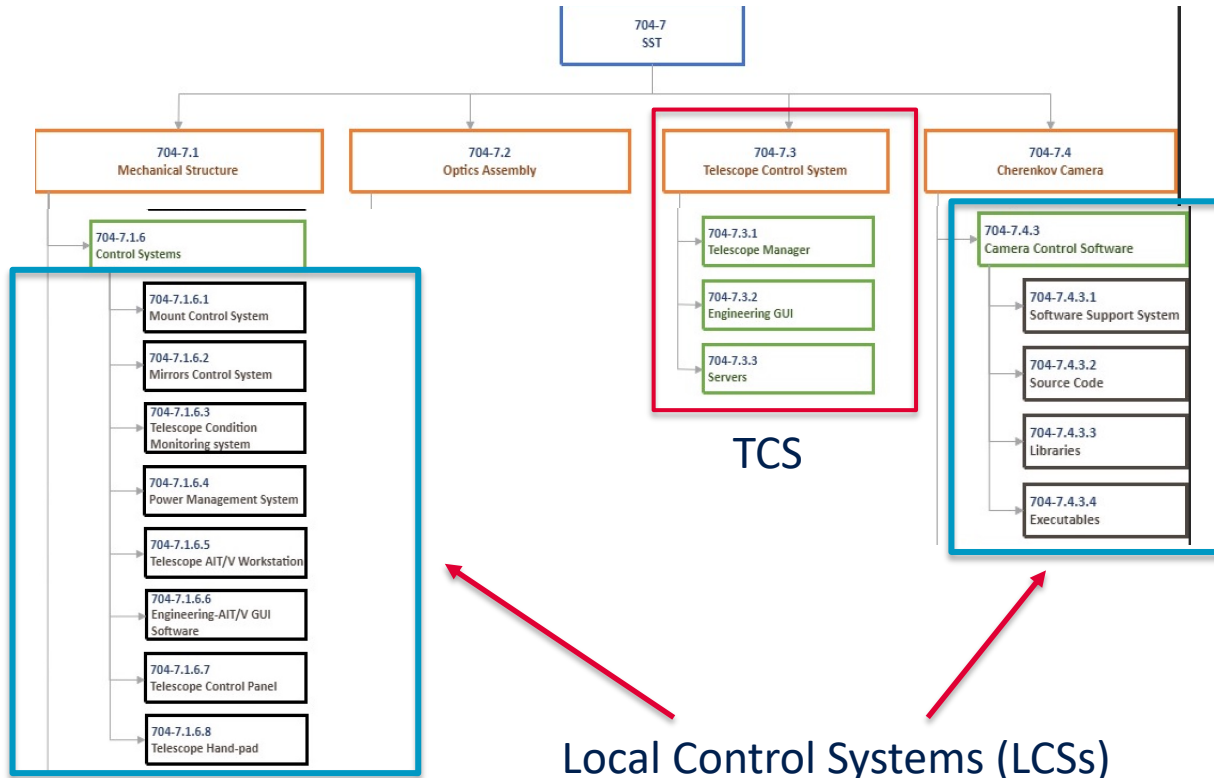# SST TCS and AIV SW: General Aspects and Meeting Plan

G. Tosti  19/02/2024

(SST SW Kick-off meeting Milano, 19-20/02/2024)

