PlanTracer®

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www.csoft.com

PlanTracer for AutoCAD version 2

AutoCAD 2006 and AutoCAD LT 2006 compatible

Create floor plan models directly from 2D-CAD drawings or from raster images

Improved turnaround time for floor plan data extraction

Advanced drawing and editing tools

API for access to internal data structures of floor plan models

AutoCAD® 2006 Compatible Autodesk

CSoft Consistent Software

PlanTracer 2 for AutoCAD is an application for AutoCAD and AutoCAD LT designed to be a graphical front-end to Facilities Management solutions. PlanTracer represents floor plan as parametric model consisting of intelligent objects.

'Must have' for Facilities Management

The integration of existing drawing archives with computer-aided Facilities Management systems requires an efficient technology to convert and capture FM-related data from original building drawings. The need to keep FM data up-to-date through a simple process has motivated PlanTracer 2 development. PlanTracer 2 focuses on efficiency and usability. PlanTracer 2 delivers advanced tools for floor plan drawing and editing. Its unique tool set also includes automatic and semi-automatic conversion of inputs such as 2D or raster floor and building plan drawings into intelligent models. PlanTracer 2 will recognize a floor plan, extract FM data and create "Intelligent Objects" from vectors or from raster drawings. These objects will contain all the data necessary for your FM solution. PlanTracer 2 provides an open programming interface for easy integration with Facilities Management applications, databases and MS Office. A Facilities Management solution can access all objects on floor plan models in PlanTracer 2.

Floor plan creation

PlanTracer 2 provides tools for fast and easy floor plan drawing - automatic and semi-automatic room definition and dimensioning as well as automatic floor space calculation. PlanTracer 2 can accurately reproduce the traditional floor plans. It can take into account on-site measurements and use them in a parametric model to speed up floor plan drawing as well as its dimensioning and floor space calculation. Three modes of floor plan creation are available:

1. Automatic conversion of original floor plans made from room measuring to parametric model (parametric mode)
2. Traditional floor plan drawing using parametric library objects (library mode)
3. Floor plan creation from measured outer and inner contours of the building (contour mode).

All modes allow the use of precise drawing tools: object snapping, relative object insertion, dynamic dimensioning, and more.

Object (Templates) Library

All building elements of a parametric floor plan model are stored in the Object (Templates) Library of PlanTracer 2. Users can manage the Template Library contents. A library can be loaded/unloaded at will. Library objects can be created from AutoCAD blocks or sets of entities. Also it is possible to create a group from several library objects and to assemble floor plans from a set of groups. To simplify floor plan drawings the Template Library has an Objects Manager preview.

Rooms

The basic construction element in a parametric floor plan model is the Room object. PlanTracer 2 provides commands for semi-automatic room, apartment and floor plan creation. Once all rooms are defined - PlanTracer 2 can perform an automatic floor space calculation. To finalize a floor plan drawing it is necessary to add dimensions to it. PlanTracer 2 can do this in an automatic or semi-automatic mode. If there is any modification in room dimensions, PlanTracer 2 automatically recalculates floor space.

Floor plan recognition and conversion

To achieve maximum efficiency; PlanTracer 2 has automatic and semi-automatic conversion of floor and building plan drawings into intelligent models. PlanTracer 2 recognizes and converts these plans into parametric models from:

