



IHS ENERGY

# IHS Harmony Forecast™ 2016a

The evolution of the Harmony petroleum well analysis platform is multi-user capable for single users and teams

## BENEFITS:

- Harmony Forecast quickly performs well production decline forecasting and related analyses using multiple methods in one powerful tool that can be deployed for small, medium, or large companies.
- Multi-user concurrent access is ideal for teams.
- Work is now centralized for better access, consistency, and data backup/management.
- Simplified setup and sharing of connections to company data stores.
- Improved connection to IHS Enerdeq Browser, with ability to import/update using queries created in Enerdeq Browser itself.

IHS Harmony Forecast forges a new multi-user path for decline curve analysis. This separately licensed software expands on our existing petroleum well analysis technology by making it scalable, collaborative, and suitable for large or small IT environments. Harmony Forecast is ideal for asset teams, reserves groups, consultants and financial companies.

Engineers and other analysts are faced with an ever-increasing number of wells to analyze, and often need to collaborate with others so that a confident final interpretation of well performance can be delivered. Harmony Forecast takes the proven value of single-user Harmony DeclinePlus familiar to many, and extends it to work better than ever for teams of users.

Harmony Forecast's benefits are not just for teams; it is designed to work just as effectively for single users, and can be configured to run on a single desktop or laptop computer. Regardless of the number of users, Harmony Forecast can handle upward of 100,000 wells in a single database without compromising usability or performance.

It is now easier than ever to bring your data into Harmony and start analyzing it. Data mapping and importing from your company's own data stores has been greatly simplified, as has the connection interface to IHS Enerdeq® Browser and its U.S. Well and Production Data.

By unifying the source data and the saving of analyses in one database repository, Harmony Forecast encourages collaboration, consistency of analysis, and improved allocation of work within teams. This approach helps to eliminate islands of information, and avoid scenarios where users might be unaware of work already done, or unaware of precedents that they should be following.

Regardless of your organization's size, Harmony Forecast increases efficiency and effectiveness by providing a single database repository to import well data, analyze that data, and share the results.

## Frequently Asked Questions

### What is contained in Harmony Forecast?

Harmony Forecast is the long-term successor to Harmony DeclinePlus, containing typewell, decline curve analyses, worksheet workflow automation, and reserves classification capabilities but with concurrent multi-user access, greatly improved calculation speeds and ability to handle up to 100,000 wells in a project.

### Will Harmony Forecast work with existing Harmony files containing DeclinePlus work?

Harmony Forecast will be able to view DeclinePlus analyses brought over from single-user “.harmony” files saved in version 2016v1 or later.

### Will Harmony Forecast work with existing Harmony files containing RTA work?

IHS Harmony Reservoir is the successor module to IHS RTA that will live alongside the Forecast module in the Harmony multi-user platform. Anyone with a Harmony Reservoir license will be able to view RTA analyses brought over from single-user “.harmony” files saved in version 2016v1 or later.

### Do I need to install a Database for Harmony Forecast to work?

For single users or small teams, the free Microsoft SQL Server Express 2014 database software can be used. The versatility of SQL Express permits installation on a single desktop or laptop computer, and does not require specialized IT knowledge. For larger teams and/or corporate IT environments, it is recommended that the full version of Microsoft SQL Server be used, running on standard server hardware.

### Will I be able to go from Harmony Forecast back to DeclinePlus?

No, Harmony Forecast projects will not have a workflow path back to DeclinePlus. In the coming years, the IHS roadmap for Engineering solutions will focus on further developing the multi-user platform.

### Will IHS stop offering sale and support of DeclinePlus in favor of Harmony Forecast?

No, your current investment in DeclinePlus is safe and IHS will not force users to switch to Harmony Forecast. Future developments will focus on Harmony Forecast, while development in DeclinePlus will taper. IHS will communicate important development dates to customers as they come available.

### I am just a single user. Why should I switch to the multi-user capable Harmony Forecast?

Harmony Forecast is more robust and reliable, and performant than DeclinePlus, and offers a path for addition of extra users.

### Given that Harmony Forecast is a shared environment, will there be the ability to restrict access?

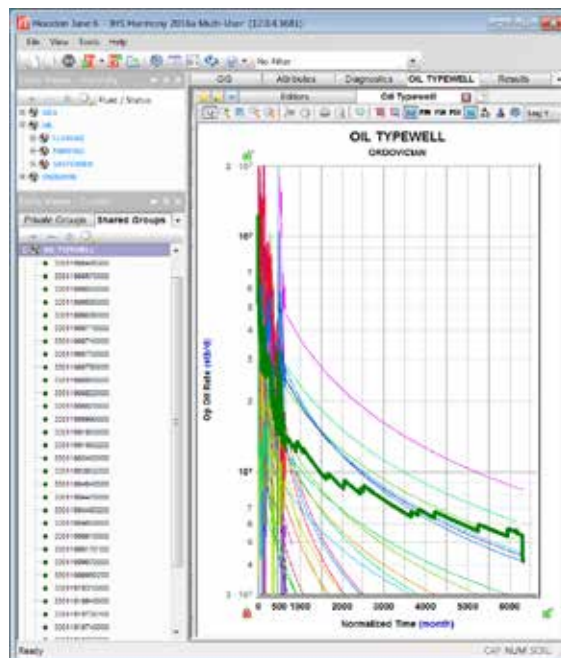
Access restrictions are available for certain areas and functionality of the software, for instance the import/update of data, and also the deletion of entities (wells/groups).

### Can I save my work to a file?

Work is constantly saved to the central database, so there is no saving action required by users anymore.

### How can I send my well to Harmony Support if there are no project files to send anymore?

Wells can be extracted to a file and sent to our support team, and then merged back.



## For more information

[EngineeringSoftwareSales@ihs.com](mailto:EngineeringSoftwareSales@ihs.com)

### AMERICAS

Tel: +1 303 858 6840

### EMEA

Tel: +44 1344 328300

### ASIA PACIFIC

Tel: +60 4291 3763