CGI Exploration2Revenue™ Business Suite

OPTIMIZE YOUR UPSTREAM BACK OFFICE

Delivering a competitive edge

Today's oil and gas companies are challenged to lower the costs of running their businesses and reinvest savings into their digital transformation success. At the same time, it is estimated that as much as 80% of data currently available to oil and gas decision makers is underutilized. As a result, companies are looking to embrace cloud-based delivery models, increase use of existing data, exploit the power of mobility and analytics, integrate upstream IT systems and achieve digital transformation. CGI offers proven methods for reducing operating costs through software as a service (SaaS) and business process outsourcing, while helping clients deploy the modern technology needed to become more customer-centric, data-driven, digital organizations.

For more than 25 years, we have served leading oil and gas companies and trust management organizations worldwide. Our superior domain expertise is based on a deep concentration of technical and financial resources dedicated to designing petroleum management solutions based on industry best practices.

Through ongoing dialog with our clients, we keep abreast of their market trends and IT priorities. Fluctuating prices, geopolitical uncertainty and growing challenges in accessing reserves are driving their need to reduce costs, increase productivity of reserves, optimize assets and improve compliance—securely, safely and sustainably.

We focus on helping our clients address these trends and priorities with innovative solutions designed to deliver a competitive edge. We are dedicated to ensuring the success of their operations.

CGI supports the full spectrum of global oil and gas operations

Exploration2Revenue (X2R) Business Suite

In the upstream sector, remote resource plays, the rise of renewable energy and growing security concerns add operational complexity, cost pressures and compliance issues to an already challenging environment. Our enterprise software applications, information management consulting services and business process outsourcing services help you reduce costs, increase agility and improve functions vital to managing your information assets for land, production and financial accounting.

Reduce costs through better management of above-ground processes

CGI provides deep expertise to support the success of all of your upstream projects—from implementing software designed by our experts, to delivering solutions as a service, to performing non-core, back-office accounting functions.

CGI's X2R Business Suite is an integrated portfolio of solutions designed for managing the upstream back office with greater agility, insight and cost efficiency. It includes modules for land management, field data capture, hydrocarbon accounting and financial accounting that can be deployed rapidly and supported from anywhere in the world. This modern platform was built purposely for these functions by CGI's experienced oil and gas and IT professionals, informed by a broad client base.

X2R HCA
For hydrocarbon accounting

X2R LAND
For land and asset management

X2R MDC
For mobile data capture

X2R FAS
For financial accounting

Architected for improved data management

Solutions are integrated to our unique data hub called the Operational Data Store (ODS). The ODS is connected to the X2R modules out of the box and easily connects to other systems in your environment (e.g. SCADA, SAP, marketing, etc.) with pre-built adapters. The data management system provides the capability to manage interfaces with exception-based notifications and allows for the agile creation of business intelligent visualizations with your corporate reporting tool.

X2R Business Suite

BUSINESS BENEFIT	STRATEGIC BENEFIT	COST BENEFIT
• Streamlined information flow and delivery channel support	• More efficient access and reporting of asset performance	• Reduced cost and risk with a single reference architecture
• Global visibility into profitability on a well-by-well basis	• Ready platform for digital drivers, e.g., mobility and cloud	• Lower total cost of ownership through SaaS delivery and business process outsourcing
• Scalability to support rising data volumes and changing demand	• Increased focus on core operations	• Reduced costs by eliminating redundant processes
• Integration with existing enterprise security implementations	• Ability to rapidly introduce new features	
• Strategic Benefit	• Greater adaptability for different external environments and regional regulations	

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Hydrocarbon accounting (X2R HCA)

CGI's innovative X2R HCA application uses advanced technology to give operators the visibility they need for profitability, forecasting, simulation and production optimization. It integrates seamlessly with multiple applications, including enterprise resource planning, land and lease, reserves management, geographic information systems (GIS) and well management. X2R HCA includes modules for data management, reporting dashboards and integration:

HCA PRODUCTION MANAGEMENT

This web-based production management system provides powerful exception-based dashboards enabling data validation in real time for quick insight into developing trends affecting production uptime.

