SmartWell® Master Supervisory Application

OVERVIEW
The SmartWell® Master supervisory application provides a central point of control and monitoring for SmartWell and DataSphere™ permanent monitoring systems.

The SmartWell Master application is based on the ICONICS GENESIS32™ web-enabled human machine interface (HMI)/supervisory control and data acquisition (SCADA) software that runs on the Microsoft® Windows® operating system.

FEATURES
» Web-based HMI/SCADA visualization
» Modular tool suite for visualization, HMI, and SCADA
» GENESIS32 OPC-To-The-Core Technology™ system
» Visual OPC alarming and event notification
» OPC connectivity
» Extensive diagnostics and analysis capabilities
» Powerful data-mining technology
» Custom configuration utility
» International language switching and global aliasing
» Visual control replay traceability playback

BENEFITS
» Control SmartWell downhole equipment from a central location
» Interface with external systems, including third-party computers and distributed control systems (DCS)

EXTERNAL SYSTEM CONNECTIVITY
A custom external control module allows the SmartWell Master application to connect to an external system, such as a third-party computer or DCS for control and data handoff. Resource locking is utilized to help ensure control is available from either the SmartWell Master application or the external system. Both OPC and Modbus® versions are available.

DISPLAYS
The SmartWell Master application features standard displays specifically designed for:
» Hydraulic control modules (HCMs)
» Well control modules (WCMs)
» DataSphere permanent downhole monitoring
» Alarming
» Trending

A well configuration panel, which is a standard feature on the left-hand side of the screen, shows which wells are configured for the project. A standard alarm banner, located at the bottom of the screen, displays the most recent real-time alarms that have been raised.

Tabs at the top of the screen allow for easy switching between displays. Various hardware configurations are available, including standalone PC and rack-mount server with retractable VDU/keyboard/mouse unit.

Hydraulic Supply Module (HSM) Screen
MODULES
The SmartWell Master application features several modules that can be enabled according to the operator’s specific needs, including:

» Human machine interface (HMI)
» Historical data
» External OPC interface
» Remote client
» Alarms and events
» Microsoft .NET helper programs, such as calculation engines and external Modbus® data link modules

SMARTWELL SYSTEM CONFIGURATION
A custom configuration utility allows project-specific SmartWell systems to be built up in the SmartWell Master application by dragging and dropping standard functional modules.

TRENDING
Trending can be performed in real time or configured from historical data.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

H06985 11/17 © 2017 Halliburton. All Rights Reserved.