

SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM (B2)
Fixed and Broadcast Communications (4)

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THE VEGA TELEMETRY SYSTEM

Abstract

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THE VEGA TELEMETRY SYSTEM

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Mostly known in the aeronautical sector, the French company Dassault Aviation also leads space activities as aerospace vehicles studies, pyrotechnics activities and telemetry systems. The topic of this paper is to present the telemetry system for the new Vega launcher. The use of telemetry system during flight testing of civil and military aircraft is a daily activity at Dassault Aviation's Istres Flight Test Center in the south of France. Based on these skills, the company has a long commitment with French space agency CNES to provide ground telemetry systems to Ariane family launchers. In 2007 and 2008, CNES awarded Dassault Aviation respectively to adapt the Ariane-5 system for the Russian Soyuz launcher and the European Vega. This paper describes especially the telemetry system for the new Vega launcher designed by the Istres team. This system provide informations to the safety officer (who is responsible to destroy the launcher in case malfunction or wrong trajectory) and to understand after the flight why a problem might have occurred.