

AI AND AUTOMATED TECHNOLOGIES ARE ALLOWING OUR CLIENTS TO RAPIDLY EXTEND THEIR CAPABILITIES,

working with greater agility, innovation and efficiency.

One of our clients, a leading telecommunications company, is undergoing an exciting and challenging programme of change affecting more than 100,000 employees.

In 2022 we were approached with the challenge of designing and implementing a test lab infrastructure for their broadband services.

This formed part of their legacy technology evolution, seeing the telecom embracing the latest in automated solutions.

Specifically, they wanted to extend existing elements within the CPE environment to provide a completely automated and remotely operated test lab.

Responding to this request, our Projects Hub allocated an automation subject matter expert (SME), working to defined objectives.

Using modern continuous integration and delivery (CI/CD) practices we would enable the isolation of faults before a system test is started and reduce the end-to-end testing of any new firmware to two weeks.

Coordinated by the Project Hub, we overhauled hub development to include automation whilst providing a comprehensive test capability that can be utilised by any hub development team.

By automating the testing process, we made it more efficient, reducing the time and resources required for testing while improving the quality of the firmware and tests applied to it.

Project Objective:

To build on elements that have already been implemented within the CPE environment, extending these to provide a completely automated and remotely operated test environment that integrates LTE, DSL, G.Fast and FTTx. This will allow modern CI/CD working practices to be implemented for the development of both the firmware and the tests that are applied to the firmware. It will also eliminate the segregated approach to testing, providing a test capability which can be utilised by any hub development team, is flexible, extendable, reliable and cost-effective.