Title:	***"Ka-Band TC ODmux"***		
Contract type	ARTES 3.4	**Budget** *(K€)*	**449 K€**
Company (-ies) *(including country)*	THALES ALENIA SPACE FRANCE		
Team *(name of the participant in the project)*	Jean Claude Lacombe Herve Dillenbourg Damien Pacaud Franck Bauduin		
(*) **Speaker (s)**	Damien Pacaud	**Email**	damien.pacaud@thalesaleniaspace.com
Short Speaker Information *(experience and involvement in this project)*	Senior RF Engineer in charge of Filters & Multiplexers studies and developments		
Summary of the activity *(maximum 400 words)*	Objective of the study : development and qualification of a Ka-Band TC 2 Channels ODMUX. The solution is based on TAS Ku-Band TC OMUX background The main goals are : • 237 MHz bandwidth (6 poles) • Optimized in mass and footprint (30% savings) for broadband payload. • Medium power per channel : 170W (specified) and 250W (design goal) • RF performances improvement thanks to a reduced frequency shift over temperature (lower than 1 MHz). Full aluminum design except for channel compensation system. Non compensated aluminum manifold with stacked output Low Pass Filter. The channel filter compensation is tuneable during equipment mounting phase. 		

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