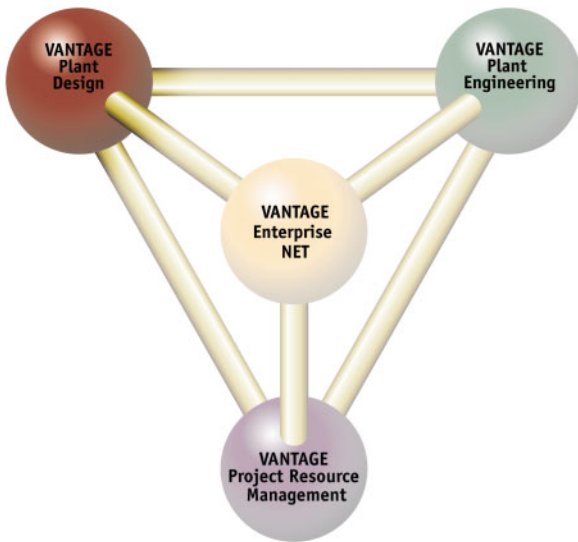




Plant Design

AB-ADP



AUTOMATIC PRODUCTION OF AREA-BASED DRAWINGS

The production of area-based plant drawings for construction, installation and maintenance activities is an essential phase for plant operation and documentation in any project. Whether using 2D or 3D CAD, project offices traditionally spend much time and energy in preparing standard drawings to satisfy the needs of the client. The quest to deliver drawings that are both consistent and repeatable can bring unnecessary administration and substantial cost to the project.

Area-Based Automatic Drawing Production (AB-ADP) is an application that saves man-hours and drawing production costs during the design project and beyond, in revamp projects.

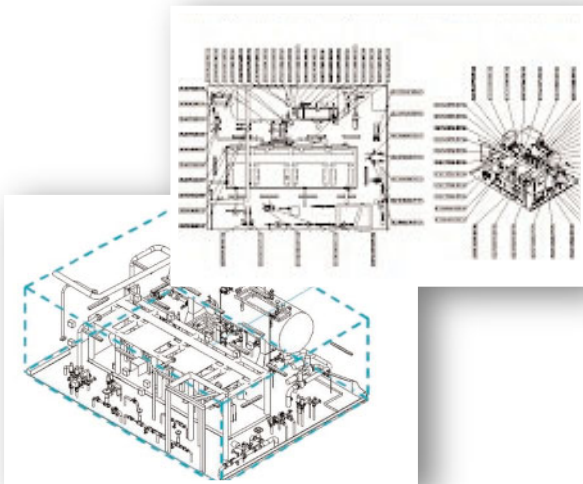
AB-ADP is member of the VANTAGE Plant Design (VPD) family and is fully integrated with the VANTAGE PDMS drafting capability. It provides users of PDMS with a highly productive tool for automatic, repeatable production of large numbers of standard drawings from a 3D volume.

In any office, an important aspect of drawing production is delivery in a style and format that meets the requirements of the client. The AB-ADP application gives a fast, powerful solution.

In addition to standard configuration tools, AB-ADP offers powerful, customisable tools that can be used to satisfy most project and company needs.

KEY FEATURES

- Minimal manual interaction
- Flexible and easy to set-up
- Produces large number of standard drawings automatically
- Repeatable drawing extraction
- Interactive or batch processing
- Rule-based drawlist
- Drawing browser
- Fully configurable



Template and Task-Based Drawing Production

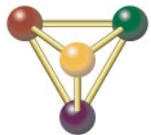
A drawing is created using the equation:

$$D = A + T$$

So, a **Drawing** is produced by the application of an **Area** limit-box to a drawing **Template**. Once the templates and a series of areas have been defined, drawings can be produced extremely rapidly.

All drawing elements are produced by the selecting and utilising 'tasks'. Users can create their own tasks or use delivered ones that include:

- Label arrangement
- Add North arrow symbol
- Add view measure marks
- Add gridline symbols
- Add gridline dimensions
- Add equipment dimensions
- Add a schedule or table
- Add a key-plan



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Productivity

The AB-ADP application is highly interactive and intuitive, enabling the user to produce multiple drawings quickly and with absolute minimum of effort. This saves considerable drawing production costs.

A complete set of tools is supplied, which enables all required elements such as templates, areas, tasks, drawlists and tagging rules to be created with minimum effort.

High efficiency is obtained through the use of special PDMS Draft elements and functions:

- Template element
- Task element
- Rule-based drawlist
- Quick search reference and purpose attributes

Automatic drawing numbering is completely configurable. The application also monitors the progress of drawing production and produces a log of all activity.

With a set of data files and rule-sets supplied, the application is production-ready within minutes. This also enables previous drawing production runs to be repeated instantly, regardless of size and number of sheets.

BUSINESS VALUE

AB-ADP provides an effective application for PDMS users to shorten both production time and quality of standard drawings through automation.

- One off set-up, enabling consistent and reliable drawings through plant life.
- Repeatable drawings direct from the 3D model.
- Operations and Maintenance drawings delivered in a configured style to match any need.
- Drawing updates on demand, reflecting changes in the 3D model and enabling easier loading of document management systems.
- Reduced time spent on manual drafting updates resulting from changes to the 3D model.
- Reduced time spent collating maintenance documents.

'After an initial investment in defining the drawing templates and setting up the areas, we are now able to update all our operations and maintenance drawings automatically, eliminating the manual activity previously needed each time a drawing was produced.'

Asbjørn Mangerud
Statoil

AVEVA would like to acknowledge the assistance of Statoil in the development of this application.



AVEVA