

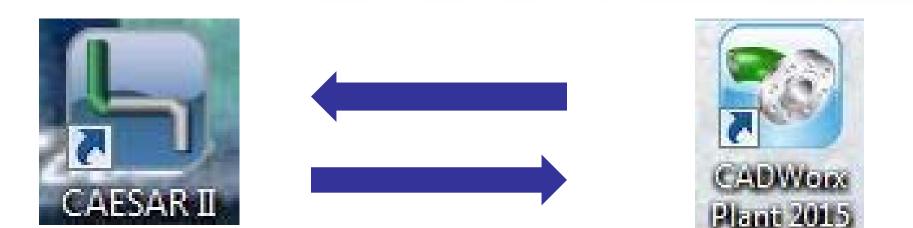
#### Interfacing with CADWorx

Michael Conaway Industry Solutions Manager Plant Design Solutions



#### **CADWorx to Caesar II and Back**





Unfortunately the barriers between design and analysis departments are both physical and mental. Consequently, information exchange between departments is prone to error or loss, and delays and expensive retrofits can be the result of relevant information not propagated to all stakeholders. We will reveal how the stress engineers can save on input time and concentrate on their primary task of solving stress problems by extracting the piping layout directly from the plant model, and do so with full confidence.

#### **CADWorx to Caesar II and Back**



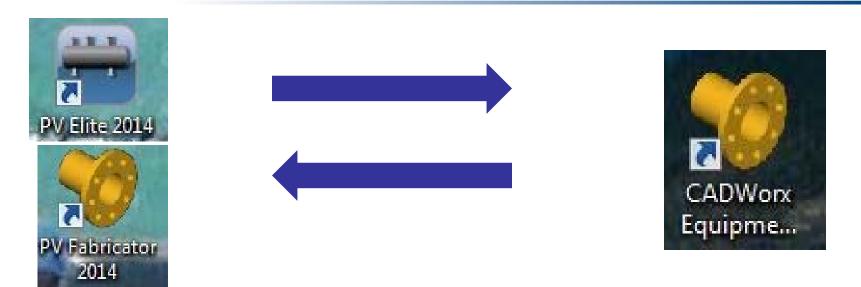
# **CADWorx Plant Pro &** CAESAR II **Bidirectional Workflow**



#### **PV Elite/PV Fabricator to/from Analysis and Design**



**NTERGRAPH** 



The intuitive bi-directional links between Intergraph CADWorx Equipment and PV Elite vessel analysis programs allow designers and engineers to seamlessly collaborate during the project design stage. Bring into the Engineering office the benefits of such integration and how to successfully complete fast-paced projects with minimal overhead.

#### **PV Elite/PV Fabricator to/from Analysis and Design**



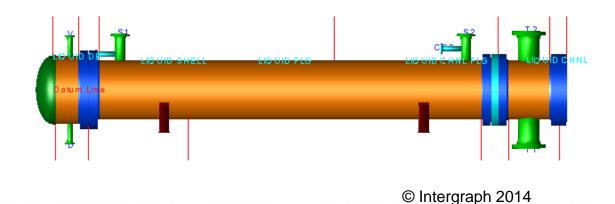
PV Elite is a program that performs mechanical design/analysis of pressure vessels and heat exchangers per a number of international pressure vessel codes including:

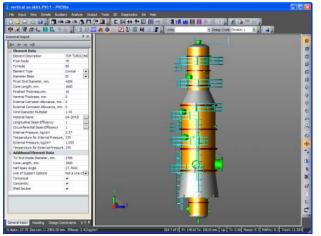
ASME

- American National Standard
- PD 5500
- EN-13445
- Europeen National Standard

- British National Standard

- European National Standard





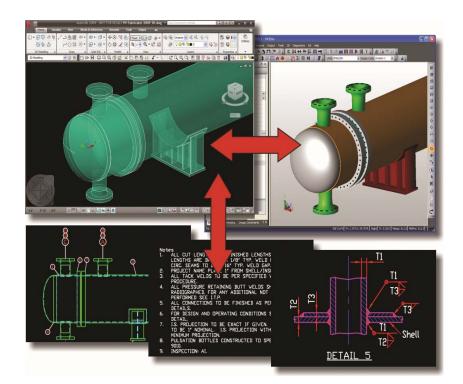


#### **PV Elite/PV Fabricator to/from Analysis and Design**



PV Fabricator has advanced tools for the accurate and speedy production of pressure vessel fabrication deliverables. When linked to PV Elite®, it greatly improves the workflow between engineer and designer to increase productivity and reduce the re-work and errors that cause costly overruns and penalties.

