

Felix Telecom Strengthens Security by Upgrading Network Infrastructure in Romania

A Vertiv Case Study



Background

Felix Telecom has established itself over time as one of the leading providers of communications equipment in Romania. Currently focusing on the development and implementation of complex computer networks and telecommunications systems, its portfolio ranges from system design and application development to equipment installation and service.

When a pivotal organization in the Romanian public sector contacted Felix Telecom to upgrade its communications and surveillance equipment, they chose Vertiv to help accomplish this goal.

The two partners upgraded the organization's telecommunication network with new power technology and supporting infrastructure, including AC-powered data and security equipment and DC-powered radio equipment.



THE RIGHT CHOICE IN COMMUNICATIONS

Company Profile:

A leading provider of communications equipment in Romania, currently focusing on development and implementation of complex computer networks and telecommunications systems.

Industry:

Information, Technology and Communication (IT&C)

Region:

Bucharest, Romania

Challenge

As security operations require continual equipment availability, the organization sought to deploy a power distribution solution that would provide battery backup capabilities when local utilities experienced unplanned downtime. Additionally, the organization sought to rapidly deploy a converged network while also minimizing costs.

Since it would be deployed in space-constrained environments, the new power solution also had to be limited to one rack, with a maximum of 6U form factor for the system and electrical distribution. In addition, it should be scalable, with the ability to increase both AC and DC power and distribution capacity in the future.

Finally, the new solution should be fast and easy to install.

Solution

Felix Telecom chose Vertiv as its key supplier for this infrastructure, deploying the Vertiv™ NetSure™ Inverter System as a converged AC and DC power system. The solution provides a single interface for both rectifiers and inverters, simplifying remote monitoring and management duties and minimizing the need for site visits.

The NetSure™ Inverter design powers AC and DC loads in a single subrack with a common battery bank, providing redundancy and simplifying installation. The inverter solution maximizes site availability with zero transfer time from grid to battery. It also minimizes energy loss with inverters that operate at up to 96.3% efficiency in normal AC-AC mode.

Results

With the NetSure™ Inverter solution, the organization gained the ability to control both AC and DC power loads from a single controller, an improvement over its previous solution, which required separate units. The inverter system also has a smaller form factor that saves space in the rack for additional equipment that can also be extended in the future.

The NetSure™ Inverter uses three strings of 100 amp-hours (Ah) to provide four hours of battery backup for 500 watts of AC load and 3 kilowatts of DC load, ensuring operations can continue during outages.

Additionally, the customer benefited from cost savings due to rapid installation at 300 locations over the span of just six months.

Versatile, high-performing, and space-saving, the NetSure Inverter System provides a scalable solution that will now be replicated in other countries.



Vertiv™ NetSure™ Inverter Series
Converged AC and DC Power System