- Integrates with existing systems for visibility into asset profitability, alignment of production to plan, netback and expense/BOE.
- Capability to pinpoint areas of concern regarding systemic downtime issues contributing to lost production with the use of operations management dashboards.
- Embedded ETL tool with scheduling and exception emailing simplifies imports of production and operational data.
- Web based reports and dashboards utilizing the latest technology allow you to view critical information on laptops, tablets and phones.

- Comprehensive API allows the import/export of master files and transactions simplifying M&A processes and enabling modeling of facilities and networks.
- In a highly automated environment, HCA presents all data issues to users automatically with no data mining required increasing time available for value add activity.
- Includes a Run Ticket Utility to quickly reconcile tickets. Utility can be used for E&P and mid-stream terminals for real-time reconciliation of run tickets with the field and purchasers. Custom tolerances based on different operating arrangements are set up so you only manage exceptions due to automated validation capability.

Financial accounting (X2R FAS)

X2R FAS is an integrated suite of accounting modules that provide effective tools for accountants to administer oil and gas financial and operations data, as well as joint venture accounting of oil and gas and trust organizations. The solution streamlines the management and sharing of data between organizational departments (e.g., production, marketing, accounting and land). Key modules are designed to handle accounts payable, accounts receivable, joint interest billing (JIB) and revenue distribution, including the receipt and distribution of both external sources of revenue and calculated sales revenue. Immediate owner splits are determined when transactions are posted versus waiting for the JIB process.

X2R FAS supports the unique processing requirements of both Canada and the U. S., while providing a single platform for all North American entities, allowing for uniform reporting and simplifying the consolidation of information across entities.

Land and asset management (X2R LAND)

Our innovative, enterprise-wide X2R LAND application allows companies to manage and report on their lands in both the U.S. and Canada. It provides a rapid, comprehensive, accurate and non resource-intensive search capability for leases, wells, mineral assets and records. Results can be filtered quickly to create reports or export records. Operators get a complete view of records via a user-friendly, web-based interface for viewing, editing or updating. For trust clients, user work items can be displayed on a dashboard and work basket items can be created and managed, greatly reducing the effort to produce regular and annual review reports.

Data visualization is provided through customizable dashboards integrated with GIS. These dashboards can be based on individual needs or roles, and integrated with third-party data to display as layers on the map. Additionally, geofencing enables the application to generate alerts when changes are detected within defined areas.

The application includes modules for contracts, mineral leases, surface leases, access agreements, wells, fee titles and joint ventures. It provides anytime, anywhere access with single sign-on and includes comprehensive audit-trail and reporting capabilities. It also is designed to integrate with third-party applications like IHS and Drilling Info.

X2R Map

As a key module of X2R LAND, CGI Map brings geographic, land, well and other information to the user's desktop. It combines sophisticated mapping, retrieval, browse and spatial data analysis tools with the intuitiveness and user friendliness of a GIS. Via Esri's ArcGIS, CGI Map delivers the power to visualize, explore, query and analyze lease information currently held in lease records systems. The result is an effective graphics application leveraging data in X2R Land applications. It reduces the time and cost required to create lease plats and, overall, supports better land management and operational decisions.

Mobile data capture (X2R MDC)

Data quality is a constant concern in a business where stock prices are dictated by how closely production meets forecasts—and data analytics are dependent on high quality data. For precision projections and analysis, data coming out of the field has to be as accurate as possible. As production values often are needed as soon as possible, this means having to return to the location on the same day to determine reasons for production shortfalls, verify readings or arrange for maintenance services.

CGI's X2R MDC mobile production volume data capture and validation solution was developed with ease of use, integration and administration top of mind. The solution enables the remote capture of volumetric and operational data directly in the field. It offers bi-directional communication with any enterprise production volume reporting or HCA system. By storing up to 31 days of well and facility data in a connected or disconnected state, users can make amendments to historical data, monitor developing trends and validate data, all onsite.

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Cost-effective service delivery alternatives

CGI offers oil and gas companies several cost-effective alternatives to client-managed installations, reducing the demands on internal IT staff while improving business continuity. We provide the expertise, proven technology and cloud hosting that allow operators to focus on their core operations and reduce their total cost of ownership.

