

Delivering **PROXIMITY EFFECTS** *in-orbit*

RMTS

CRITICAL MODULES

PUMA

Planning Utility for Manoeuvre Analysis

Operational manoeuvre planner and primary flight dynamics commanding subsystem. PUMA translates RMTS' intelligence into actionable manoeuvres.

VIPR

Visual Imaging and Processing

Receives payload image data for on-board processing and provides target data to be used by other modules such as APES.

APES

AON and Pose Estimation Subsystem

Performs Angle Only Navigation (AON) by calculating orbital parameters of the target relative to your spacecraft, using target data from VIPR and enhanced with available Space Situational/Domain Awareness (SSA/SDA) services.

TOAD

Trajectory Optimization and Design

Responsible for the long-term mission trajectory design from launch injection to demise, TOAD works closely with PUMA.

CHETA

Counter-Hostile Evaluation and Tactical Activities

Module for Defence specific close-range manoeuvrability, which is critical for supporting SDA and Space Control applications, utilising orbital mechanics and ground - or space-tracking systems.

Fly closer than ever before

THE RMTS

RPO Management Training System

SAFE, SECURE and SUSTAINABLE RPO

The RMTS is the brain behind Astroscale's world leading capability to perform Rendezvous and Proximity Operations (RPO). With flight heritage and more demonstrated commercial RPO experience than anyone in Europe, use the RMTS to achieve on-orbit agility and deliver payloads and sensors exactly where they need to be.

TRUSTED and SECURE

RMTS is developed using a neural network incorporating AI principles, enhancing operational efficiency and accuracy. Able to react dynamically to off-nominal situations, The RMTS improves decision-making through real-time data analysis, allowing you to deliver complex spacecraft operations with confidence.



Safe, secure and sustainable development of space for the benefit of future generations.



WORLD LEADING TEAM

Astroscale UK's RPO team are world leaders in non-cooperative RPO missions, offering a truly nationally separate solution to support Space Control. With 40+ engineers in the UK who work in this area alone, Astroscale can support advanced RPO development for defence in a secure environment. The team are armed with alumni from world leading aerospace academic and professional

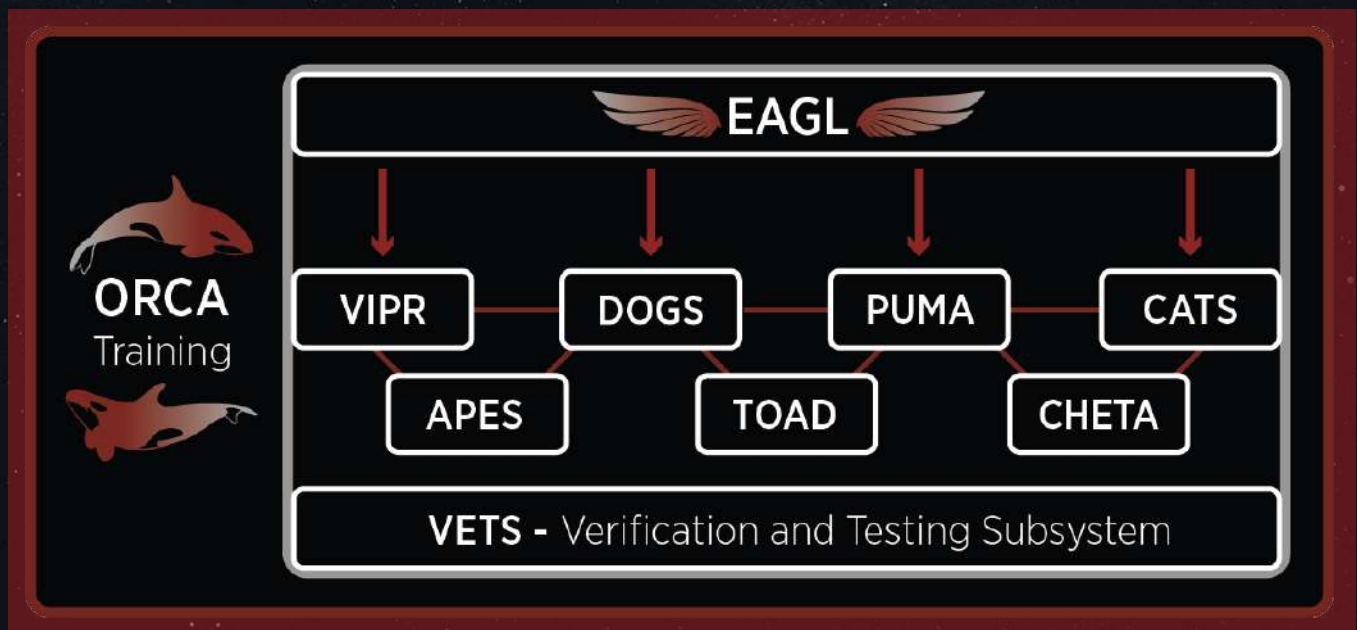
institutions and are continuously designing & testing the necessary tools to achieve successful missions no matter the orbit, no matter the craft.

ORCA - TRAINING

Operations Resourcing, Coordination and Activities

This overarching module supports training and wargaming activities, allowing Defence customers to derive better understanding and intelligence of RPO missions. This enables the Space Warfighter to work towards an independent RPO capability in a live operational environment.

THE SYSTEM



Safe, Secure and Sustainable. Astroscale Allied.



The MARKET LEADER for IN-ORBIT SERVICING

Astroscale is a pioneering provider of Life Extension, In Space SSA/Inspection, Orbital Transfer, Active Debris Removal, and Refueling & Maintenance services.



Operations across all orbits for commercial and government clients around the world



Flight-proven engineering expertise in systems integration, RPO/GNC, robotics, autonomy, and dynamic mission operations



Contracts with leading space actors, including JAXA, UK Space Agency, UK MoD and Japan Ministry of Defense

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