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ULTRA-LOW ALTITUDE EARTH OBSERVATION SERVICES USING ON-ORBIT SERVICES

Abstract

The market for satellite life extension services is currently being established ahead of other on-orbit services. Satellite life extension services are currently provided by tugging, but it is expected that in the future they will be provided more efficiently and economically by in-orbit propellant resupply. This service, which started for geostationary satellites, will be applied to low earth orbit in the future and is expected to become more valuable in business scenarios where it is used in combination with very low altitude earth observation satellites. This document proposes an alternative system to the conventional expensive large observation satellites, and presents a service that provides inexpensive, high-resolution, high-frequency, and in the future, real-time information by small satellites.