

14TH IAA SYMPOSIUM ON SPACE DEBRIS (A6)  
Space Debris Removal Concepts (6)

Author: Mr. Aurelien Pisseloup  
EADS Astrium, France, aurelien.pisseloup@airbus.com

Dr. Stéphane Estable  
Airbus Defence & Space, Space Systems, Germany, stephane.estable@airbus.com

Mrs. Katherine Pegg  
Airbus Defence and Space (DS), Germany, katherine.pegg@astrium.eads.net

Mr. Eugenio FERREIRA  
France, eugenio.ferreira@airbus.com

Mr. Rémi DELAGE  
France, Remi.DELAGE@airbus.com

Mr. Jean-Michel PAIROT  
France, Jean-Michel.PAIROT@airbus.com

Mr. Thierry Salmon  
Airbus Defence and Space (DS), France, THIERRY.SALMON@astrium.eads.net

Mr. Andrew Ratcliffe  
Airbus Defence and Space (DS), United Kingdom, Andrew.RATCLIFFE@astrium.eads.net

Mr. Michel FREZET  
France, Michel.FREZET@airbus.com

Mr. Detlef Wilde  
Airbus DS GmbH, Germany, detlef.wilde@airbus.com

Mr. Rodrigo da Costa  
Airbus Defence & Space, Germany, Rodrigo.dacosta@airbus.com

AIRBUS DEFENCE AND SPACE'S VISION AND ACTIVITIES IN ACTIVE DEBRIS REMOVAL AND  
ON-ORBIT SERVICING

**Abstract**

Airbus Defence and Space have been very active in Active Debris Removal since the early 2000's and have worked extensively for ESA, DLR, CNES and through internal RD. Amongst others, Airbus DS are currently studying the e.deorbit mission for ESA (phase B1 ongoing) and are one of the major contributor of the In-Orbit Demonstration mission RemoveDEBRIS sponsored by the European Commission and planned for 2017. The company is also developing key technologies for Active Debris Removal such as Vision Based Navigation for rendezvous and robotic arm, net and harpoon for capture. In synergy with Active Debris Removal activities, Airbus DS have also invested in the development of on-orbit servicing solutions at large. In particular, Airbus DS are currently developing a product line for space tugs aimed at satellite delivery and satellite servicing. Airbus DS will present: • Their global vision for Active Debris Removal and On-Orbit servicing • The key technologies under development at Airbus DS • The current activities at Airbus DS on Active Debris Removal (including e.deorbit and RemoveDEBRIS), • The current activities at Airbus DS on On-Orbit Servicing in particular the space tug product line.