

# In-flight Connectivity Analysis Using Ka & Ku-band HTS with Hybrid Compatibility Solution

Behzad Koosha<sup>1</sup> and Hermann J. Helgert<sup>2</sup>

<sup>1</sup>Affiliation not available

<sup>2</sup>The George Washington University

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## Abstract

In this paper, we propose a connectivity analysis solution to integrate satellitebased ground gateways with terrestrial networks capable of transmitting Terabit/ s of data throughput to fast moving narrow body and wide body planes. Taking into consideration the need for higher bandwidth and lower latency communication, we propose a gateway connection for backhauling traffic through terrestrial base stations. These satellite gateway feeder links will significantly improve overall throughput by utilizing fee

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