



IHS Markit™

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

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 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 to Harmony Enterprise.

Feature	Harmony	Harmony Enterprise
	DeclinePlus & RTA	Forecast & Reservoir
Centralized SQL Database	Upper well limit per project	~2,000
	Multiple engineers can concurrently share one project. Reduce costs by eliminating duplicate work (i.e., data import and sanitize, well analysis, etc.)	100,000
	Continue working during long-running tasks (e.g., import and probabilistic simulation)	•
Import Improvements	Easily establish a database connection with our setup wizard. Configuration using wizard reduces the need for IT support.	•
	Schedule recurring database connection updates to keep data current	•
	Migrate data and analyses from PowerTools®	•
	Import queries from Enerdeq® Browser	•
	Connect directly to field production from FieldDIRECT®	•
	Consolidate single-user databases into a master project	•
DeclinePlus/ Forecast	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	•
	Oil static material balance	•
	Waterflood surveillance and VRR analysis	•
RTA/Reservoir	Run probabilistics for hybrid forecasts	•
	Multi-well hybrid model with aquifer and injection support (vertical and horizontal completions)	•
	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	•

For more information 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.