Thales Alenia Space Optical Communications Products

July 12th 2017





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OPTEL-µ®

Ref = 83230347-DOC-TAS-EN-00

Optical downlink to increase the mission data return for small satellites (target: high performance imaging systems)

System consisting of a Space Terminal (8kg, 8l, 45W) and a Ground Terminal (0.6m telescope) for 2Gbps data rate

Modular design for large customer base and for evolutions (technology and applications)

Development carried out in the frame of ARTES with a team of European Partners

High data security and shorter implementation timeframe (no need for frequency filing)

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A development reaching completion and a product getting available!

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OPTEL-µ[®]: getting ready for In Orbit Demonstration



STM integrated and tested on the satellite



Ground Prototype in set-up and testing

Many building blocks available for other applications

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late Ref.= 83230347-DOC-TAS-EN-004

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Development in a market driven approach



A development reaching completion and a product getting available!

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Building Blocks

Hardware elements

Processes

Verification competences

People



Partners

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Foundation elements for a design to cost which needs to meet the Customer's business case

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Challenges in product development



ScyLight one of the means to support industries with building blocks and challenges!

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Thank you !