X2R SaaS

Ongoing staffing challenges, market pressures and regulatory changes have increased demand for cloud-based services for oil and gas finance and accounting functions. SaaS delivery enables more predictable G&A costs, as well as access to talent, next-generation capabilities and cost savings—without sacrificing reliability.

The SaaS model also reduces the upfront capital necessary to realize modern technology while consolidating operational, maintenance and upgrade costs into a single predictable cost. It also allows organizations that have deferred system updates to upgrade to a platform with a higher standard of service, better support, and an assured refresh schedule.

CGI delivers this value through our X2R SaaS delivery option which bundles skilled expertise, software and cloud hosting. One or more X2R modules can be deployed in this model from our integrated portfolio of land management, field data capture, hydrocarbon accounting and financial accounting solutions. CGI takes responsibility for updating the software based on regulatory changes.

Business process outsourcing

CGI provides a range of accounting and land management business process services including help desk services, applications support and applications management, that have been proven to reduce staffing costs by 15%. We can implement outsourcing solutions quickly and host all data in one integrated solution, providing a path to consolidate data sets from different operational areas. CGI professional staff have an average of 17 years of domain experience and support key business functions including:

- Production and revenue accounting, includes revenue bookings and distributions, revenue receivables, production taxes, state royalty, federal and state regulatory reporting and gas balancing
- Operations cost accounting, includes joint interest accounting, accounts payable and accounts receivable
- General accounting and general ledger processing
- Treasury, includes cash receipt application, cash disbursements and bank reconciliations
- Property administration, includes 1099 processing and division order administration
- Land management, includes lease records setup, proper interest determination, ownership changes, payment processing (minimum royalty, delay rentals, shut-ins, etc.) and escheat reports preparation
- Division order processing, including validation of decimals encoding of assets and research of revenue not received

Trust and royalty services

CGI provides high-quality revenue allocation and property management services to trust companies providing wealth management services to landowners. Our services are customized to meet the unique needs of our trust clients. We support aggressive operational service-level agreements (SLAs) with daily performance updates through a dashboard, to get your client deposits processed accurately and quickly. Our trust services encompass:

- Accounting and operations
- Property management
- Division Order processing
- Annual Reviews support
- Document management services

All of our processes and procedures are SSAE16 certified annually and have been through extensive risk, compliance and audit reviews with two of the largest banks in the U.S.

Additional capabilities

- Expert consulting services for well data cleanup, master data management, custom application development and support, and mobile workforce management
- Big data analytics methodology and services to help you manage information as a corporate asset across the entire oil and gas value chain and derive insights from geological, production, customer and purchasing data
- Security services for managing the deployment, run and maintenance for process control networks in both upstream and downstream operations

Why CGI

- Global delivery, local proximity. We offer global delivery and support capabilities where you need them, across North America, Europe, India and the Philippines. And, our local proximity business model enables CGI to take a client-centered approach to driving innovation and satisfaction while maintaining strong delivery excellence.
- Quality management. Our quality frameworks and processes outline a common set of operational principles and measures that guide our relationships with clients, and drive operational excellence in all that we do.
- Ownership culture. With more than 75% of CGI members owning shares in our company, we are more empowered to act and more accountable to you, our client, because we have a say in the business.
- Innovation. Innovation has been at the core of who we are and what we do for 40 years. Our clients choose CGI for the progressive and practical ideas, approaches and technologies we bring to achieve their business results.
- Client satisfaction. During 2015, we conducted 5,974 in-person client satisfaction assessments and received an average 8.75 out of 10 rating for being an "expert of choice" that measures the value of our support to clients based on our industry knowledge and technology expertise.

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About CGI

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world. Operating in hundreds of locations across the globe, CGI delivers an end-to-end portfolio of capabilities, from IT and business consulting to systems integration, outsourcing services and intellectual property solutions. CGI works with clients through a local relationship model complemented by a global delivery network to help clients achieve their goals, including becoming customer-centric digital enterprises.

Learn more at **www.cgi.com**.

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Experience the commitment®