



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 rooms and 75 certified VISICS Operators were deployed.

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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.

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.

THE CASE

INDUSTRY

Refinery

COUNTRY

Wales

MAINTENANCE ACTIVITIES

Heavy maintenance work and replacement of parts

IMPLEMENTATION PARTNER

ESS

THIRD PARTY INTEGRATIONS

Dräger

VISICS CASE CONFIGURATION

183

Monitored manways

75

Certified VISICS operators

52

Duration in days

Over VISICS en Access Technology Group

The Dutch company Access Technology Group (ATG) started in 2002 with solutions for wireless infrastructures, public safety and security. In 2005 we added ICT services (internet and phone). From the growing demand for mobile solutions - particularly among industrial companies with a need for higher security, at lower costs - VISICS was developed.

This innovative and mobile solution for safe and efficient turnarounds, was introduced and further developed in 2007. To this day, more than 80 employees are engaged in the development, innovation, installation, logistics and support of VISICS worldwide.

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