

## BENEFITS:

- Multiple stakeholders can manage and view all well production, analyses and forecasts in one environment
- Designed to be highly performant with up to 100,000 wells per project
- No engineering time spent loading data; seamless data connection to IHS Markit and company data sources
- Always view current data by scheduling recurring updates from company data sources
- Robust Decline analysis with Autoforecast
- Fully featured Typewell (Type Curve) tool
- Multi-well numerical model for conventional and unconventional reservoirs
- Re-fracture modelling capabilities
- Flowing Material Balance (FMB) and the Unconventional Reservoir Model (URM) account for both varying oil PVT properties and multiphase flow
- Complete multiple interpretations with varying inputs, using Scenarios

# Harmony Enterprise

## Reservoir management and production forecasting for today's environment

Harmony Enterprise removes duplication of effort, and drives value to all levels of the organization by assisting companies in establishing best practices, improved operational efficiencies, greater confidence in reporting, and profitability through proactive production and reservoir management.

**The oil and gas operational paradigm requires a new way of getting the job done, and a software tool that supports it.**

Engineers are faced with an ever-increasing number of wells to assess, and often need to collaborate with others so that a confident final interpretation of well performance can be delivered. Managers and other stakeholders need clear visibility into the analysis work that directly affects company reserves and asset performance.

By unifying the source data and analyses in one environment, Harmony Enterprise encourages collaboration, workflow consistency, efficiency, and improved auditability. Continuing a legacy of technical excellence, Harmony Enterprise introduces new multiphase production analysis and probabilistic forecasting for assessing production potential and risk.

### Depending on your needs, you choose which components you license

- **Forecast:** industry-leading reserves forecasting package including conventional and unconventional decline analysis methods, reserves classification, and more
- **Reservoir:** physics-based reservoir analysis package based on the latest technologies in Rate Transient Analysis (RTA) and numerical simulation

## Harmony Enterprise

If you already use Harmony for your oil and gas well performance analysis needs, use the comparison table below to determine if you should switch from Harmony to Harmony Enterprise.

Feature	Harmony	Harmony Enterprise
	DeclinePlus & RTA	Forecast & Reservoir
<b>General</b>		
Upper well limit per project	~2,000	100,000
Concurrently share one project with multiple engineers. Reduce costs by eliminating duplicate work (i.e., data import and sanitize, well analysis, etc.)		●
Restrict well access by AD group or user		●
In batch identify forecasts deviating from production		●
Continue working during long-running tasks (e.g., import and probabilistic simulation)		●
<b>Import Improvements</b>		
Establish a database connection with our setup wizard, and configure it, reducing the need for IT support		●
Schedule recurring database connection updates to keep data current		●
Import queries from Enerdeq® Browser with additional production and completion attributes		●
Connect directly to field production from FieldDIRECT®	●	
Consolidate single-user databases into a master project	●	●
<b>DeclinePlus/ Forecast</b>		
Project economics integrated with physics based reservoir analyses		●
Decline Autoforecast produces reliable forecasts without user intervention		●
Typewell analysis including individual well declines		●
BOE Typewell and decline analysis		●
Waterflood surveillance and VRR analysis	●	
<b>RTA/Reservoir</b>		
Conventional multi-well model with aquifer and injection support (vertical and horizontal completions)		●
Unconventional multi-well model (horizontal multi-frac completions)		●
Run probabilistics for hybrid forecasts		●
Refracture model, hybrid		●
Three-phase (gas / oil / water) in FMB and URM		●
VirtuWell analysis methods	●	
Analytical models included: water drive, multilayer	●	

For more information [www.ihsmarkit.com](http://www.ihsmarkit.com)

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#### NORTH AND SOUTH AMERICA

T +1 800 447 2273  
+1 303 858 6187 (Outside US/Canada)

#### EUROPE, MIDDLE EAST AND AFRICA

T +44 1344 328 300

#### ASIA PACIFIC

T +604 291 3600

E [CustomerCare@ihsmarkit.com](mailto:CustomerCare@ihsmarkit.com)

### About IHS Markit

IHS Markit (Nasdaq: INFO) is a world leader in critical information, analytics and solutions for the major industries and markets that drive economies worldwide. The company delivers next-generation information, analytics and solutions to customers in business, finance and government, improving their operational efficiency and providing deep insights that lead to well-informed, confident decisions. IHS Markit has more than 50,000 key business and government customers, including 85 percent of the Fortune Global 500 and the world's leading financial institutions. Headquartered in London, IHS Markit is committed to sustainable, profitable growth.