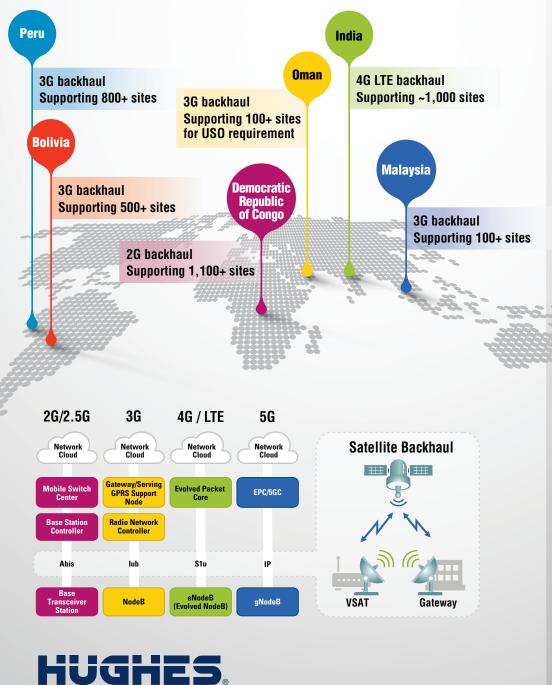
Cellular Backhaul by Satellite

Backhauling More than 10,000 Cellular Sites across Africa, Asia and Latin America with the Hughes JUPITER System

For mobile operators looking to expand networks or meet Universal Service Obligations (USO), reaching new markets in ex-urban, semi-rural and rural areas is a challenging necessity. These markets are often located in areas where terrestrial fiber or microwave services are not readily available to support the backhaul links for base stations. Backhaul by satellite using the Hughes JUPITER™ System offers a low-cost and effective means for interconnecting cellular base stations, regardless of distance, infrastructure, or terrain.





Advantages of the JUPITER **System for Cellular Backhaul**



Approximately 10 ms jitter

Laver 2 transport for seamless integration



Integrated

acceleration supporting 16,000 simultaneous TCP sessions

Optional all-outdoor solution meets **IP-67** standards for protection against dust and water

Precision Timing Protocol using integrated GPS to synchronize base station with core

Optional DVB-S2X return channel

for very high speed sites

Low power consumption suitable for solar power

An EchoStar Company