

IAF SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM (B2)  
Advances in Space-based Communication Systems and Services, Part 2 (3)

Author: Mr. Matthias Motzigemba  
Tesat-Spacecom GmbH & Co. KG, Germany, matthias.motzigemba@tesat.de

BROADBAND OPTICAL COMMUNICATION TERMINALS FOR CONSTELLATIONS IN  
OPERATION

**Abstract**

LEO Satellite Constellations for serving global broadband connectivity are in realization. The links between these communication satellites are made by optical communication. This provides high data rate like fiber on earth and robust service. The presentation give an insight how mature the technology is and how the operation and building blocks are working. TESAT is the technology and market leader in laser communication technology and gives an overview of running programs and key features. Also an outlook of new applications like Airborn Connectivity and Quantum Key Distribution QKD will be provided.