

# STAT

## SPACECRAFT TELEMETRY ANALYSIS TOOLKIT

### 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
- Client API in Python
- **Optimized 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

#### Technology Stack:

Python, PostgreSQL, TimescaleDB, Grafana, Docker

### Supported Operating Systems

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

*Docker Compose* scripts provided for fully automated deployment.

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

STAT is a live product that adapts to market needs.

### Short-term Roadmap

- Support for more types of TM: discrete parameters, text etc
- Customized downsampling
- New Grafana dashboards
- Fast automated software upgrade

If you have any questions, please contact our team,  
[terma.space@terma.com](mailto:terma.space@terma.com).

