

# Orca<sup>®</sup> | Towed Streamer Navigation, Command & Control

## COMMAND & CONTROL FOR TOWED STREAMER

### Orca

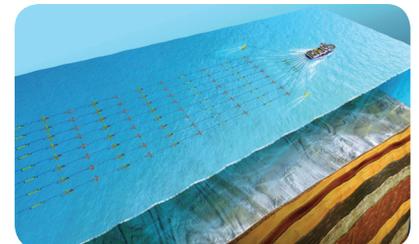
- Industry-leading systems integration, control and visualization
- Centralization and automation of data management, processing and reporting
- Optimization of surveys through scenario modelling
- Continually evolving technology with close client collaboration
- Experienced support team available 24/7
- World-wide track record with oil companies and seismic service providers
- Established as the industry standard for towed-streamer command and control

Drawing on over 30-years in-field experience and with over 50 installations on vessels worldwide, Orca is the industry leading system that centralizes and automates the Command & Control of all on-board and in-water systems. Orca delivers efficiency improvements in today's acquisition environment, from 2D and 3D to complex, multi-vessel programs including 4D and WATS.

### KEY BENEFITS

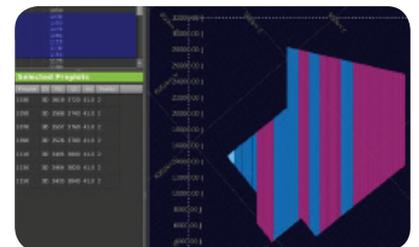
#### Improve efficiency

- Actively drives the vessel to achieve optimal spread parameters
- Automated near-real-time navigation processing
- Provides QC tools that help validate data quality
- Automatically provides final navigation data, seismic coverage and other reports in near real-time



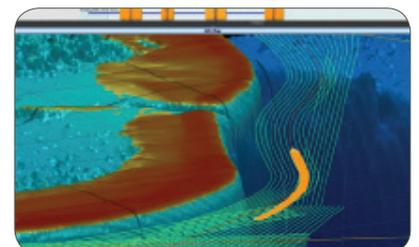
#### Minimize acquisition costs

- Estimates the time required to complete each line and turn to optimize the 24-hour plan
- Provides a visual analysis of coverage to minimize overlap
- Incorporates weather and tide/current information to help ensure repeatability



#### Reduce HSE, operation and equipment failure risks

- Minimize human intervention and interpretation
- Advanced automated alarm systems incorporate project risk factors



## KEY CAPABILITIES

### → Survey Planning

Orca planning functionality incorporates obstacles, ocean current models, coverage and repeatability into operational plans. It produces clear, concise work schedules for distribution to multiple vessels and third-parties within the survey area.

### → Command & Control, QC, and Analysis

Orca integrates devices and systems. It also provides control and synchronization for both single and multi-vessel operations. In addition, integrated vessel steering allows for real-time adjustments to improve streamer and gun positioning.

This automation allows the navigator to focus on survey optimization, QC and operational excellence. Orca diagnostics provide a summary of the overall acquisition status and system health. Comprehensive QC, analysis and reporting functions are available while the Orca web interface provides survey-wide and remote user monitoring and status.

### → Survey Optimization

The Orca Optimizer allows the user to model the effect of tides and ocean currents on feathering. It provides options for line selection and obstacle avoidance enabling the most effective operational decision making in near real-time situations.

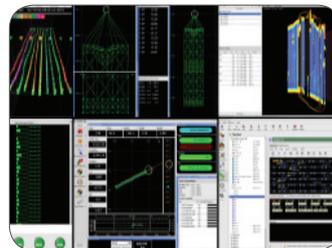
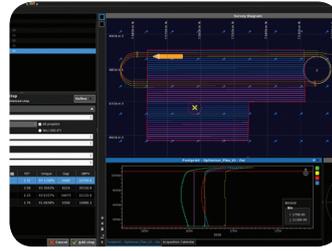
### → Navigation Processing and Coverage

The Near Real Time (NRT) engine automates navigation data processing, mitigating the need for manual intervention, potentially saving hours of time for each line. Orca Navigation Processing automatically resolves the majority of positioning issues with a manual data processing option also available if required.

Orca Coverage provides both real-time and post analysis of fold and associated attributes. In the case of 4D, a set of real-time repeatability attributes can be viewed.

### → Simultaneous Operations

Orca interfaces with Marlin™ for SimOPS and Seismic Interference planning and monitoring.



## KEY FEATURES

- Support of new OGP formats (P2/11, P1/11 and P6/11)
- Fully integrated or stand-alone navigation processing
- GIS map displays
- Consolidated configuration
- State of the art coverage models and displays
- Real-time repeatability displays (4D)
- Cross-department integrated line log
- Integration with Marlin

ION has been delivering field ready solutions to the oil and gas industry for over 40 years, and is the leading provider of real-time, multi-vessel positioning and control systems.

For further information contact [csl-sales@iongeo.com](mailto:csl-sales@iongeo.com).

### About ION

ION is a leading provider of technology-driven solutions to the global oil and gas industry. ION's offerings are designed to help companies reduce risk and optimize assets throughout the E&P lifecycle.