

Activity Title:	Converters and Local Oscillators for Flexible Payloads			
Contract type	Artes 5.1	Budget (/	k€)	1500
Company (-ies) (including country)	Thales Alenia Space Italia			
Team (name of the participants in the project)	Alessandro Barigelli, Antonino Massari, Maria Celeste Russo, Andrea Suriani, Francesco Vitulli			
(*) Speaker (s)	Francesco Vitulli	Email	france	esco.vitulli@thalesaleniaspace.com
Short Speaker Information (experience and involvement in this project – maximum 60 words)	Francesco Vitulli is presently Head of the Advanced Study Unit within the Research & Development Division in Thales Alenia Space Italia, based in Rome. His research activity is focused on the development of advanced Equipment's and Functional Modules for future Satellite Communication Systems. For this project he has supervised the design development and the manufacturing of the Prototype unit.			
Summary of the activity (maximum 400 words and 2 pictures)	This project has been aimed both at the fabrication of a full engineering model of a flexible frequency converter, conceived for flexible telecommunication payload and at the fabrication of European state-of-art large band VCO MICs performing low phase noise. All critical items have been bread-boarded and individually tested. A full engineering model of the converter has been manufactured, assembled and the tested, including the DC-DC converter and the TM/TC I/F circuit.			

(*) The speaker needs to do the registration through this website