

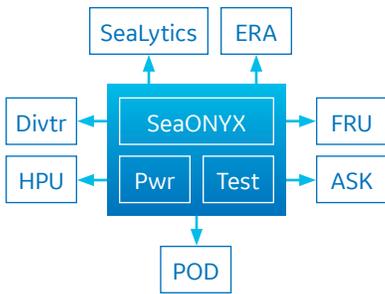


SeaONYX

BOP surface control system

SeaONYX® is BHGE's next-generation surface control system and operator interface, based on the industry-proven PLC platform. With its highly simplified architecture and compact design, SeaONYX is designed to deliver maximum performance at the lowest cost to own. It is reliable, configurable, and easy to maintain.

System overview



The system leverages commercial, off-the-shelf components with a hot swappable feature, that enables easy maintenance and maximizes availability. Standardized software functions reduce validation time and lower lifecycle costs.

Compatibility

Gen 2	A straightforward upgrade of the Gen 2 MUX control systems board will extend the lifecycle and make existing Gen 2 PODs compatible with SeaONYX
SeaPrime	SeaONYX platform is designed to operate seamlessly with the SeaPrime™ MUX BOP control system

Case study—serviceability

A software upgrade in a Gen 2 system during planned maintenance could take up to four days, including tasks prone to human error. With SeaONYX, the process can be done in as little as three hours.

Benefits

30%
Reduction in
TOTEX

\$3M

Savings¹

>99%
Availability

75%

Lower
maintenance
time²

UX
Simplified



Digital
enablement

¹ CAPEX + OPEX (est. annual spare parts usage and software requisition) over 10 years. Uptime savings based on \$150k day rate for semisubmersibles and drill ships. ² Based on rig-down reports from the past 4 years for surface control systems.

Features

Simplified modular design: redundancy and smart integrated feedback.

Improved user experience: higher-resolution displays and easier navigation.

Easier maintenance: system controllers and I/O modules can be individually replaced online without disturbing the rest of the system—avoiding costly downtime.

Enhanced troubleshooting: diagnostics with ability to detect wire breaks and isolate faults.

Improved diagnostics with SeaLytics™: cloud connectivity and remote monitoring; data-driven decision-making.

Single control platform: one place to manage all the BOP controls on the rig (surface and subsea).

Compliance: ABS, DNV, API 16D, BSEE, and NORSOK regulatory standards.

