

I6-GOV IOT

SYSTEMS VERIFICATION, VALIDATION AND TEST (VV&T)



GOVERNMENT SATELLITE IN-ORBIT TEST (IOT) SUPPORT

Our client, a global satellite network operator, required support in preparing and executing their I6F1 In-Orbit Test (IOT) campaign. Following the departure of their lead engineer, we were tasked with taking over the planning, management and setup of the campaign, as well as the operation of the IOT system (IOTS). Unlike previous campaigns, this IOT was measured from three different locations and contained a governmental customer as part of the payload.

Telespazio UK, through its recent acquisition of e2E, provided senior engineering resource to support a number of Work Packages related to the I6F1 IOT campaign. This included:

- › Designing and implementing a new measurement technique for measuring antenna patterns
- › Taking responsibility for the commercial upgrades of the IOTS system in Fucino and Nemea to allow resource spreading
- › Providing IOTS training and theory
- › Completing a Program Management review with a

third-party responsible for delivering upgrades to ensure readiness was met for IOT

- › Execution of testing at the Fucino and Nemea Ground Stations
- › Improving the customer's testing and operational processes
- › Procurement of testing equipment

Our support enabled the customer to carry out all planned tests with the upgraded entities and the antenna patterns, with the new implemented design, which is now being used across all IOTS sites for measurement capture. A redesign for the process off the IOT with rental units is now being considered as well as expanding our customer's internal process for future missions.