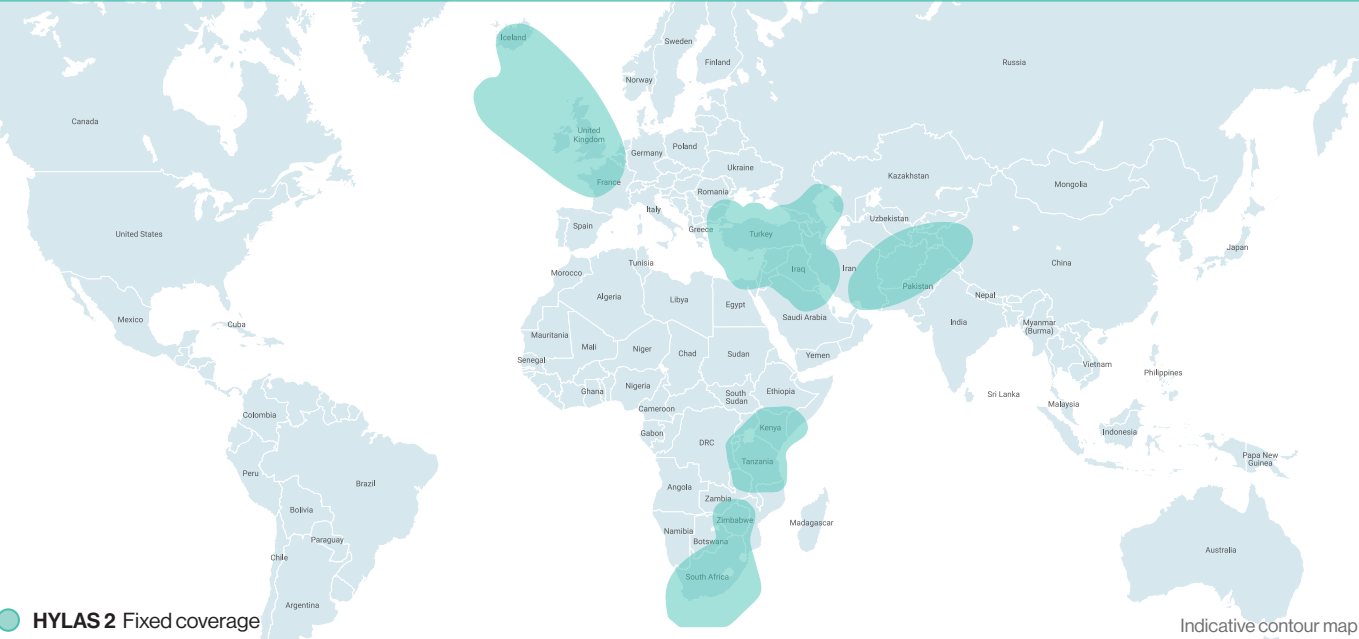




HYLAS Fleet Satellites Specifications

HYLAS 2



Launched in 2012, HYLAS 2 uses high-throughput Ka-band technology. The spacecraft has 24 fixed beams and one steerable beam, addressing markets across Europe, the Middle East, the Caucasus and Africa.

Satellite Specifications

Orbital Location	31° E
Fixed Capacity	10.8 GHz
Steerable Capacity	920 MHz
Fixed Beams	24
Steerable Beams	1
Polarisation	Circular

Fixed User Beams

Beam Performance

EIRP (at edge of coverage)	> 58.0 dBW
G/T (at edge of coverage)	> 11.5 dBW

Steerable Beams

HYLAS 2's steerable beam can be steered to anywhere on the earth's disk with visibility from 31°E.

Beam Performance

EIRP (at edge of coverage)	> 54.0 dBW
G/T (at edge of coverage)	> 7.0 dB/K

Steerable Beam Functionality

Mode of Operation	Gateway to User or Loopback
Steering Function	Frequent Steering
Steering Commanding	Secure Customer Ticket or Secure API

HYLAS 3



Launched in August 2019, HYLAS 3 is a steerable cluster of 8 beams that can be steered to anywhere within the 31° E coverage zone, providing flexible and high throughput connectivity across EMA and part of Asia.

