

## Cambridge University's eScience Centre chooses Codian video conferencing for CancerGrid

### eScience and the CancerGrid project

One in four people will be diagnosed with some type of cancer during their lifetime. The aim of personalized medicine and CancerGrid is to help prevent, diagnose and find a cure for this devastating disease. CancerGrid is a consortium of specialists in oncology and software engineering drawn from five leading UK Universities, including Cambridge, Oxford, Birmingham, University College London, and Queens' University Belfast. The CancerGrid project will deliver a working services-based grid infrastructure for cancer clinical trials. Through this project, universities plan to deliver modular, distributed software solutions for key issues facing clinical cancer informatics: clinical trial patient entry, randomization and follow-up; storage and analysis of complex datasets; and linking trial and epidemiology data with profiling information.

### The challenge

With hundreds of patients being recruited for each trial, the CancerGrid will ultimately remove the burden of legacy methods of research. However, for this to happen, it must have the tools needed to communicate on a daily basis with patients and clinicians at all five universities, analyzing patient information, and the associated pathology information. A key member of the consortium, the Cambridge University eScience Centre, was chartered with developing new generic grid-based tools for data handling and communication across wide area networks. This included selecting a video conferencing infrastructure that would provide a powerful, easy to use, cost-effective solution for consortium partners to collaborate on issues and to share imaging data.

According to Kate Caldwell, Telemedicine Developer at the Cambridge eScience Centre, "We wanted broader capabilities and flexibility for the CancerGrid project, and Codian was the answer. Once we saw the Codian product line, we knew it was exactly what we had been waiting for in a high-performance video conferencing solution. Frankly, we've been a bit surprised by the lack of development with other solutions."

### The solution

After a careful review of its products, the eScience Centre chose two of Codian's infrastructure products

**Codian MCU 4200 Series**, the first video bridge to maintain its port count, regardless of how a user connects to the video conference, the speed of the connection, the layout chosen, or equipment used.



**Customer:** Cambridge University eScience Centre, England

**Challenge:** A high-performance video conferencing solution for the UK CancerGrid project, for cancer clinical trials across five universities, 100s of patients, and more than a dozen clinicians.

**Solution:** The Codian MCU 4200 and the Codian IP VCR 2200 - the most advanced video conferencing infrastructure products available.

**Results:** This may completely transform the way clinical trials are conducted, greatly enhancing collaboration and communication by providing a feature-rich, cost-effective, and easy-to-use video conferencing solution.

**"The other vendor's products were just too limiting, and simply didn't offer the flexibility and control over their conferencing solution. Codian offers incredible value compared to other choices out there."**

Kate Caldwell, eScience Centre

**Codian IP VCR 2200 Series**, the industry's first digital video recorder and streaming server specifically designed for video conferencing.

As well as multi-site video conferencing the solution will be used for real-time delivery of microscope imagery and communication of radiological images.



# Customer Focus

## Cambridge University's eScience Centre

### Why Codian

According to Caldwell: "Codian has so many features inherent to its offering, things you simply can't find in other solutions, or if they are available, you pay dearly for them. Because it is endpoint agnostic, and continually leveraging the latest technology, we knew it would protect our investment — particularly as we continue to expand and evolve the CancerGrid. Some of the features like video streaming and the web conferencing will be key benefits for us."

Initially, the eScience Centre didn't set out to purchase the IP VCR, but once they saw it in action, Caldwell said, "We had to have this capability: we now have an IP VCR, and this will allow us to record specifics about clinical trial information, and demonstrate it for video conferencing to the CancerGrid members."

"For our clinical trials, the ability to preserve valuable content for future viewing is a key advantage for us. From a research point of view, we think the IP VCR will be a real enabler for us — allowing us to support multi-disciplinary meetings for the review of cancer diagnoses and treatment."

In addition to the IP-VCR, eScience found Codian's Firewall Option and the Auto Attendant feature simplified deployment and saved significant time.

"Codian's Firewall Option and the Auto Attendant made my life so much easier with regards to deployment: I just have to give people one dial-in IP address and the local LAN is protected so my IT guys don't care what I do outside of it. This alone saved us incredible time when we were deploying" said Cadwell.

"After viewing a demonstration of the Codian MCU, and really seeing for ourselves the brilliant, crystal clear video images and hearing the superior audio quality, we were impressed," explained Caldwell. "We also liked the user experience. It seemed highly intuitive and easy to use - so we knew right away our clinicians would be comfortable using it. Best of all, with Codian's solution, we can deploy the infrastructure anywhere we want."

### Key advantages:

Each participant receives an individual video conference connection, ensuring the best possible audio and video quality for the bandwidth.

Personalized experience, putting participants in control of their video conference.

Streaming video and content such as presentations to remote participants both live and as video on demand.

Unmatched ease of use, reliability, and ease of maintenance.

Investment protection and value by leveraging the latest technology.

### Extending video conferencing in the NHS

According to Cambridge's eScience Centre, if the CancerGrid is successful with Codian's video conferencing products, it could pave the way for its use for other clinical trials in cardiac networks, pediatrics, and pathology. Whether Codian's technology spreads across the National Health System (NHS), beyond the Cancer Grid, will depend on funding. The NHS is UK's primary health organization and the largest employer for doctors and nurses. Currently, video conferencing is not widely used in the NHS, however the deployment of Codian products may just change that situation.

### About the Cambridge eScience center

Find out more at [www.escience.cam.ac.uk](http://www.escience.cam.ac.uk)

### About Codian

Codian designs and manufactures the most advanced video conferencing infrastructure products available. Codian supports enterprise and service provider customers worldwide from main offices in San Jose California, London UK and Hong Kong. Codian's customer base includes Fortune 500 corporations, telecom service providers, educational institutions and government agencies. Find out more at [www.codian.com](http://www.codian.com).

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