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# A multi-level monitoring interface for the SKA Central Signal Processor using the Taranta synoptic view

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# Introduction and context

Grafical User Interfaces are a powerful tools for the development process!!

they enable:

- **Exploratory testing sessions** - a perfect tool to find new bugs/anomalies
- **Demonstrating code functionalities** - stakeholders may be happy
- **Communication between teams** - a platform to summarize multiple components

# Taranta: a web UI for TANGO



Taranta offers a **no-code, web-based** approach for creating dashboards that integrate multiple Tango devices.

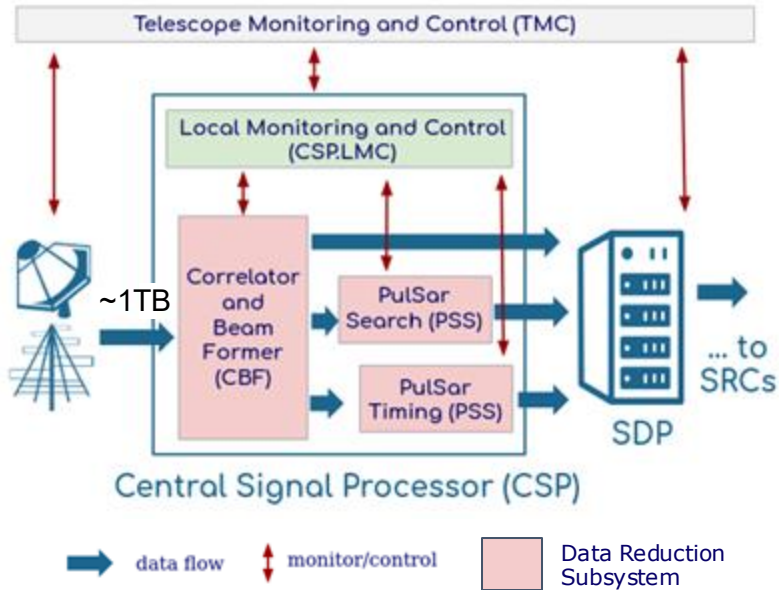


INKSCAPE

The new **synoptic view** enables the integration of **svg files** that reacts to the changes of the attributes of the TANGO Devices

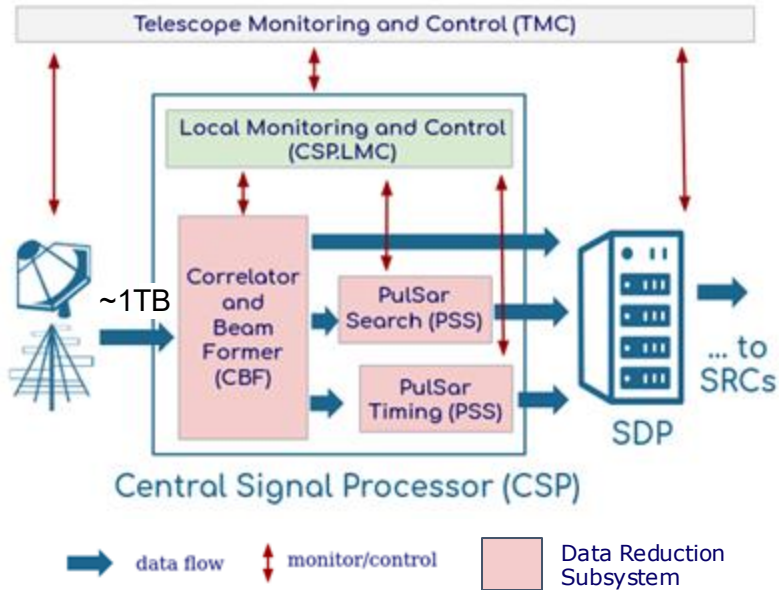


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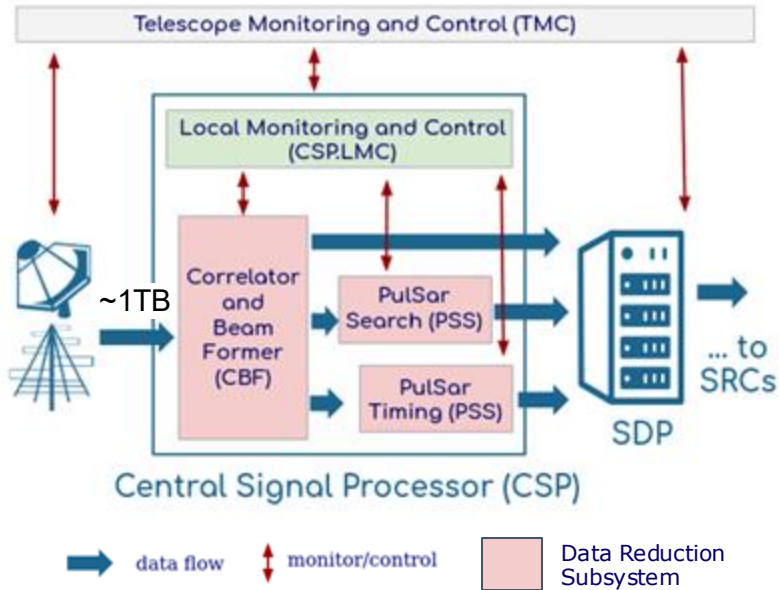
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How to create a GUI for such system?





low-csp/subarray/01 **FAULT** ENGINEERING

low-csp/subarray/02 **ON** ONLINE

low-csp/subarray/03 **ON** ONLINE

low-csp/subarray/04 **ON** ONLINE

low-csp/subarray/05 **ON** ONLINE

low-csp/subarray/08 **DISABLE** OFFLINE

low-csp/subarray/09 **ON** ONLINE

low-csp/subarray/12 **ON** ONLINE

low-csp/subarray/13 **ON** ONLINE

low-csp/subarray/14 **ON** ONLINE

low-csp/subarray/15 **ON** ONLINE

low-csp/subarray/16 **ON** ENGINEERING

... let's zoom!

**PULSAR\_TIMING** | **PULSAR\_SEARCH** | CA

low-cbf/subarray/01 **FAULT**

low-cbf/processor/xx ENGINEERING CONFIGURING FAILED

low-cbf/connector/0 ports 23/26 pkts in: 11650 pkts out: 0

low-pss/subarray/01 **ON**

ENGINEERING EMPTY OK

low-pss/pipeline/xx

01	02	03	04	05	06	07	08
09	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32

# Thank you for your attention!

I'll see you at the poster booth **71!**



Chicago, September 22-26, 2025

