



Data sheet – STAT

Data Archiving and Analysis

Novel software product in TGSS (Terma Ground Segment Suite) for spacecraft data archiving and analysis

Central archive for telemetry parameters and events over years of data.

- Mission operations and AIT
- Constellation-ready
- Standard SQL interface: access from any 3rd-party software for ML, data analysis or visualization
- Optimised for time series: high performance, very quick response
- Compressed storage saves 90% disk space
- Original and downsampled data
- Choose your deployment scale: from a laptop to a cluster

Integration with **CCS5**:

- Import TM and onboard events directly from CCS5 sessions
- Realtime import using CCS5 AutoPilot

Integration with **ORBIT**:

- Visualisation of flight dynamics parameters
- TM analysis in context of orbit/attitude events predicted by ORBIT
- Maneuver calibration etc

Technology Stack

- Python
- PostgreSQL
- TimescaleDB
- Grafana

Supported Operating Systems

Fully **cross-platform** product, pure Python. One installer for Windows, Linux and Mac; install with PIP.

Docker scripts provided for fully automated deployment. SystemD service configuration included.

Product support is available at: <https://tgss.terma.com/>

