

Lift IQ

Production life cycle management service

APPLICATIONS

- Critical or high-value wells that require constant attention (e.g., high producers)
- Wells needing artificial lift surveillance, monitoring, diagnosis, and optimization:
 - Remote locations
 - Hazardous environments
 - Sites with little or no supervisory control
 - Sites with or without existing SCADA systems
- Wells that require constant monitoring, such as offshore wells, unconventional wells, high-gas wells, or high-viscosity oil wells

BENEFITS

- Increases well productivity
- Maximizes well uptime
- Reduces operating costs
- Minimizes wellsite risks
- Extends equipment run life
- Optimizes pump performance

FEATURES

- Dedicated, experienced team of surveillance engineers
- Up to 24/7/365 surveillance
- Satellite- or cellular-based, real-time communication
- Available for all lift types from any vendors

The Lift IQ* production life cycle management service increases well efficiency and productivity with remote monitoring, surveillance, and optimization of artificial lift systems — making your data work for you. Customers can tailor the service to suit their needs, from monitoring hardware in one well to proactively optimizing operations and equipment across an entire field. The Lift IQ service taps into the engineering, manufacturing, and surveillance expertise of Schlumberger with access to global service centers 24/7/365.

Sensors and motor controllers at wellsite transmit data to Artificial Lift Surveillance Centers (ALSCs) around the world. Dedicated surveillance engineers monitor alarms to prevent or mitigate adverse events, diagnose probable causes, and — within minutes — recommend remediation measures.

24/7 surveillance and support

Our experienced surveillance engineers monitor alarms and alerts 24/7/365 at ALSCs around the world. ALSC engineers review alarm events for all measurements at the wellsite, from motor temperature to continuous flow. Using Schlumberger best practices and systematic workflows, ALSC engineers identify probable causes and quickly report remediation options for rapid implementation. This helps operators maximize system run life and prevent or resolve downtime to optimize production while reducing total cost of ownership over the life of the well.



Experienced engineers monitor customers' artificial lift systems from surveillance centers around the world, ensuring rapid reporting and remediation efforts.

Optimize ESPs to improve well economics

Monitoring and surveillance minimizes downtime, maximizes production, and reduces total operating cost. Once considered only for high-value offshore wells, remote Lift IQ services are increasingly important for achieving economic targets in large brownfields, especially where wells are widely dispersed or where in-person troubleshooting expertise is limited.

Reduce wellsite visits and risk

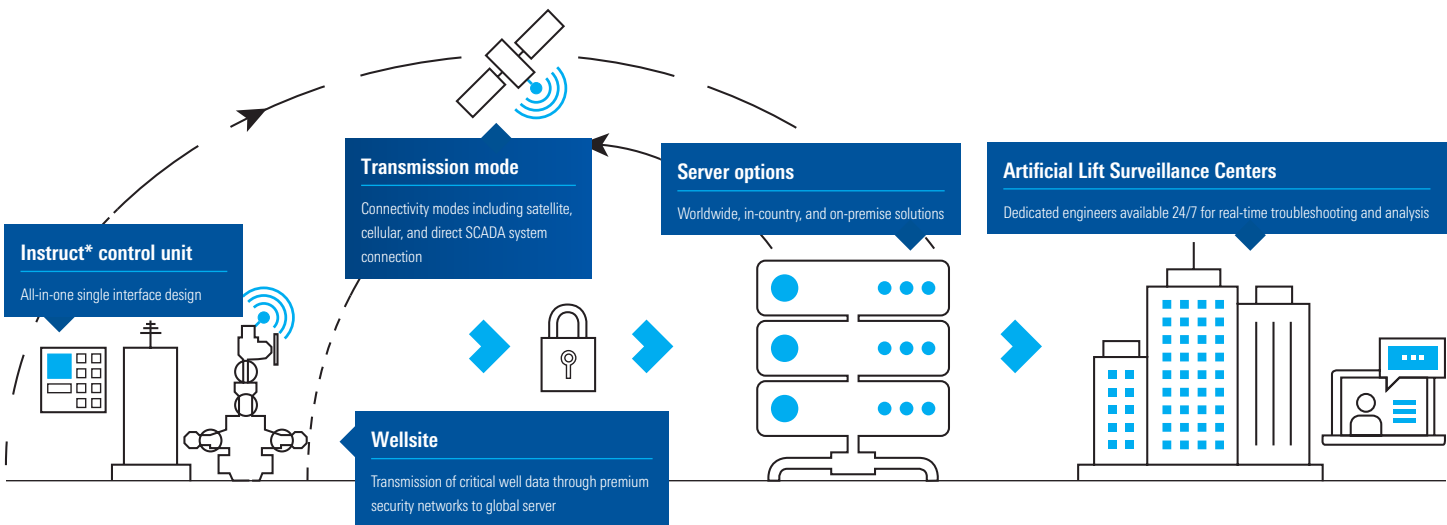
Data are transferred via satellite to and from remote locations, hostile environments, and sites with limited or no data acquisition capabilities. Where an existing SCADA system is in place, the Lift IQ service can extract the data and process it with the same top-quality results.

ALSC engineers can use the data to correct discrete problems, update pump regimes to match fluctuating conditions, or identify underperforming wells that could benefit from further pump optimization. Available as part of the real-time Lift IQ service or independently of it, this service analyzes flow rate and other parameters to determine overall pump efficiency and recommend changes, if needed, to optimize performance for current well conditions.

Four convenient levels of service

	Value	Advantages	Performance Indicators	Deliverables
Level 4 Field optimization	Identify untapped field reserves and increase recovery	<ul style="list-style-type: none"> ▪ Increase production ▪ Increase recovery factor 	<ul style="list-style-type: none"> ▪ Incremental production ▪ Production decline 	<ul style="list-style-type: none"> ▪ Network analysis ▪ Reservoir analysis
Level 3 Well optimization	Select wells for optimization based on production enhancement potential	<ul style="list-style-type: none"> ▪ Increase production ▪ Reduce cost per barrel produced 	<ul style="list-style-type: none"> ▪ Incremental production ▪ Well intervention candidate count 	<ul style="list-style-type: none"> ▪ Nodal analysis ▪ Pressure transient analysis
Level 2 Lift surveillance, analytics, and diagnostics	Proactively manage system performance and well production	<ul style="list-style-type: none"> ▪ Reduce opex and capex ▪ Reduce well interventions ▪ Minimize downtime and deferred production ▪ Extend asset run life ▪ Optimize lift system efficiency and workover planning ▪ Increase production ▪ Reduce HSE risk exposure and field trips 	<ul style="list-style-type: none"> ▪ Run life, survivability, and MTBF ▪ Deferred production ▪ Power consumption per barrel ▪ Field trips and miles driven ▪ ESP failure rate 	<ul style="list-style-type: none"> ▪ Surveillance ▪ Remote operation ▪ Event detection ▪ Diagnostics and optimization ▪ Production composite log ▪ Well and field KPI and reports ▪ Equipment tracking and planning
Level 1 Visualization	Use available data to make informed decisions and optimize operations	<ul style="list-style-type: none"> ▪ Assess lift status in real time ▪ Protect lift systems 	<ul style="list-style-type: none"> ▪ Uptime and downtime ▪ Shutdown count ▪ Tracking of well count 	<ul style="list-style-type: none"> ▪ Surveillance and monitoring screens ▪ Alarms management

The Lift IQ service improves well efficiency by monitoring and managing performance of ESP systems.



Data transmission, storage, and processing are securely managed through the Schlumberger network to deliver effective solutions quickly and using the right data, tools, and expertise.