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Strategic Risk Management for Successful Space & Defence Programmes (4)

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RISK MANAGEMENT FOR SPACE OPTO-MECHANICAL INSTRUMENTS FROM PROPOSAL TO
END OF LIFE.

Abstract

There are a wide range of opto-mechanical systems in space instruments, ranging from high spatial resolution land imaging systems, to daily global atmospheric monitoring imagers. These can be located in a variety of orbits from LEO to GEO each of which carries unique challenges for implementation, which necessarily carry with them risks in their implementation for the missions. The paper will discuss how risk management is tailored for specific instrument sub-systems, considering technical and programmatic challenges in developing state of the art opto-mechanical systems for future space missions. The evaluation of risk throughout the product life cycle from initial design through the operational phases to end of mission will be discussed.