Satellite Specifications

Orbital location	31°E
Steerable capacity	4.11 GHz
Steerable beams	8 beam cluster 1 Gateway Beam
Polarisation	Circular

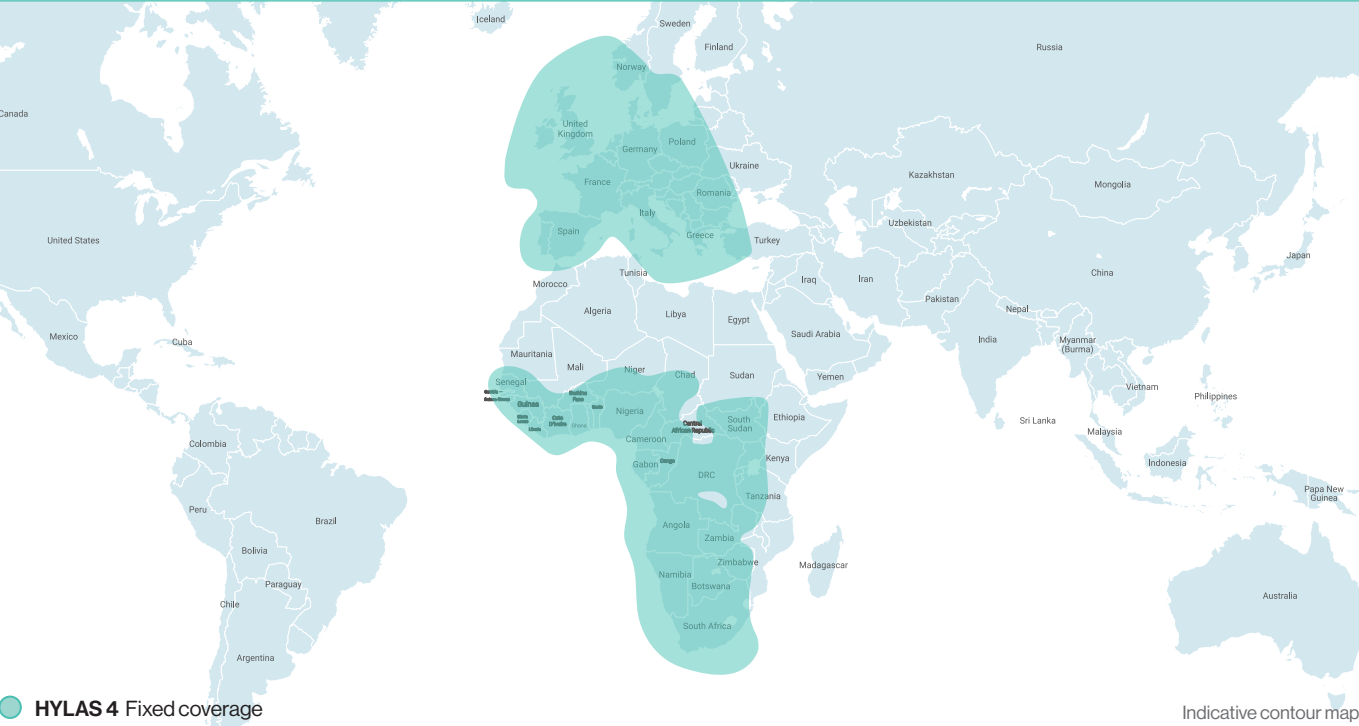
Steerable Beam Performance

EIRP (at edge of coverage)	> 58.0 dBW
G/T (at edge of coverage)	> 11.0 dB/K

Steerable Beam Functionality

Mode of Operation	Gateway to User
Steering Function	Occasional Steering
Steering Commanding	Secure Customer Ticket

HYLAS 4



Launched in April 2018, HYLAS 4 doubles our capacity over EMEA. Using the latest Ka-band technology, it has 64 fixed beams serving Africa and Europe, as well as four independent steerable beams able to be steered anywhere visible on the Earth's disk from 33.5° W.

Satellite Specifications

Orbital location	33.5°W
Fixed capacity	24.64 GHz
Steerable capacity	3.68 GHz
Fixed beams	64
Steerable beams	4 Independently Steerable
Polarisation	Circular

Fixed User Beams

Beam Performance

EIRP (at edge of coverage)	> 59.0 dBW
G/T (at edge of coverage)	> 13.0 dB/K

Steerable Beams

Beam Performance

EIRP (at edge of coverage)	> 54.0 dBW
G/T (at edge of coverage)	> 7.0 dB/K

Steerable Beam Functionality

Mode of Operation	Gateway to User or Loopback
Steering Function	Steering to track objection in motion to Mack 1
Steering Commanding	Secure Customer Ticket or Secure API



Be More.

Contact



avanti.space



contact@avanti.space



+44 (0) 20 7749 1600