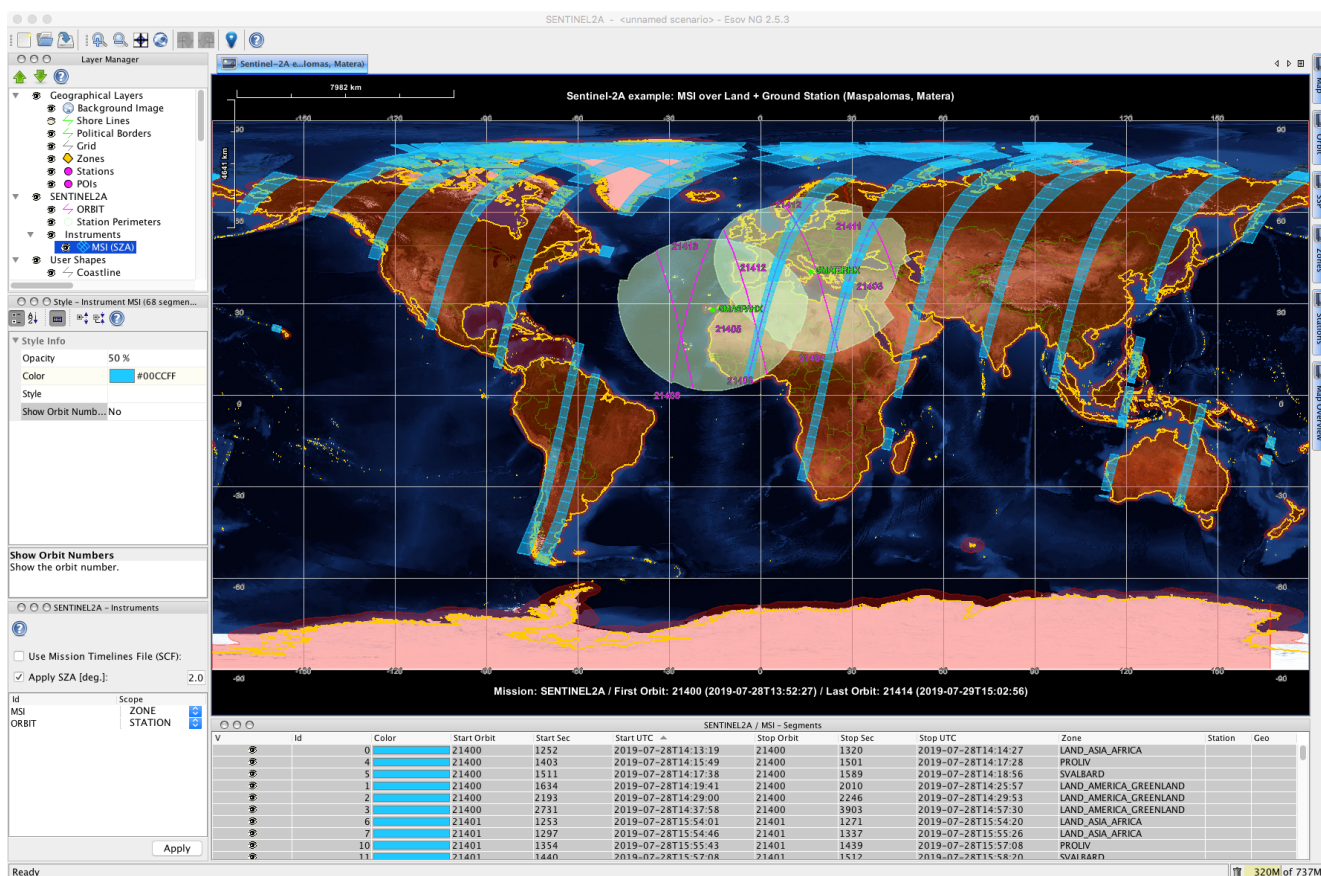# ESOV NG v2.7.1

Release Notes

What's new

This release implements the following changes with respect to ESOV NG v2.7.0 released on 01 September 2024:

