

VoltServer

Providing an electricity supply to new telecoms infrastructure can result in significant delays and increased project costs. To address these challenges, telent has introduced digital electricity using VoltServer technology.

Telecom providers benefit from a remote power feeding solution for street cabinets and remote devices, delivered through existing ducts and infrastructure.

When telecom providers require a new electricity distribution connection they frequently have to wait for wayleaves to be granted and manage a variety of external contractors. This delays infrastructure installation. telent's new VoltServer service empowers telecom providers with an alternative to this traditional process. Remote devices with AC or DC loads are supported using touch safe power, which can run alongside existing telecom cables. telent manages the project end-to-end using its own staff to design, install, and commission the VoltServer solution. This significantly reduces the time to provide power to new infrastructure up to 2km away from an existing power source.

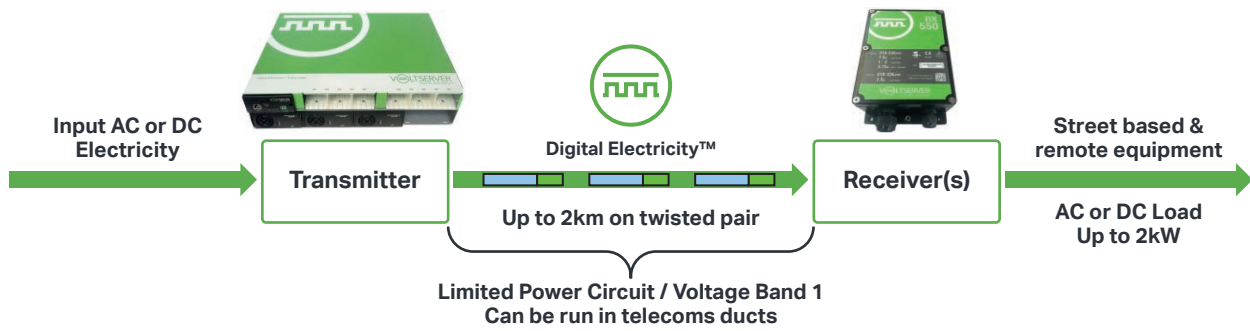
About VoltServer

telent's VoltServer service has been designed to provide telecom providers with a simple and efficient way to remotely power new street based and remote infrastructure. The end-to-end service provides a single point of contact for customers and makes the process to procure a new distribution connection easier. telent's engineers install the complete solution without the need to source new mains electricity connections, or additional certified electricians and reduces the need for civil engineering work.

This is possible because of telent's innovative VoltServer technology. It works by sending energy in 'packets' from a VoltServer transmitter unit to a receiver unit. Each packet of energy is verified and if there is a fault the transmitter

recognises this and stops sending energy packets. This provides a touch-safe electrical system that is capable of transmitting high power levels up to 2kW over distances up to 2km.

As a result, existing telecom ducts can be used to house the VoltServer connection, or where there is no ducting infrastructure to a site, then telent can arrange for the VoltServer cables to be micro-trenched or mole ploughed, saving full scale civil engineering works. The VoltServer solution also allows power to be safely delivered over regular copper cabling, with no requirement for shielding or conduit, which drastically reduces wiring costs and the weight of the cable.



Features

Benefits of telent's service

	Features	Benefits of telent's service
Turn-key solution	<ul style="list-style-type: none"> telent provides an end-to-end service for remote electricity supply connections for AC and DC loads. telent's engineers will specify, install, and commission a touch-safe electricity connection, managing wayleave applications and any necessary external contractors 	<ul style="list-style-type: none"> Provides a single point of contact for network planning teams, significantly cutting down on the workload involved in powering new infrastructure VoltServer can run in existing ducting, reducing wayleave requirements, so electrical connections and new infrastructure can be established quickly, improving customer experience
Touch Safe	<ul style="list-style-type: none"> The VoltServer system is touch-safe. This means it is safe to touch a live wire. If there is a wiring fault, short circuit, or a person touches the transmission lines, the transmitter recognises this and stops sending energy packets within 0.003 seconds 	<ul style="list-style-type: none"> This allows VoltServer cables to use existing ducts or to be micro-trenched or mole ploughed which means that civil engineering requirements are minimised to reduce costs, timescales and disruptions to internal and external stakeholders
Cost effective	<ul style="list-style-type: none"> VoltServer technology is classified as a voltage band 1 system which allows it to co-exist with telecommunications and IT cables and does not require installation by a certified electrician or the use heavy gauge power cables 	<ul style="list-style-type: none"> Lower contractor costs with no requirement to use certified electricians Lighter gauge cable may be used, this makes installations easier, particularly when powering a device above ground such as a mobile base station and drastically reduces the cost
Remote monitoring	<ul style="list-style-type: none"> The VoltServer system can be remotely monitored. The secure online dashboard allows customers to remotely turn power supplies on and off 	<ul style="list-style-type: none"> Provides a reboot feature for remote devices and alerts Network Operations Centres to faults on the line, creating reliable performance data.

Summary

VoltServer provides telecom companies with an end-to-end electricity supply connection service and utilises telent's innovative VoltServer technology. Unlike a traditional power solution the VoltServer system sends packets of electricity which are safe to touch, which means smaller cables can be used and run through existing duct work. This can

significantly reduce the time and cost to power new pieces of infrastructure by reducing civil engineering work (and the need for associated wayleaves to be granted). The service also simplifies the process for telecom companies and improves the quality of service delivered to end-customers when rolling out new products and services.