



Hydrocarbon
Accounting as
a service



Improve hydrocarbon accounting and production reporting efficiency by up to 50% with minimal investment

The oil & gas industry is rapidly changing. Unprecedented price pressures, high volatility, high numbers of divestments and mergers are leading to a rapidly changing and more fragmented production and IT landscape. The need to lower costs makes agile adaptation to changing circumstances more important than ever before.

Current challenges from existing hydrocarbon accounting systems include:

High ownership cost: License, infrastructure, software, support and maintenance costs along with management cost functions

Involvement of multiple teams: Risk of service disruption due to involvement of multiple vendors managing and maintaining hydrocarbon accounting processes and systems

High resource cost: Non availability of specialists resulting in risks of system and process knowledge leading to erroneous reporting

Financial and reputational risk: Delay in correct and error free reports to stakeholders and regulatory bodies leading to financial and reputational loss

Security and regulatory compliance risk: Regulation norms, vulnerability of environment, application, data bases, infrastructure for safe and risk free operations

Run and upgrade challenges: Customization and non-standard deployment leading to increased risks for maintaining evergreen consistent deployment across assets

Interface management: Multiple interfaces for data exchange resulting in delay in timely execution of critical business process across business operations

Hydrocarbon Accounting as a Service - Overview

Through years of experience working with oil and gas operators across the globe, Wipro is geared up with HaaS (Hydrocarbon Accounting as a Service) along with our partner eDataViz and GSES. The integrated

end-to-end Cloud enabled HCA service delivers business critical production accounting and reporting requirements of upstream oil and gas operators.

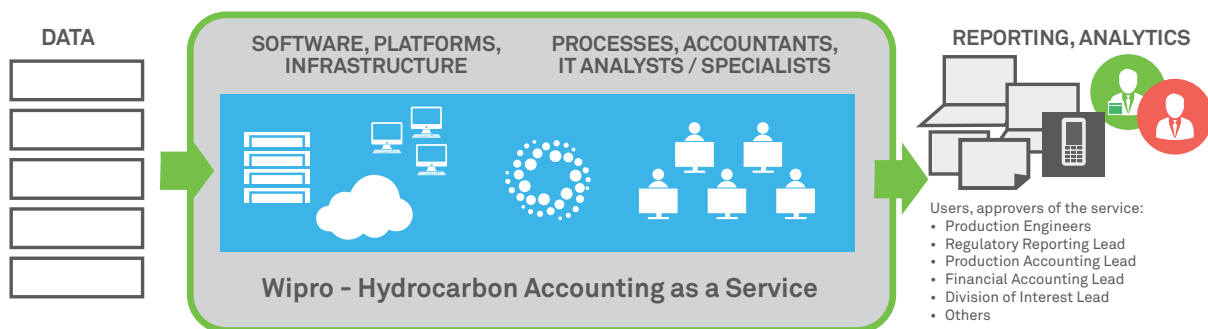


Figure 1: Solution overview

Hydrocarbon management business processes services

Business support services: Asset configuration, allocation modification/ update, network update, tag configuration and modification for change in asset operation structure, maintain and mail reports, train new user etc.

Allocation calculation and mass balance services

Hydrocarbon accounting services: Operations management, data acquisition, run scheduled allocation, report distribution, ad hoc data request fulfilment etc.

Integration services

Interface support services: Integration of applications (new and existing), interface upgradation, standardization of multiple interfaces etc.

Reporting factory

Reporting services: Creation, modification, updating of reports, etc.

Data management services

Data management services: Data migration for new asset, platform migration related data requirements etc.

Hyper automation and self service

Help desk services: Service request, change password, user access management etc.

Evergreen platform service

Infrastructure hardware and services: Server, network, DBMS, monitor server, traffic load, bandwidth, energy builder software & related, security etc.

Application Support Services: bug fixes, upgrade, enhancement, upgrade software, etc.

Real time process monitoring tools

End-to-end status reporting : User friendly end-to-end monitoring tool for analysing asset health status and service request fulfillment etc.

Key Benefits:

Seamless integration: Across the hydrocarbon accounting business value chain and ecosystem with pre-built adaptors providing plug and play capability and standard interfaces

High availability and flexible services: Scalable and flexible system to meet dynamic business requirements ensuring round the clock services across time zones

Factory model: To meet your ever changing reporting requirements of report types, distribution, frequency, etc.

Compliant secure and auditable environment: 360 degree secure and compliant environment providing seamless security and vulnerability prone application, database, infrastructure, with interface providing continuous compliancy to government and IT security regulations.

Lower cost of ownership: Eliminate multiple silos for managing and supporting application, infrastructure, interface, databases, business processes and management functions complemented by consumption based model from ownership based model through shared services

Services for critical and core hydrocarbon accounting: From configuring assets to configuring allocation calculations including assessment/audit of hydrocarbon accounting process

Zero disruption and evergreen environment: Standard and template based approach for ever changing business needs through M&A activities

24x7 service desk with self service capabilities and real time visualization for process status monitoring



Standardized onboarding process for HaaS around business process, data, solution architecture

Features:

- Cloud hosted secure and scalable environment for hydrocarbon management
- Seamless integration between application, processes and infrastructure
- Upgrade framework ensuring minimal downtime with no business impact for upgrades during various security, system and application patches or service release deployment
- Team of experts for all business needs throughout life cycle of service delivery
- Assessment of current HCA business process, data flows, solution architecture, etc.
- Configuration and integration of the HaaS platform
- Daily/monthly validation and reconciliation of production data
- Performs daily/monthly allocation runs
- Changes to allocation network, fields, facilities, well (test) data, etc.
- Reporting requirements





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