

# TM MAESTRO

## Telemetry Mission Controller



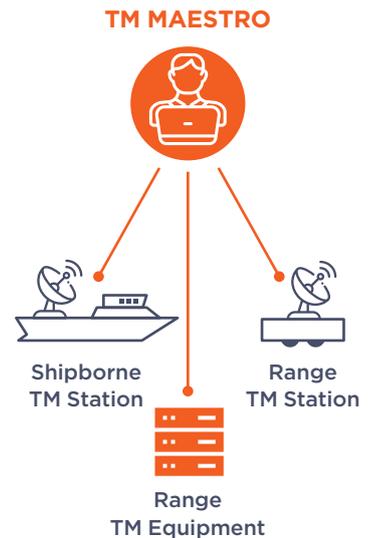
### TELEMETRY GROUND SOLUTIONS

With TM MAESTRO, Safran Data Systems offers a global & centralized Monitoring & Control of your telemetry infrastructure. TM MAESTRO is a unique software solution designed to answer Telemetry operators' critical requirements:

- Monitor & Control any equipment from antennas to decommutators
- Harmonized look & feel for every asset
- Centralized control of any local & remote TM assets from a single workstation
- Create & manage TM configurations for your different missions
- Simplify & Automate TM infrastructure testing

Based on a user customizable Graphical User Interface (GUI), TM MAESTRO copes with different users' profiles and steps of your missions (preparation, live flight test, replay, station maintenance). Scalable and evolutive, new TM equipment added to the infrastructure is easily managed by TM MAESTRO.

Unlimited number of equipment can be added to the control, that makes it a fully evolutive system.



#### GLOBAL TELEMETRY CONTROL

One solution for the whole control: antennas, receivers, recorders, boresights...

#### MULTI STATION CONTROL

Control of multiple stations from a single place, extending the range covered by the mission

#### REMOTE STATION

Take control of a far-off station without the need to travel, including for a shipborne station

#### USER CUSTOMIZABLE GUI

Build the user interface the way you like it, thanks to sizeable widgets and multi-session screens

#### SCALABLE & EVOLUTIVE

Any equipment you bring to the station can be added to the system

#### USER-IN-MIND DESIGN

More than a software: a solution that takes into account the users' operational constraints

# TM MAESTRO

## MONITORING & CONTROL CAPABILITIES

- ▶ Telemetry Antennas (SPARTE, COMTRACK)
- ▶ Telemetry Receivers (RTR-X4, RTR-X1)
- ▶ Best Source Selector (BSS)
- ▶ Telemetry Recorders (RSR, GMDR)
- ▶ Boresights & test generators
- ▶ eZ Processing - Advantys decommutator
- ▶ Camera control, video capture and display (antenna camera, surveillance camera, video recording)
- ▶ Additional assets: weather station, diesel generator, UPS
- ▶ Any third party equipment with IP interface

## FEATURES

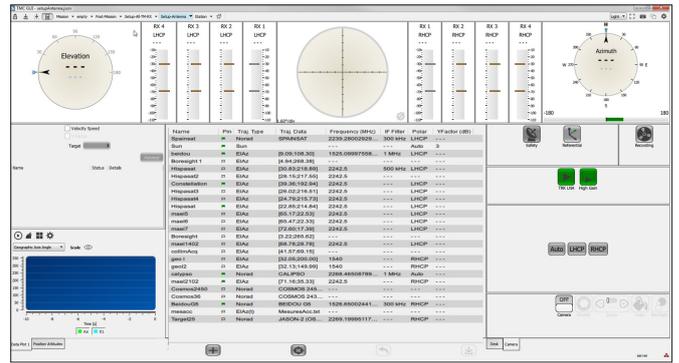
- ▶ Widget-based controls - allows operator to customize the GUI layout (drag, drop, resize)
- ▶ Extensive widget library
- ▶ Multi-session – each user can build and save his own GUI layout
- ▶ Multi-operation – different GUI layout available for different mission phases
- ▶ System functions: antenna autotest, Y factor, short & long loop tests, data log analysis tool
- ▶ Whole System synopsis health status
- ▶ Security - 3 levels of access

## FIT TO YOUR NEEDS

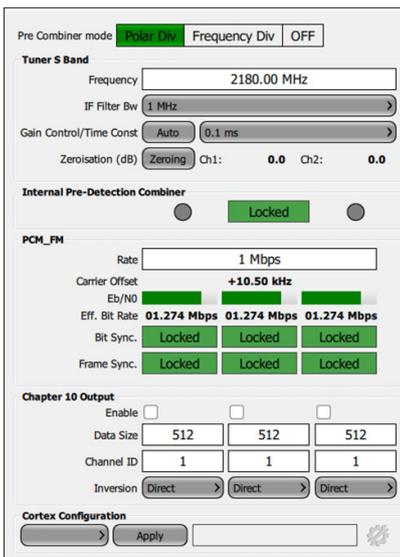
- ▶ Multiple antenna monitoring & control
- ▶ Remote system monitoring & control
- ▶ Adaptive communication to limited bandwidth option (down to 16 kbps)
- ▶ Increased reliability with 2 computers in hot redundancy (option)

## INTERFACE

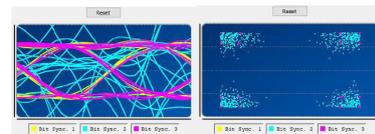
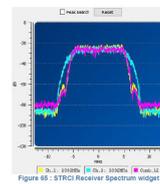
- ▶ 2U rack computer
- ▶ Single or multiple touchscreens



| Name    | Pin | Trq. Type   | Trq. Data     | Freq. | IF Filter | Polar |
|---------|-----|-------------|---------------|-------|-----------|-------|
| Sam     | 3   | None        | AQUA          | 2130  | 50 MHz    | RHCP  |
| Missile | 1   | Dist/Profil |               | 2250  |           |       |
| Collim  | 1   | Postfil     | [37.00;27.30] |       |           |       |



| Tracking Settings      |        | Search Settings |                                |      |
|------------------------|--------|-----------------|--------------------------------|------|
| Input                  | Output | Input           | Output                         |      |
| Autotrack delay (s)    | 0.0    | 1.0             | Multipath clipping limit (*)   | 0.0  |
| Auto-antenna delay (s) | 0.0    | 0.0             | Auto-receiver hysteresis (dBm) | 0    |
| Track Beam Width (*)   | 2.0    | Acq             | 8.0                            |      |
|                        | LHCP   | RHCP            | LHCP                           | RHCP |
| Lock (dBm)             | -68    | -70             | -80                            | -80  |
| Unlock (dBm)           | -86    | -90             | -85                            | -85  |



## GLOBAL SALES

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