# SST PBS – What We have to Produce

# SST – Control System Concept

**Local Control System**: Control and safety units, control software, local communication infrastructure required to guarantee functional operation of a given equipment and all the other support elements needed for integration, verification and maintenance activities.
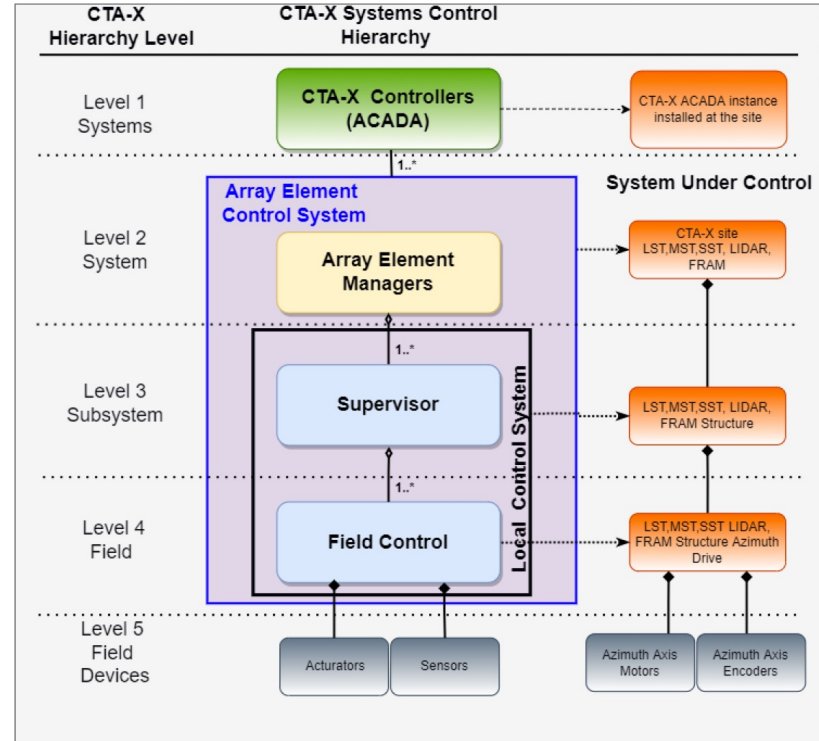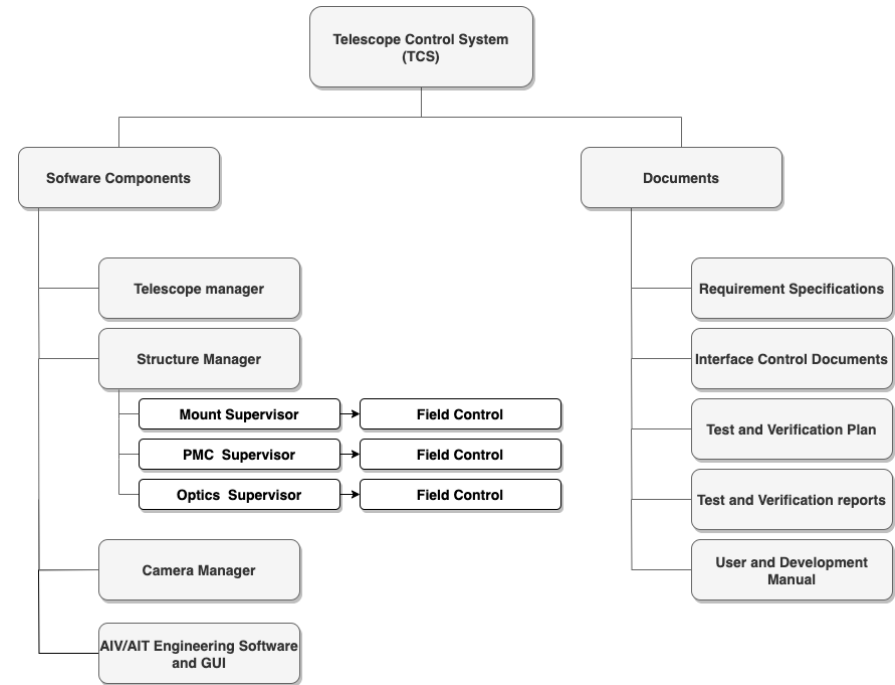
CTA-TRE-SEI-000000-0016-1a



*Figure 5 – The CTAO-X (X = North or South site) control systems hierarchy. Each Array element Control system include also a Array Element Interlocks and Safety system not represented in the figure. Azimuth motors and encoders are examples of field devices.*

# SST: Software Product Tree

- The SST Telescope Control System (TCS) is responsible for coordinating all telescope assemblies and to interface with ACADA and IPS.

# The context: SST WT 5

| SST Working Team | | Coordinator(s) | Team |
|---|---|---|---|
| **WT5** | Software Design & development | Gino Tosti | Gino Tosti<br>Federico Russo<br>Gianluca Giavitto<br>Evert Rol<br>Jason Watson<br>Vito Conforti<br>Alida Marchetti<br>Pietro Bruno<br>Stefano Germani (Deputy)<br>Simone Iovenitti |

Goals →

- TCS/LCS development start: March 2024;
  Use cases ← CTA–TRE–SEI–000000–0015_2i_Generic Telescope Use Cases.docx
- Test with the first SST telescope in 2025.

# Aims of the Meeting

- Define the main high-level components of the SST SW: from the LCS to the TCS and the ACADA, IPS Interfaces;
- Assess an initial common knowledge-base of what already done in the context of the SST prototypes;
- Build a common strategy to develop the SST SW and organize the work;
- Improve the multidisciplinary approach to SW development
- Start to build a development schedule integrated in the SST Master Schedule;
- All is not in this list