

## BENEFITS:

- Multiple stakeholders can manage and view all well production, analysis 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
- Robust analysis and forecasting using our Multiphase Hybrid and Probabilistics modules
- Re-fracture modelling capabilities
- FMB (Flowing Material Balance) and URM (Unconventional Reservoir Module) account for both varying oil PVT properties and multiphase flow

# Harmony Enterprise

## Reservoir Management and Production Forecasting for Today's Environment

IHS Harmony Enterprise™ removes duplication of effort, and drives value back 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 needs, you can 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

Already use IHS Harmony for your oil and gas well performance analysis needs? Use the comparison table below to help you decide if you should switch from Harmony (DeclinePlus & RTA) to Harmony Enterprise (Forecast & Reservoir).

	Feature	Harmony	Harmony Enterprise
Centralized SQL Database	Up to 100,000 wells in one project		●
	Multiple engineers sharing one common project concurrently. Import data once, reducing risk of duplicating wells and analyses, and ensuring no data loss when resources leave		●
	Aggregate a group of wells at least three times faster, with no limit on group size		●
Import Improvements	First time database connection made easy with setup wizard. Mapping done using wizard results in reduced need for IT support. Schedule recurring updates to keep data current.		●
	Direct connection to field production from IHS FieldDIRECT®	●	
	Import queries from IHS Enerdeq® Browser		●
	Work during long running tasks like import and probabilistic simulation		●
	Decline Autoforecast produces reliable forecasts without user intervention		●
DeclinePlus/Forecast	Oil static material balance	●	
	Waterflood surveillance and VRR analysis	●	
	BOE Typewell and decline analysis		●
	Typewell analysis including individual well declines		●
	Run probabilistics for Hybrid forecasts		●
RTA/Reservoir	Multi-well hybrid model (vertical)		●
	Refracture model, Hybrid		●
	Pressure and saturation maps, Hybrid		●
	Three-phase (Gas/Oil/Water) in FMB and URM		●
	Piper, VirtuWell, WellTest and CBM interoperability	●	
	Analytical models included: water drive, multilayer	●	
	Probabilistic and sensitivity with analytical models	●	

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

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## 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.