

## Solution Note

### Easy Migration from Aspen HYSYS to UniSim Design



Over 60% of current UniSim® Design Suite users were former Aspen HYSYS users – for all of them the migration was fast and smooth, and in some cases was performed overnight.

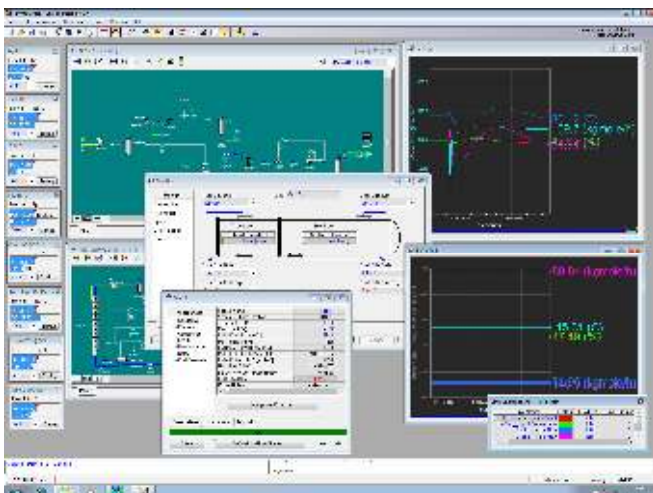
#### Background

In 2004, and following the guidelines of the Federal Trade Commission (FTC), Honeywell completed the acquisition of the intellectual property of Aspen HYSYS. As part of this transaction:

- Honeywell acquired intellectual property (source code) for all Hyprotech® products
- Aspentech signed a two-year support agreement to provide Honeywell with source code for any new developments to Hyprotech products, including Aspen HYSYS (ended in 2007)
- Honeywell hired a significant number of key Aspen HYSYS developers and technical support engineers.

This source code is the backbone of UniSim® Design. Since the acquisition Honeywell has actively pursued its simulation vision and addressed customer software requirements with regards to new developments, enhancements and resolution of defects.

Multiple open windows in the UniSim Design Suite software



These improvements to the software source code include: model libraries, physical properties, unit operations, parameters and the solver engine. Developments in these and many other areas are exclusive to UniSim Design users and not available from any other software provider on the market.

In order to facilitate migration from Aspen HYSYS, UniSim Design includes HYSYS binary case file (hsc) reading capability. Full version compatibility is outlined in Table 1.

#### Why Migrate from HYSYS to UniSim Design?

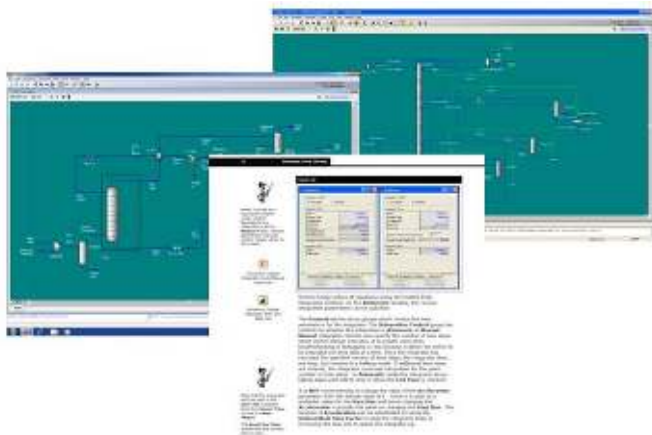
In addition to the proven advantages of selecting Honeywell's UniSim Design Suite as the simulation platform – and highlighted in the next section – customers with an Aspen HYSYS background will further benefit in the following areas:

- **Capitalize on previous investments** – users can smoothly migrate their Intellectual Property previously developed in the Aspen HYSYS environment (simulation files, templates, extensions, etc) to UniSim Design
- **Optimize simulation investments** – by comparing your options, customers can achieve better technical and commercial agreements.
- **No additional training required** – Engineers with Aspen HYSYS will be proficient with UniSim Design within seconds.
- **For EPC contractors addressing customer requests** – more and more operating companies are using and standardizing UniSim Design as their preferred simulation platform.

## Why UniSim Design?

Among the reasons highlighted by our current customers, some of the benefits of Honeywell's UniSim Design Suite are:

- **Best-in-class customer support** - our engineers have been supporting both Aspen HYSYS and UniSim Design for more than 8 years on average. They are reactive, knowledgeable, and possess a solid process engineering background.
- **Robust technology** - our customers have confirmed that UniSim Design is faster, more robust and with significantly fewer bugs than our competitors' process simulation software.
- **Exciting new features** - developed with user input, and by implementing best practices captured from end customers.
- **Joint Development** - ability to develop joint programs to address customer-specific needs and requirements.
- **Lifecycle vision** - our UniSim® suite of products consistently addresses all modelling needs across project lifecycle from Design to Operator Training Simulators to Online Optimization.
- **Flexible commercial approach** - Honeywell understands customer needs and proposes tailored and flexible approaches, aligned with customer expectations in terms of products, budget and contract length.
- **Rock-solid financial performance** - Honeywell financial performance and balance sheets are regularly published and audited following market shares standards.



