

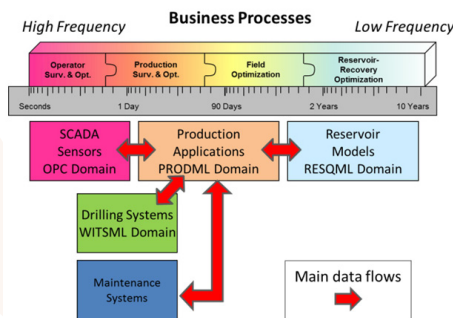
## What is PRODML?

PRODML (PRODUCTION-ML) is an industry standard which supports data exchange representing the flow of fluids from the point they enter the wellbore to the point of custody transfer, together with the results of the field services and engineering analyses required in production operation workflows, in a vendor-neutral, open format.

The standard is designed to transfer data using open Internet standards (e.g., XML and web services) within an organization as well as between national oil companies (NOCs), operators, regulators and service companies. Although still under active development, PRODML is a proven and effective standard for creating software interoperability.

## Use of PRODML

PRODML enables interoperability of software systems to streamline production workflows. The standard supports software interactions that are consistent with service-oriented architectures (SOA). PRODML may also serve as a standard for various reporting purposes among operators, NOCs, regulatory agencies, JV partners and service companies. Although less structured electronic documents (e.g. spreadsheets, PDFs, etc.) currently prevail in this space, PRODML may serve as a highly structured format to improve reporting processes and production data exchange between 3rd parties.



## Data Transferred by PRODML

- Product Volumes - Flow & facility dynamic data
- Production Flow Networks
- Well Test - Periodic production tests
- Time Series - Historian type data
- Shared Asset Model - Facility master data
- Wireline formation transient tests & sampling
- Production Operations
- Distributed temperature data and configuration
- Fluid Sample Lab Analysis
- Well completion snapshots and history

## PRODML Roadmap

The PRODML roadmap is a path to achieve the vision of a "Standards-Based Digital Oil Field" by 2017. When the vision is realized, use of industry standards in most new software will be the norm and major industry standards will be interoperable.

The 2014 milestone is for industry acceptance, with value recognized and multiple deployments across optimization and surveillance systems and reporting between operators and regulators, partners and service companies.

The roadmap is dependent on alignment of PRODML development with current industry needs as companies bring forward projects which require production data exchange. The results are extensions to PRODML and solution deployments.

## Benefits of PRODML

- Reduces complexity, implementation time, risk in application integration and costs
- Promotes efficiency, compliance, data quality and innovation

### The Energy Company Perspective

PRODML simplifies and enables the development of production data interchange between applications and data stores. It also supports sharing data with NOCs, regulatory agencies, JV partners and service companies. Architectural flexibility makes it easy to add new data types as business process and data sharing needs evolve.

### The Service Company Perspective

Use of PRODML supports the efficiency of service operations through use of common data interchange with customers and provides the opportunity to introduce service company applications into existing energy company workflows.

### The Regulator Perspective

Use of a global standard for production reporting simplifies data collection from operators, makes it easier to add new entrants and new regions of production, and helps lower costs.

### The Software Developer Perspective

PRODML is an XML-based set of standards for data transfer utilizing web services. It simplifies code development to package and transport production data between a diverse set of applications and organizations. The use of the standard facilitates reuse and thereby improves developer productivity and quality. The Energistics DevKit for .NET is available for software developers who prefer not to work with XML directly.

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