

CUSTOMER SUCCESS STORY

LARGEST DCSM JOB EVER COMPLETED

Wales, April 2021 – In February of 2021 VISICS set out to implement the world's record Digital Confined Space Monitoring (DCSM) project to-date, covering 183 manways, for the largest refinery in Wales.

The design

The project consisted of 24/7 monitoring of 183 spaces, for the duration of 52 days.

During this turnaround, the VISICS system was monitoring heavy maintenance work and replacement of parts in towers.

For this project, 183 confined space systems, 13 monitoring rooms and 75 certified VISICS Operators were deployed.

The deployment was the first of its caliber on a global scale, and thus additional precautionary measures were taken to ensure connectivity and data reliability.

DELL Technologies, a VISICS technology partner, was consulted to help design the most reliable and redundant infrastructure solution possible, for DCSM (Digital Confined Space Monitoring).

The final infrastructure design consisted of redundancy applied at several levels within the system architecture: power, server resources and network backbone. Military grade fiber was also utilized to ensure speed and reliability of real-time data transfers. The fiber optic network was a ring configuration between two separate monitoring centers, at 500m distance from each other.

With this design, in case of a datacenter failure, the system will keep functioning as expected, **without any manual human interaction**, meaning chances of a stop of work scenario due to a technical interruption is virtually eliminated.

Exceptional outcomes

During this same deployment the client site experienced power failure. Under normal conditions this would have caused all confined space monitoring activities to go offline – leading to deploying traditional safety attendants to 183 confined spaces or a stop of work scenario.

The case:

- **Industry:** Refinery
- **Country:** Wales
- **Maintenance activities:** Heavy maintenance work and replacement of parts
- **Implementation partner:** ESS
- **Third party integrations:** Draeger

Thanks to the redundant network design of VISICS 2.0 **zero confined space monitoring activities were interrupted with the power failure**. Work was able to proceed per usual without any disturbance or human intervention.

About VISICS and the Access Technology Group

The Access Technology Group is an innovative Dutch company located in the centre of The Netherlands. We started in 2002 with solutions for wireless infrastructures, public safety and security (Access Innovations BV). In 2005 we added ICT services (internet and phone) to our range of solutions (Access Communications BV). As we sensed an increased demand in mobile solutions, especially in heavy industries with a need for increased safety levels at lower costs, we developed VISICS – the innovative and mobile solution for safe and efficient maintenance turnarounds and shutdowns. The first generation VISICS was launched in 2007. Since then, we focused more and more on this specific industrial application (Mobile Shutdown System BV), which resulted in a mobile high-tech solution providing on demand state-of-the-art observation, registration and communication techniques. And the innovation continues.

Nowadays, more than 60 people are working on the development, innovation, installation, logistics and support of VISICS. And even more customers all over the world use VISICS as their safety and efficiency solution during maintenance turnarounds and shutdowns.

For more information about the VISICS system and the Access Technology Group, please go to www.visics.eu and www.accesstechnology.nl

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