulsar Timing Engine - PST) consists of a number of LRUs/components and implements internal monitor and control. Each of the three sub-elements (CBF, PSS and PST)implements a 'sub-element master' which communicates with LMC. At least two sub-elements (CBF and PSS) intend to use TANGO for communication between the Sub-element Master and other LRUs/components. The challenge: How to define TANGO devices / servers so that the operations, via TM, can monitor and control CSP as a single entity, but when needed also at sub-element level, and down to LRU and component. In other words, operations, via TM, when needed, should have access to every parameter of every component.

Summary

How to define and effectively use a hierarchy of TANGO devices.

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