New Features

- Add support for spacecraft eclipse entry/exit times calculation (ESOVNG-AN-503)
- When multiple stations are selected, disable/grey-out the "Copy system-wide station into user database" button r (ESOVNG-AN-510)

- Implement mitigation proposal to reduce impact in application of format changes in EOCFI files: omit parsing of file header (ESOVNG-AN-526)

Software Aspects

- Update third-party library versions, including EOCFI library version upgrade to v4.29
- New splash screen and application icon

Bug Fixes

- When multiple stations are selected, disable/grey-out the "Copy system-wide station into user database" button (ESOVNG-AN-510)
- Ubuntu Linux distribution: Error message when creating new scenario *Error in PARAMETER: Parameter "scale_factor" was not expected. (org.opengis.referencing.FactoryException)*". (ESOVNG-AN-519)
- Saved scenario with OSF cannot be opened. Error: Failed to open scenario: Cannot perform image rendering due to unexpected problem. (ESOVNG-AN-530)
- Error adding zone ZRT01___ "Blackforest (example circle)". (ESOVNG-AN-531)
- Error when saving an edited system station (through Copy system-defined station button). (ESOVNG-AN-533)

Documentation

User Manual updated in this release

Available Platforms

ESOV NG is available for Linux 64-bit, macOS and Windows 64-bit:

	Distribution Package
Linux 64-bit	EsovNG_linux64_2_7_1.sh
Mac OS X	EsovNG_macintel64_2_7_1.dmg

EARTH OBSERVATION
SYSTEM SUPPORT

	Distribution Package
Windows 64-bit	EsovNG_windows-x64_2_7_1.exe

Note: The macOS distribution package is compatible with macOS ARM64 machines

Mission Support

The ESOV NG distribution package includes mission configuration files for the following operational satellite missions:

- Cryosat-2
- MetOp-A/B/C
- Sentinel-1A/B
- Sentinel-2A/B
- Sentinel-3A/B
- Sentinel-5P
- Sentinel-6A
- SMOS
- Swarm A/B/C

The ESOV NG distribution package includes mission configuration files for the following historical satellite missions:

- Aeolus
- Envisat
- ERS-1/2

The ESOV NG distribution package includes example mission configuration files for the following not yet operational satellite missions:

- Biomass
- CHIME
- CIMR
- CO2M
- CRISTAL
- EarthCARE
- FLEX
- LSTM

- MetOp-SG-A
- MetOp-SG-B
- ROSE-L
- TRUTHS

In addition, an example 'dummy' mission (SAT_EXAMPLE) is provided to illustrate how to add new satellites to Esov NG. See Section 19.2 in the User Manual / embedded Help for further information.

Latest versions of
- Satellite Identification files (.idf)
- Orbit files , e.g. Orbit Scenario Files (ORBSCT), Predicted Orbit Files (ORBPRE)
- Swath Definition Files (SDF)

for the supported missions can be downloaded at start-up or by triggering the check for new mission updates menu option ("Help —> Check for new mission files")

Alternatively, Orbit Scenario Files (OSF) or Predicted Orbit Files (POF), and Swath Definition Files (SDF) for the supported missions can be found in the EOP System Support web server under the link:
MISSION_DATA

Known Problems

The current ESOV NG release has the following open issues:

- Java exception when clicking on year in Date Widget (Start/Stop Time). Workaround: date textbook can be edited (ESOVNG-AN-379)
- Zone not properly filled if zone style 'Filled' is enabled and zoom is applied (e.g. zones EURASIA, AFRICA) (ESOVNG-AN-400)
- Distortion over the Poles in Rectangular projection for very-wide swaths (e.g. Sentinel-5P, TROPOMI instrument) (ESOVNG-AN-401)

Further Information

For more details, please have a look to the ESOV NG User Manual:
ESOVNG User Manual v2.7.1

Contact

For questions, suggestions or reporting issues, please send an e-mail to the ESOV NG Helpdesk:

esov@eopp.esa.int