



# FUGRO

## REMOTE RIG POSITIONING

**Remote Rig Positioning is a scalable, cost-effective solution, utilising a patented and trusted positioning package, providing assurance that your expensive asset is on the right location and on time. It reduces risk, guaranteeing less operational exposure without compromising end to end quality control. Based on over 100,000 remote service project hours performed with all major operators, Remote Rig Positioning reduces costs, increases safety and provides assured positioning services.**

### CLIENT FOCUSED DELIVERY

To ensure the most effective solution for clients, Remote Rig Positioning has been designed as a scalable solution: an easy to install package enabling rig positioning operations to be carried out efficiently.

- StarBase/StarPod appliances, available worldwide, are permanently installed and remotely managed by Fugro experts
- Our scalable subscription-based solution allows for a pay-as-you-go approach to pricing, allowing clients to choose the options that meet their specific operational needs
- Remote Rig Positioning allows for end to end quality control and trusted positioning assurance processes and techniques, improving deliverables for our clients.

Our cost-effective service levels have been designed to ensure users can choose the best operating model for their circumstances at any given time with the ability to change service level as operations require it. Using this flexible “services on demand” approach delivers the most cost-effective model for all circumstances, meaning our clients only pay for the service they need.

All three service levels feature; Fugro’s StarBase integrated with a Fugro StarPod to provide independent DGNSS positioning and heading, remote management of all software updates by Fugro and provision of remote diagnostics for identifying and resolving any hardware, software, or network issues, enabling faster response time.

### BENEFITS

Fugro’s Remote Rig Positioning based on patented technology, increases operational flexibility while reducing cost and risk.

Key benefits include:

- Trusted positioning assurance based on decades of operational excellence
- Decreased risk exposure through reduced offshore staffing
- Reduced total spend through customised scalable services
- 24/7 onshore operational supervision by expert staff
- Operational flexibility through real-time remote services directly reduces cost and HSE exposure

## Level 1 - Excursion Monitoring Solution

At this level operational QA/QC falls under the full control of the client who owns the freedom and associated operational risks during excursion monitoring activities.

Fugro provides the operational software package on a dual redundant Fugro StarBase appliance and user interface onboard the client's rig. The functional application of the excursion monitoring system is operated by client-provided personnel. The client has full access to the remote QC capability during excursion monitoring operations utilising web access (i.e. via office and mobile devices) potentially negating a need to send a client QC representative offshore. Onshore clients get remote access to onboard excursion monitoring reporting and data.



## Level 2 - Remote Rig Positioning Solution

Scaling up from Level 1, operational interaction and project positioning supervision are provided by Fugro through its network of global Command Centres. This service level adds additional capability and support. Key enhancements over service Level 1 include:

- Fugro provides Rig Positioning services through the pre-installed StarBase appliance onboard the client's rig
- The functional application of the operational software is operated by Command Centres operated 24/7 by experienced surveyors, while still allowing operators to locally interact with the system onboard
- A final rig position report adhering to local regulatory requirements is provided with onshore client access via secure web portal.

## Level 3 - Manned Rig Positioning Solution

In this full-service offering, Fugro carries out survey positioning services with dedicated personnel onboard the client's rig.

Key enhancements over the service Level 2 include:

- Fugro uses the existing Remote Rig Positioning package to execute positioning operations with reduced mobilisation time.
- The experienced Fugro personnel onboard are supported by the 24/7 onshore Command Centres.
- As with services Levels 1 and 2 the client has full access to the remote QC and monitoring capability during the rig positioning operations utilising web access (i.e. via office and mobile devices).
- Final Rig Position report adhering to local regulatory with onshore client access via secure web portal.

addition, the StarBase/StarPod appliance is managed by Fugro experts with remote monitoring and management of hardware and software, ensuring always on availability.

## THE FUGRO DIFFERENCE

Fugro's world leading expertise gives us a full understanding of the range of challenges faced by oil companies, drilling companies and rig owners, allowing us to build a unique suite of fully complementary solutions.

Additional services available within Fugro for the Rig Market:

- Site Surveys
- Anchor Handling Vessel Positioning and ROV services
- ROV Drill Support
- Weather Forecasting
- Helideck Monitoring
- MetOcean Analysis

## INNOVATIVE TECHNOLOGY

The complete system comprises a StarPod with Starfix DGNSS and heading, integrated with a StarBase appliance utilising Fugro's patented remote survey services. As expected for mission critical systems such as these Fugro incorporates strict testing and releasing procedures to ensure the highest reliability. In

