

# SPACE DOMAIN AWARENESS



**EOS is a global leader in space and defence technology, powered by Australian innovation**

**For over 35 years EOS has been at the forefront of technical innovation in space and proud advocates for Australia's contribution to the international space sector. Today, EOS is using this Aussie ingenuity and know how to produce highly accurate Space Domain Awareness data over thousands of space objects for commercial and defence customers.**

**Our success is underpinned by:**

- Our skilled workforce and intellectual property developed wholly in Australia
- Our proven sensors and infrastructure that spans coast to coast across Australia
- Our collaborative partnerships across government, Australian business, academia and research institutions

EOS is committed to growing and inspiring the next generation of Australia's space workforce by investing in STEM initiatives and championing the development of women in STEM through scholarships and workforce programs.

**[EOS-AUS.COM/SPACE](https://eos-aus.com/space)**

# SPACE DOMAIN AWARENESS



As an Australian-owned company, EOS has been proud to support the Australian Department of Defence in Space Domain Awareness (SDA) programs for over 15 years. Through a proven network of passive and active optical SDA sensors, EOS can cover all orbit regimes from LEO to GEO with unrivalled accuracy over the many thousands of space objects. Having highly accurate SDA data enables better intelligence for protecting Australia's space assets and enabling our Space Domain operators to shape, deter, respond.

EOS' products are mature and interoperable with allied systems. Its Conjunction Analysis and Threat Warning (CATW) system uses available data sources as well as a high accuracy catalogue data to provide realistic, and actionable data for satellite operators. High accuracy follow tracking can be provided to refine collision probabilities.

## SDA SERVICES

- Independent space object catalogue
- Optimised sensor scheduling
- Reliable and accurate track correlations
- Conjunction assessments and proximity warnings
- Ephemeris generation and prediction
- Object characterisation and identification
- Data analytics, machine learning and artificial intelligence
- Simulation tools for mission planning and capability assessment

## DATA SERVICES

- Accurate tracking: LEO to GEO and beyond
- Taskable network of sensors / sensor cueing
- Tracking: daytime / passive / emergency requests
- Region search, object detection and tracking
- Satellite and debris laser ranging
- High-rate image capture



**EOS' HIGHLY ACCURATE SDA DATA ENABLES BETTER INTELLIGENCE**

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