Flow sheet and Online Help windows in UniSim Design Suite

## Compatibility between UniSim Design & HYSYS

Table 1 below lists the major versions of UniSim Design and Aspen HYSYS, and their corresponding compatibility.

UniSim Design		Reads Aspen HYSYS cases saved in ...		Saves as Aspen HYSYS...	
Version	Build Number	Version	Build Number	Version	Build Number
R350	11048	HYSYS 2004 and earlier	6150	HYSYS 2004	6150
R350.1.1	11051	HYSYS 2004 and earlier	6150	HYSYS 2004	6150
R350.5	11055	HYSYS 2004.1 and earlier	6510	HYSYS 2004.1	6510
R360	12071	HYSYS 2004.2 and earlier	6612	HYSYS 2004.2	6612
R360.1	12105	HYSYS 2004.2 and earlier	6612	HYSYS 2004.2	6612
R370	13058	HYSYS 2006 and earlier	6728	HYSYS 2006	6728
R370.1	13063	HYSYS 2006 and earlier	6728	HYSYS 2006	6728
R380	14027	HYSYS 2006 CP1 and earlier	6729	HYSYS 2006 CP1	6729
R380.1	14119	HYSYS 2006.5 and earlier*	6924	HYSYS 2006 CP1	6729
R390	15055	HYSYS 2006.5 and earlier*	6924	HYSYS 2006 CP1	6729
R390.1	15107	HYSYS v7.1 and earlier*	7119	HYSYS 2006 CP1	6729
R400	16067	HYSYS v7.2 and earlier*	7263	HYSYS 2006 CP1	6729
R410	17061	HYSYS v7.3.0.1 and earlier*	7337	HYSYS 2006 CP1	6729
R430	18059	HYSYS v8.2 and earlier*	8215	HYSYS 2006 CP1	6729
R440	19078	HYSYS v8.6 and earlier*	8628	HYSYS 2006 CP1	6729

Table 1: UniSim Design vs Aspen HYSYS compatibility matrix

## Frequent Asked Questions

### How does the migration work?

Following the compatibility matrix in Table 1, users simply load their existing Aspen HYSYS cases in UniSim Design. That's it!

### Do I miss something with the migration?

The compatibility between UniSim Design and HYSYS is maintained based on Honeywell's knowledge of the Aspen HYSYS binary case file structure and the common modules between them. If UniSim Design cannot match a given HYSYS module, this will need to be completed manually by the engineer.

### Do I require special training?

No. Engineers skilled with Aspen HYSYS will be proficient with UniSim Design immediately. However, if you want to get an overview of all the unique functionalities within UniSim Design, we propose customized training to focus on how these differences can help you to get more from your investment.

### If I migrate to UniSim Design, can I easily return to Aspen HYSYS if I am not satisfied?

UniSim Design provides the ability to save UniSim Design cases in Aspen HYSYS 2006.1 format. From this perspective, you can return to Aspen HYSYS as long as this version can be read in that software.

### Can I use both Aspen HYSYS and UniSim Design in the same project?

As an engineering best practice, the Honeywell guideline is that regardless of the software product used, all engineers working in a given project should use the same version of the same software tool. Keeping this in mind, compatibility between Aspen HYSYS and UniSim Design is intended to support a one-off migration effort between the technologies rather than serve as an interoperability approach.

### Besides loading Aspen HYSYS cases in UniSim Design, is there any other way of transferring files between these two products?

Both products maintain XML export/import compatibility. This is an alternative way to exchange files between UniSim Design and Aspen HYSYS using standard XML format.

### What happens if I have a problem when migrating from Aspen HYSYS to UniSim Design?

Contact our support helpdesk at [unisim.support@honeywell.com](mailto:unisim.support@honeywell.com).

Alternatively you can visit our Customer Support Centre at <http://unisim.supportportal.com>

Our UniSim Design support engineers and R&D teams have been helping customers with any migration issues they may encounter and other technical questions.

### For More Information

Learn more about how Honeywell's UniSim Design Suite can improve your process designs, visit our website [www.honeywellprocess.com](http://www.honeywellprocess.com) or contact your Honeywell account manager.

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