

66th International Astronautical Congress 2015

SPACE SYSTEMS SYMPOSIUM (D1)
System Engineering - Methods, Processes and Tools (1) (3)

Author: Mr. Giancarlo Filippazzo
ESA, Italy, giancarlo.filippazzo@esa.int

LARGE SPACE SYSTEMS RISK, SCHEDULE AND REPORTING COORDINATION

Abstract

Large Space Systems require extensive system level coordination. In particular the evolution of system risks, schedule and requirements need be constantly monitored and managed. To do so, information flow and reporting is crucial. This paper illustrates the methods and tools developed to coordinate a large earth observation system of systems programme. More specifically, a centralised Risk Repository was developed to collect analyse and report risks, a Master Schedule was assembled from individual system elements and regularly updated, and specific reporting guidelines were devised to properly plan report drafting, review and the internal approval processes to meet stringent time and content constraints. The creation of the above processes and tools allowed to systematically collect schedule and risk information allowing for trend analysis and the development of parametric tools supporting future architecture optimisation and analysis.