



telent's VoltServer solution allowed a new remote DSLAM cabinet to be installed that provided customers with access to NGA broadband for the first time

telent managed the project end-to-end using its own staff to specify, install, and commission a touch-safe electricity connection to power a new DSLAM cabinet. This overcame wayleave issues and minimised the need for full-scale civil engineering work.

Challenge

A group of customers in remote rural local were experiencing poor internet speeds. The service provider has a commitment to roll-out NGA broadband to rural areas, but these customers were too far away from the nearest street cabinet to benefit from the latest FFTC technology. This required a new DSLAM cabinet to be installed, but there had been delays in getting a power connection caused by wayleave issues. This had delayed bringing the new infrastructure online and had affected local customer satisfaction levels.

The situation required an innovative solution that would deliver electrical power to the cabinet and provide the desired level of service to its customers.

Solution

telent's VoltServer service was selected to provide an electricity supply to a new DSLAM cabinet because it minimised the need for civil engineering work and meant that the wayleaves that had been a significant bottleneck to the project were no longer necessary. The service wrap also simplified the power installation element activity for the service provider's network planning team by creating a single point of contact to manage the entire power supply installation process end-to-end.

In order to provide the new power supply, telent sent senior technicians to the site to specify an appropriate solution. This team worked closely with the client's network planning staff to ensure the solution was fit for purpose and complied with the necessary standards and procedures.

Client

Broadband Service Provider

Needs

To continue its roll-out of NGA broadband, a service provider required an electrical power source to run a new cabinet in a remote part of a rural county.

Solution

telent used its VoltServer service to specify, install, and commission a touch-safe electricity connection from an existing DSLAM cabinet to a new cabinet. telent engineers installed the new power cable in an existing telco duct, which significantly improved the time (and cost) to electrify the new infrastructure.

Benefits

- Removed wayleave barrier
- Coordinated service
- Utilised existing infrastructure
- Improved customer satisfaction

telent then utilised its innovative VoltServer technology to power the cabinet.

telent engineers installed a VoltServer transmitter unit into an existing DSLAM cabinet which already had access to mains electricity. Then a receiver unit was installed in the new DSLAM cabinet which translates the energy 'packets' sent by the transmitter unit back into standard power. As VoltServer is touch-safe, the electrical cable did not need to run through a rigid metal conduit or be armoured. This meant that telent's engineers could connect the transmitter to the receiver unit using a standard copper cable that was pulled through ducts that already held telecom cable and fibre.

The team at telent also coordinated the civil engineering activities, including traffic management and worked with colleagues from telent's Infrastructure Services team to fully commission the supply. The VoltServer end-to-end service perfectly met the service provider's requirement allowing it to bring its new piece of infrastructure into operation.

Benefits

Removed wayleave barrier: waiting for wayleaves to be granted significantly slowed down the ability to bring the new DSLAM cabinet into operation. VoltServer was run in the existing duct, which meant that the new electrical connection was established very quickly, without the need for additional wayleaves

Coordinated service provided: telent's end-to-end electricity supply connection service provided a single point of contact for the client's network planning team, which significantly cut down on the workload involved in powering new infrastructure

Utilised existing infrastructure: the touch-safe nature of the product meant that telent could run the electrical power alongside other cables in existing ducts. Plus, standard electrical cables were used, without the need to use heavy armoured cables. This reduced costs and improved efficiency

Fewer stakeholder disruptions: the fact that an existing duct was used meant that civil engineering disruptions were minimised. This cut down on disruptions to both internal and external stakeholders and reduced civil engineering activities involved in laying the new power supply

"telent's innovative VoltServer solution allows us to power assets by running electricity cables through existing ducting"

Testimonial

"We are committed to providing customers with a high level of service across the whole of the UK. This is why telent's innovative VoltServer solution is so important to us. telent provides an end-to-end electricity supply connection service wrap that gives us a single point of contact for our network planning team. I have also been really impressed with how well telent's innovative VoltServer solution allows us to power assets by running electricity cables through existing ducting and for the way that the team at telent have worked alongside us to support this implementation."

*Chief Engineer
Broadband Service Provider*

