

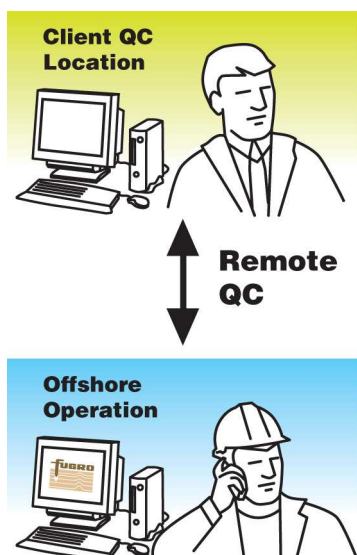
# FUGRO Remote QC

## Remote QC

Fugro Remote QC, based on FANS<sup>®</sup> technology, provides a tool to observe, supervise, and QC offshore operations in real time from a remote location.

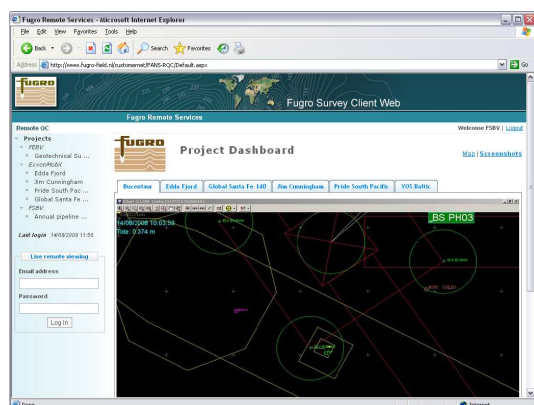
The current level of activity in the offshore industry, and the related pressure on personnel availability, increases the demand for improved operational efficiency and flexibility.

By reducing the need for client personnel to travel to and from offshore project sites, Remote QC contributes to the efficient utilisation of scarce expert resources and to a reduction in HSE exposure.



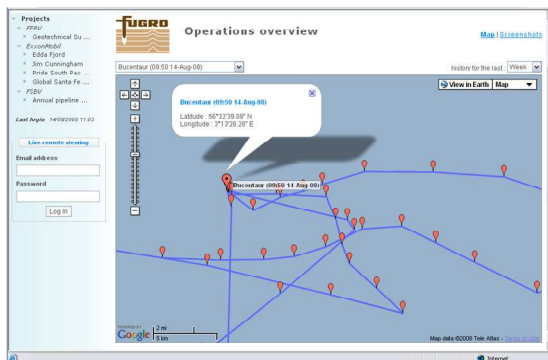
## Project Dashboard

Remote QC is carried out through a dedicated webpage portal that contains the latest project status information. This 'Project Dashboard' is available online.



The Project Dashboard

A snapshot of the offshore navigation display shows the status of offshore operations. The user can also log in for real time viewing. In addition, this module offers tracking and the possibility to publish project data, thus providing availability of data through the webpage.



The Tracking screen

Upon request, pages can be modified and information can be added, for example local weather conditions and forecast information can be linked and presented.

## Features

All in one web based Project Dashboard containing:

- Remote real time viewing of navigation displays during offshore operations
- Project reports
- Remote data
- Vessel tracking
- ROV video
- Fully secure system

## Benefits

- Improved efficiency
- Greater flexibility in personnel resource planning and allocation
- Potential offshore staff reduction
- Fewer transit and standby days
- Improved QC capabilities
- Reduced HSE exposure

## Cost efficient and secure

Remote QC is cost efficient and secure. Cost savings are achieved through a reduction in mobilizations and the number of in-field transits and standby days. Multiple QC projects can be assigned to client project staff in either the office or offshore environment, thereby creating additional cost efficiency gains.

# FUGRO Remote QC

## FANS<sup>®</sup> technology

FANS<sup>®</sup> (Fugro Advanced Navigation System) technology provides an infrastructure to remotely connect to offshore survey systems.

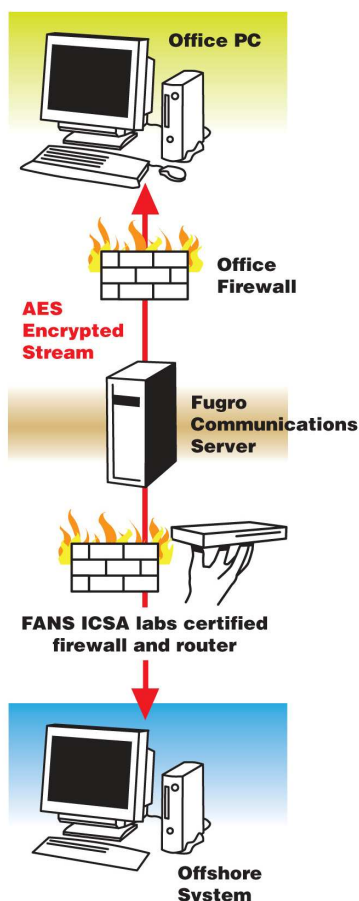
The connection is achieved via the internet and the FANS<sup>®</sup> hard- and software onboard the vessel or rig. The internet connection can be via VSAT or another communications link that supports internet IP-traffic.

Should suitable communications be unavailable onboard, Fugro can offer alternative communication solutions.



## Security features

Security is managed by the FANSv hard- and software. The FANS<sup>®</sup> firewall and router protects the survey network against interference from other computers onboard and on the internet. The software, with 128bit AES data encryption, enables a secure connection between the office and offshore operation.



## Bandwidth

In standby mode, only a few bits per minute are sent to monitor the connection and even in use, the system requires only 10-20 kbps of bandwidth. On average less than 10 kbps is needed - a bandwidth comparable to that required for a phone call.

## More Remote Services

Fugro offers a range of remote services based on FANS<sup>®</sup> technology. These services are based on the concept of remotely connecting to offshore systems from the office.

The range of Fugro Remote Services comprises:

- Remote Monitoring
- Stand Alone Navigation with Remote Support
- Remote QC



## Additional information

For additional technical details and / or pricing information, please contact your local Fugro office or email:

[Remote-services@fugro-survey.nl](mailto:Remote-services@fugro-survey.nl)