



Characterize non-cooperative maneuvers and fix observation associations

ODSSA is a plugin to Ansys ODTK that enhances your observation processing. ODSSA enables your work with non-cooperative space objects, correctly associating observations to these objects as well as determining the maneuvers that these objects have performed.

- **Has this object maneuvered?**

With ODSSA's Maneuver Processing Tool (MPT) capability, you can quickly reconstruct unknown maneuvers using real observations. Optimize the maneuver solution. Create your own maneuver hypotheses. Reevaluate and refine your maneuver solutions with additional data.

- **Is my tracking data correctly tagged?**

With ODSSA's Observation Association Tool (OAT) capability, you can ensure that observations are correlated to the correct object. Find missing objects by assigning uncorrelated tracks. Quickly untangle observations from closely spaced objects.

Benefits

- Automated, accurate maneuver solutions
- Customize maneuver hypotheses
- Solve for maneuvers in any direction
- Understand spacecraft patterns of life
- Separate co-located space objects

Features

- Multi-core processing
- Optimized maneuver solution with full filter/smoothing processing
- Full control of algorithm settings
- Graph residuals and ephemerides in multiple reference frames