Powerful Modeling Capabilities Links to Intergraph PV Elite® Links to Intergraph CADWorx Fast and Accurate Fabrication Drawings Uses Existing Blocks and Details Block and Detail Updates from PV Elite® Ease of Customization Intelligent Bills of Material BOM Export

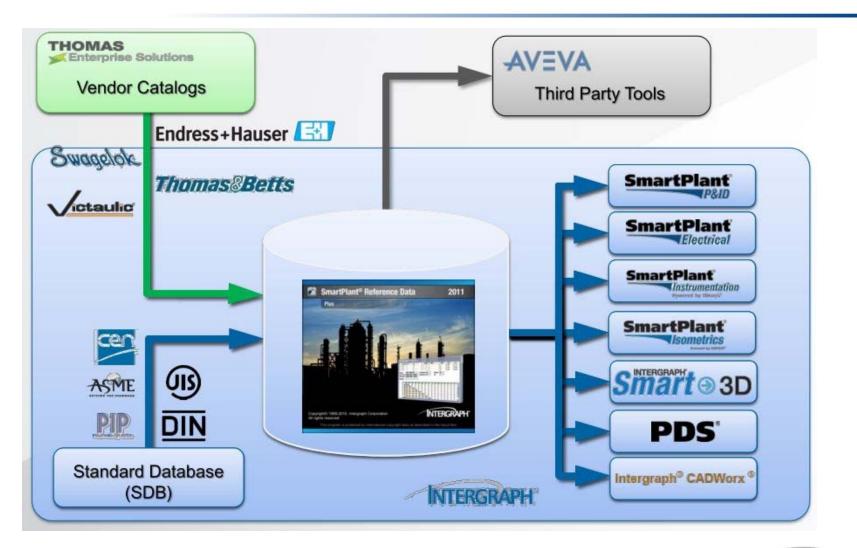




## **Smart Plant Reference Data to CADWorx**



**INTERGRAPH** 

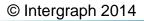


## **Smart Plant Reference Data to CADWorx**



**INTERGRAPH** 

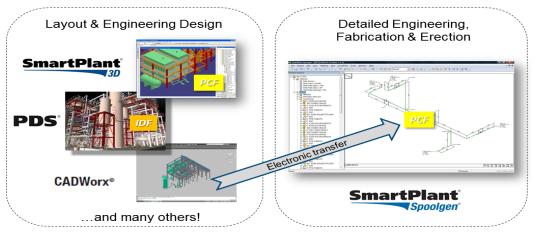
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#### **CADWorx and Spoolgen**



**INTERGRA** 



#### Benefits of electronic data transfer from CADWorx to SmartPlant Spoolgen being

No redrafting or re-entry of material data is necessary.

Design integrity and accuracy is maintained.

Work preparation lead-time for the workshop is reduced.

Accurate bulk BOM generation possible, leading to more accurate procurement and improved delivery schedules.

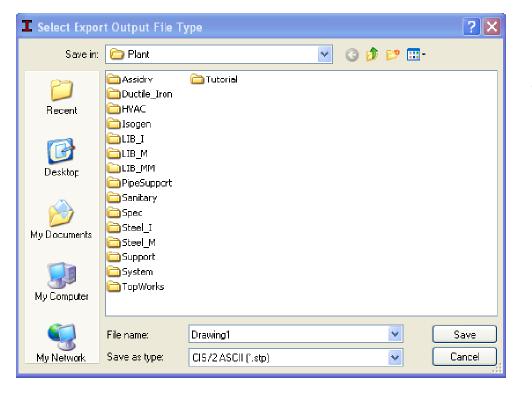
Reduced fabrication project costs due to elimination of costly re-drafting effort, with drawings produced in minutes rather than hours.

Shortened schedule due to elimination of drafting and reduced manual data entry. Increased quality due to reuse of the original CADWorx plant design model data.



#### Structural CIS/2ASCII Import Export





Exports selected CADWorx steel components to one of three data format: CIS/2, CAESAR II, or Robobat.



#### CADWorx E & I with CADWorx P&ID





## STARTING SMART BY CONSUMING DIGITAL DATA

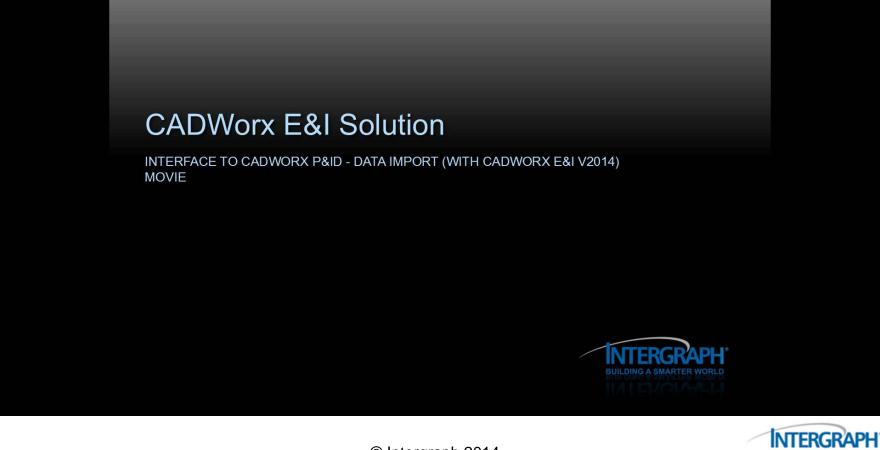
EXPERIENCE IMMEDIATE GAIN IN <u>EFFICIENCY</u> AND AVOID THE TIME CONSUMING TASK OF RE-ENTERING MASS DATA

INHERENT INCREASE IN ACCURACY BY IMPORTING DATA VS. THE ERROR PRONE TASK OF TRANSPOSING DATA THE FIRST STEP IN ESTABLISHING A <u>COLLABORATIVE</u> ENGINEERING PROCESS

INTERGRAPH"

#### **Import Demonstration**





#### Interfacing with CADWorx



### **Questions?**

