

TELECOM OPERATORS GROUND SEGMENT MARKET LEADERSHIP



ANY MISSION LEO/MEO/GEO/HEO



FROM ONE SATELLITE TO MASSIVE FLEETS



DAILY MONITORING FOCUS ON SAFETY



WE FIT TO CUSTOMER NEEDS



HALF OF THE TOP SATELLITE OPERATORS COUNT ON OUR PRODUTCS

#### Focusoc TEAM



## Focusoc

A product by:

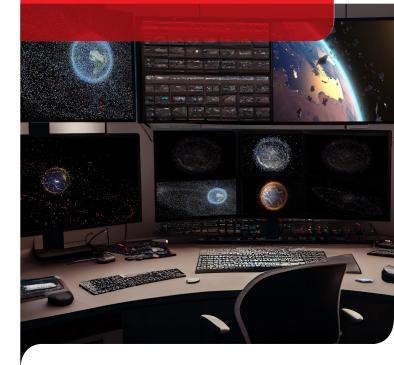


For more information about Focusoc services: focusoc@gmv.com

Product Info at: www.gmv.com/en-es/products/space/focusoc

# Focusoc

## *Focus* operations centre for collision avoidance





#### What is *Focusoc*?

GMV's Focusoc provides Collision Avoidance services for safety of flight. It uses operational Closeap and Focussuite® tools.



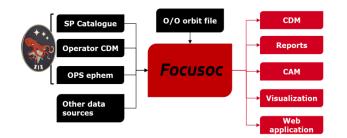
Usage of O/O operational orbits.

Automated screenings.

19SDS SP catalogue, CDM and public files.

Collision Avoidance manoeuvres.

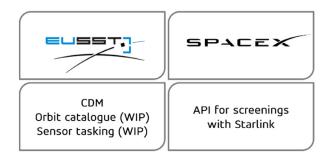
Web application and API.



#### SSA data in *Focusoc*

- Validity of SP catalogue extended to 15 days in GEO.
- Mini catalogue propagated from 19SDS CDM.
- Operational public files including SpaceX, OneWeb, Planet, Iridium, HawkEye, Telesat, etc.
- Support to operations through optical tracking.
- Passive RF data from in-house sensor: Focusear.

In constant search of new data sources:

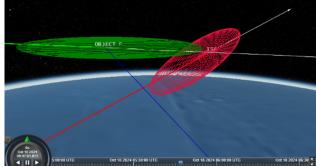


#### Focusoc for CA

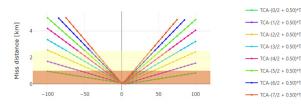
Focusoc performs all Collision Avoidance operations for your fleet.

- Middle-man processing (CDM handling).
- Multiple sources of orbital information: OEM, OPM, CDM, TDM, TLE, custom formats.
- Generation of CDM, conjunction reports and conjunction database with 3D visualization.





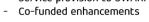
- Computation of the Probability of Collision (PoC) and Scaled PoC.
- Collision Avoidance Manoeuvre (CAM) assessment, selection of optimal CAM and post-CAM screening.



- Regular comparisons between 0/0 ephemeris and SP catalogue, assessing O/O orbit quality.
- CCSDS standards and custom formats.

#### Focusoc key features







### Focusoc roadmap

#### Horizontal scaling & Megaconstellations



Container-based.

Global metrics for big fleets.

Automated constellation operations.

#### Horizontal scaling & Megaconstellations

o — Catalogues

> Support tracking



Operational orbits

#### Transition from space-track to TraCSS

