

Case studies

The Thuraya-4 Next Generation Satellite will deliver higher capabilities and flexibility while increasing capacity and coverage across Europe, Africa, Central Asia and the Middle East, enabling next generation mobility solutions for all customer segments, including defence, government and enterprise.

Pioneering

next generation mobile
telecommunications system



GEO satellite based on the high power, all electric Airbus Eurostar Neo platform that offers an optimal combination of flexibility, efficiency and capability

Incorporates a large 12-metre L-band unfurlable reflector and latest-generation of digital signal processor developed by Airbus

Capable of full payload flexibility, including coverage, frequency and power allocation

Payload capacity supports ~3x the number of users compared to previous generation Thuraya satellites

Launch mass

~5 tonnes

Spacecraft power

>12kW

Data rate capability

>1Mbps



Satellite Technology. Critical Communications. Human Progress.

In 2020, the decision was made to procure a new satellite system – the Thuraya-4 Next Generation Satellite (NGS) – to further develop and enhance our services as part of a programme to modernise and upgrade our Mobile Satellite Services (MSS) space and ground assets as well as our mobile product and solution portfolios.

Delivered through partnerships with companies such as Airbus, SpaceX and Cobham, Thuraya-4 NGS will allow Yahsat to grow across new and existing product lines to deliver higher capabilities and flexibility while increasing capacity and coverage across Europe, Africa, Central Asia and the Middle East to serve all customer segments, including governments, enterprises and consumers.

The new capabilities will drive leadership across many strategic product lines, such as maritime, IoT and data solutions, offering a wide range of throughput capabilities and the highest speeds available in the market, while reinforcing Thuraya's strengths in the MSS voice market.

Despite the continued disruption experienced throughout the year, during 2021 we continued to commit significant investments to the programme, particularly in terms of the satellite itself, its related ground segment and other elements, including the launcher.

The programme remains on track, with the commencement of operations in 2024. This represents a major opportunity for our business, impacting all segments – from space and ground to user terminals and solutions. It is also underpinned by a 15-year UAE Government contract worth more than US\$ 700 million, commencing in 2024.

Building on our two existing MSS satellites – Thuraya-2 and Thuraya-3, Thuraya-4 NGS represents a crucial addition to the fleet that will allow us to continue to support our existing customer base with critical communications and applications, whilst also paving the way for the introduction of new offerings for our customers and distribution network.