



commtel™ case study

nms for the future

breathing new life into an established network and paving the way for future growth

The pace of technological innovation means that modern telecom network management platforms are defined by the constant need to support legacy and modern telecom equipment within one composite NMS platform. CommTel helped a UK based energy provider to overcome this challenge by delivering a platform that supported their legacy telecom equipment and established a foundation to support their future integration of cutting edge telecom equipment and technologies in one NMS platform

A leading UK energy provider has been active for more than two decades. As a principal transmission network provider it is responsible for the distribution of electricity to 3.5 million homes and businesses across the UK region.

This large geographical network consists of 2 control centres and over 65 sites, containing more than 300 equipment racks and 6,000 individual devices. Supporting this multitude of network components is a wide variety of technologies from different

manufacturers, including copper, optical fibre, microwave PDH, SDH and IP.

This network complexity and age variance in composite equipment necessitated the implementation of a network management platform that could give system-wide oversight and monitoring capabilities, while still being able to accommodate both legacy and modern equipment/technologies.

CommTel emerged as the best

candidate to provide the company a solution to upgrade its network and lay the foundation for future expansion.

Making the switch

As well as providing a platform that could effectively incorporate both legacy and modern equipment, CommTel also possessed the knowledge and project management experience to handle a challenging live system cutover from their existing NMS.

The customer selected the CNMS-NG platform, because it is capable of integrating multiple technologies whilst supporting a diverse range of vendors. In addition CommTel's experience in successful live system cutovers was a valuable asset when it came to migrating from the old NMS platform to the CNMS-NG platform.

For the successful implementation of this project, it was essential to have a proven track record for such projects.

Further ensuring complete user acceptance for the platform was also a pressing issue, as the success of the project depended on the network operators being able to gain optimal usage from it directly. This therefore called for a high level of user training

Objective

- Cutover from Legacy to Modern NMS Platform
- Support legacy and modern telecom equipment/technologies Build in scalability to the system
- Build in scalability to the system

Solution

- CommTel - CNMS-NG NMS/OSS platform
- Live cutover and network migration from old NMS platform
- User training and 24/7 support helpline

Solution

- Successful integration of legacy and modern equipment onto one composite platform
- Highly resilient NMS architecture
- Effective, real time system monitoring and assessment
- Inbuilt network scalability to add different equipment/technologies



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and customer-specific platform customization.

A Comprehensive Solution

The CNMS-NG platform formed the core of the solution provided by CommTel. This platform provided the following benefits. Firstly, it allowed them to combine their legacy telecom equipment and modern equipment into one composite platform. The second major benefit was that the CNMS-NG provided a NMS tool for three key user profiles, namely; Network Operators, Senior Management/Subject Matter Experts and Network Planners. Network operators are now able to monitor the system in real time and detect and react to problems more efficiently.

Senior management/Subject Matter Experts can generate reports on trends on the health of the network or how assets are being utilized at any time, meaning that resources can be actively targeted. Network planners can accurately assess how the network is growing and have an accurate visibility of the current deployment of equipment.

By simultaneously optimising system oversight and responsiveness for these three key user profiles, the CommTel platform has revitalized an ageing network while also laying the groundwork for future growth.

The implemented architecture is highly resilient, which provides for multiple site redundancy and synchronous databases, spread across different geographic locations within the UK.

Increased benefits

The CommTel's collaboration with the provider on migrating from their old NMS and implementing a new platform has yielded a number of successes. When the project began its initial phases, the energy company were operating a system with a 1,000 network element capacity. Due to the scalability built into the upgraded system, the network capacity has

doubled to over 2,000 network elements in little over a year and a half.

The improvements made in alarm management and the overall ability of key users to monitor and evaluate the health of the network will flow through into an increased ability to maintain network stability. The CNMS-NG platform has become a key tool to make sure that they continue improving their network's reach and their end service quality.

The success of the project centres on the way in which CommTel was able to combine its industry experience and the strength of the CNMS-NG platform, to deliver a customized next generation NMS platform.

By implementing a highly resilient NMS platform architecture that was able to successfully integrate legacy equipment with the latest technology in one composite system, CommTel has helped the energy provider to ensure that it is always aware of the health of its network, how its resources are being utilized and what paths lay open for further network expansion.

About Commtel

CommTel is a leading international provider of advanced and engineered solutions for mission and business critical networks. We are a technology integrator, specialising in the delivery of network solutions that ensure the reliable delivery of vital services such as water, gas, electricity, public transport, and emergency services.

CommTel is widely known for innovative technology solutions, providing the network infrastructure and associated applications that optimise existing networks, as well as delivering digital transformation programs that provide a seamless transition from legacy to new technology.

Businesses in the mining, transport, oil & gas, utilities and emergency services sectors rely on CommTel as their trusted, long-term partner to ensure their systems meet their exacting requirements in the critical areas of safety, reliability, capacity, efficiency, intelligence and security. CommTel is certified to the highest international standards for Security, Health & Safety and Quality, and maintains a strong commitment to the environment.

To find out more about how CommTel can take your business into the future, visit www.commtelns.com



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