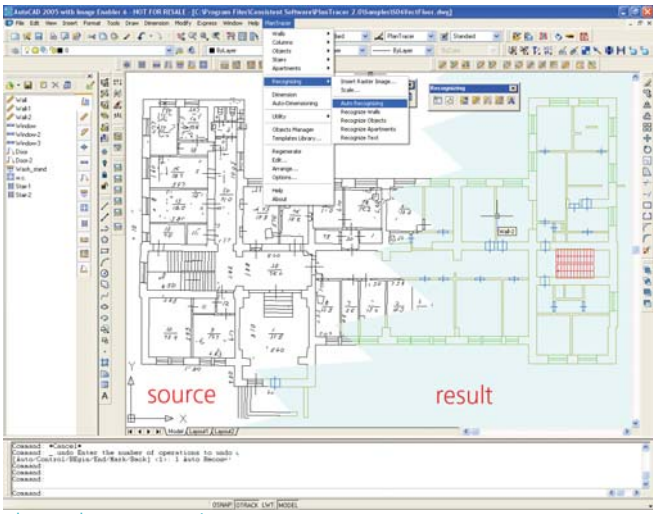
- Raster (bitonal) image (Raster editing and image enhancement tools are available) or from
- 2D non-parametric drawings (made in AutoCAD or in other CAD software, results of raster-to-vector conversion and other)

Floor plan correction and editing tools

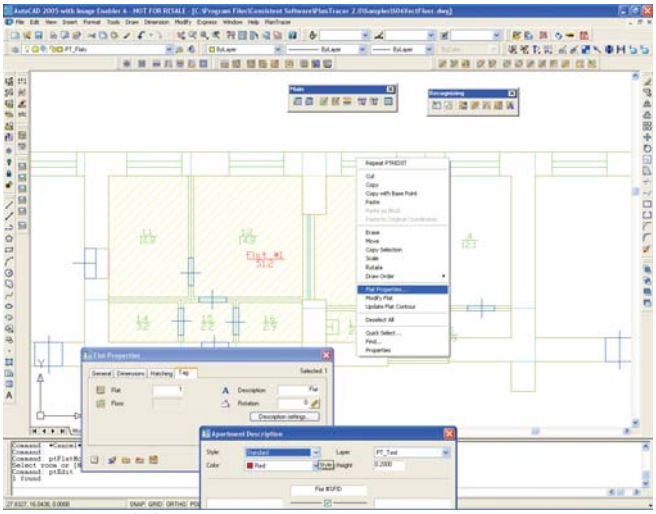
To create the floor plan model is part of the job. It is imperative to keep it up-to-date. That is why PlanTracer 2 has a large set of floor plan correction and editing tools. Rearranging floor space is a simple task in PlanTracer 2. The user is able to use dedicated Walls correction commands, such as adjoining, trimming, extending, line-to-curved wall conversion, etc. Also modifications can be done either in the parametric floor plan model – changing room dimensions, or in the source data – changing objects' properties.

Data exchange

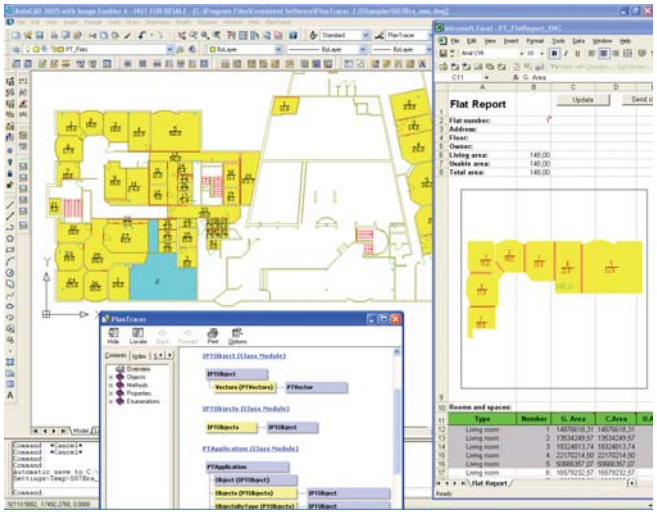
A Facilities Management solution can integrate PlanTracer 2 using the built in API to access the floor plan model. Floor plan data, such as floor space, dimensions, room and apartment attributes, are available to any external application which supports the COM technology. Also PlanTracer 2 can import data from an external database and use it to change the plan or model (e.g. the floor space). Thus bidirectional data links can be established. PlanTracer 2 can easily create graphics for reports by exchanging the requested data using WMF objects.



Floor plan conversion



Apartment definition



Link to an external application

Your local partner is:

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