# Hydrocarbon accounting and production reporting solution

End-to-end automated real time monitoring of data flow.

wipro

Hydrocarbon Accounting and Production Reporting (HAPR) is a key business function and the foundation for the operator's daily production status reporting and planning for future production. Availability and accuracy of the production data in the HAPR system is mandatory for executing this process.

Production data generated from field instruments is associated with a tag. The data is processed and flows through the processing system before the Hydrocarbon Accounting System consumes it.

Manual monitoring is a tedious and error-prone process and requires more time to collect, analyze and debug the failures at each level.

The "End-to-End Automated Real-time Monitoring Dashboard & Alert Notification System" traces the data flow across varied system interfaces as well as monitors the underlying infrastructure covering the entire process chain while eliminating errors related to data availability in timely reporting of your production.

## Managing end-to-end data flow across a hydrocarbon accounting system

Disruption in data flow for Hydrocarbon Accounting business process can lead to delays in allocation and reporting and result in operational inefficiencies and reputational risk for the organization.

Successful execution of the allocation process and generation of production reports is dependent on availability of data from multiple data sources such as historians, engineering applications and workflow executions.

Unavailability of data can be due to various underlying parameters like:

- Well operation status information unavailability

- Field instrumentation

- IT infrastructure status

- Data base status

- Communication bottlenecks

- Delay in workflow execution

## Solution overview:

Wipro's process-driven solution to track and report data unavailability due to any underlying dependencies provides real time monitoring and surveillance capability to support and successfully execute Hydrocarbon Allocation and Production Reporting capability. The solution is further powered by a self-healing mechanism in real time to ensure data availability for successful execution of Allocation and Reporting of produced hydrocarbon by operators.

- **Data availability ensures seamless execution of Hydrocarbon Accounting and Production Reporting.**

- **Rapid problem resolution with reduced manual intervention.**

- **Analysis of recurring issues to take proactive measures.**

- **Enhanced user experience and improvised system reliability.**

# Key benefits:

Real time end-to-end monitoring of your Hydrocarbon Allocation and Production Reporting Process Workflow

Trending of your critical application, infrastructure, interface availability

Dashboard for centralized status monitoring of asset-wide HAPR instances

Significant reduction in time for making the data available for accounting and reporting

Timely resolution through notification and identification of root cause of your HAPR work flow bottlenecks

Improved planning and management of activities for current and future needs of any modification in infrastructure

Collaboration between disparate teams managing and supporting business-critical HAPR work flows

Health status monitoring and reporting of process and infrastructure for ensuring data availability and delivery to HAPR applications

Transparency and visibility of your process and infrastructure status across teams for better planning

# Key features:

End-to-end and process-driven data tracing mechanism

Real-time monitoring and identification of problem area along with root cause

Automated real-time monitoring on each node of data flow

Tracing of data from consumption tags to source tags

Product agnostic i.e. can be deployed for any historian (PI, PhD, Proficy etc.), HCA tool (EC, P2E, Avocet, Quorum etc.) and production engineering

Applicable where data is mapped to a specific tag and flows through a set of systems processing the tag and creating a network of tags

Alert and notification through mail to respective stakeholders

**Wipro Limited**
Doddakannelli, Sarjapur Road,
Bangalore-560 035, India

Tel: +91 (80) 2844 0011
Fax: +91 (80) 2844 0256
**wipro.com**

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