

Brief of Development of Orbital Transfer Vehicle for Space Debris removal in LEO

With the number of satellites being launched by private industries worldwide, the risk of debris and its management will be a major challenge in future. There is a need to develop an OTV which can be operated in space for debris removal. This would require a space vehicle to undertake close proximity operations and development of associated guidance system for autonomous/ semi-autonomous operations. As per the debris detection, the OTV should be capable of shifting from one orbit to other in LEO. The challenge includes development of sensors such as LIDAR, EO etc and associated ground systems.