

# ENGINEERING ASSURANCE

## SATELLITE COMMUNICATIONS

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### ASSURANCE OF COMMUNICATION SYSTEMS AND SERVICES

Telespazio UK, through its recent acquisition of e2E, provides suitable levels of evidence-based assurance associated with system operation and in-field performance of communication services against targeted performance criteria. Such activities typically encompass a planned set of functions and tasks that are used to provide visibility that the engineering procedures applied, methods used, processes followed, and regulatory conformance claimed can be substantiated with collected evidence. This evidence aids in providing confidence that the system and/or service offering conforms to specification and is felt to be fit for purpose.

Specific tasks associated with this assurance capability is tailored accounting for criteria such as the actual lifecycle stage, commitments made about the assurance provided and client expectations. In the case of service assurance then consideration is given to the communication services provided, associated service level agreement (SLA) criteria and overall resilience and

robustness.

Engineering Assurance encompasses a multitude of disciplines as applied to complex systems and services including:

- › Assurance definition, plans and use cases
- › Configuration management (software/hardware)
- › Quality assurance and control
- › Product Assurance
- › Auditing
- › Availability/Reliability Engineering Analysis
- › Failure Mode Effects Analysis (FMEA) and Failure Mode Effects Criticality Analysis (FMECA)
- › Fault Detection, Isolation & Recovery (FDIR) analysis and design
- › Maintenance and Support
- › Safety engineering
- › Security assurance