

# FleetEdge Automated Test Environment Satellite Network Operator

## About e2E

e2E provides communications systems engineering, technical support and expertise to clients in the satellite communications industry, in both defence-related and commercial domains. Our services are provided across the full system lifecycle.

## The Challenge

Our client, a global satellite network operator, has recently developed a novel approach to service provisioning for its maritime partners and end-users, through the adoption of a cloud-based applications platform which offers seamless services access over multiple satellite communication networks. Customer vessels are equipped with a bespoke satcom terminal which supports an open interface to allow their off-shore software applications to interwork with on-shore software services running with a cloud-based infrastructure. The offering of the 'Edge' applications platform can be at a wholesale level to Maritime Communication Service providers or supplied direct to retail customers. Key to efficient, high quality and cost-effective delivery of the platform and enhancement to users is an agile development and automated test and software deployment environment.

## The Solution

Our architects and senior systems engineers have created an efficient and Continuous Integration/Continuous Deployment DEVOPS environment, with development of automated tests and monitoring dashboards. Key

outcomes of this large project to our Client's edge platform were:

- ✓ Brand new CI/CD tool-chain and config/ control of software through containers (docker)
- ✓ New orchestration software developed using Kubernetes
- ✓ Innovative automated testing, in Python and Cucumber

## Customer Benefits

- ✓ A new dashboard supporting effective and resilient data collection and storage, integrating existing test results and report issues within the platform being used by wholesale users. This has in turn ensured scalability and modularity in the test environment.
- ✓ Greater efficiency in enabling a higher volume of changes to the customer in a timely manner.
- ✓ Significantly reduced time-to-market and better quality of service delivery.