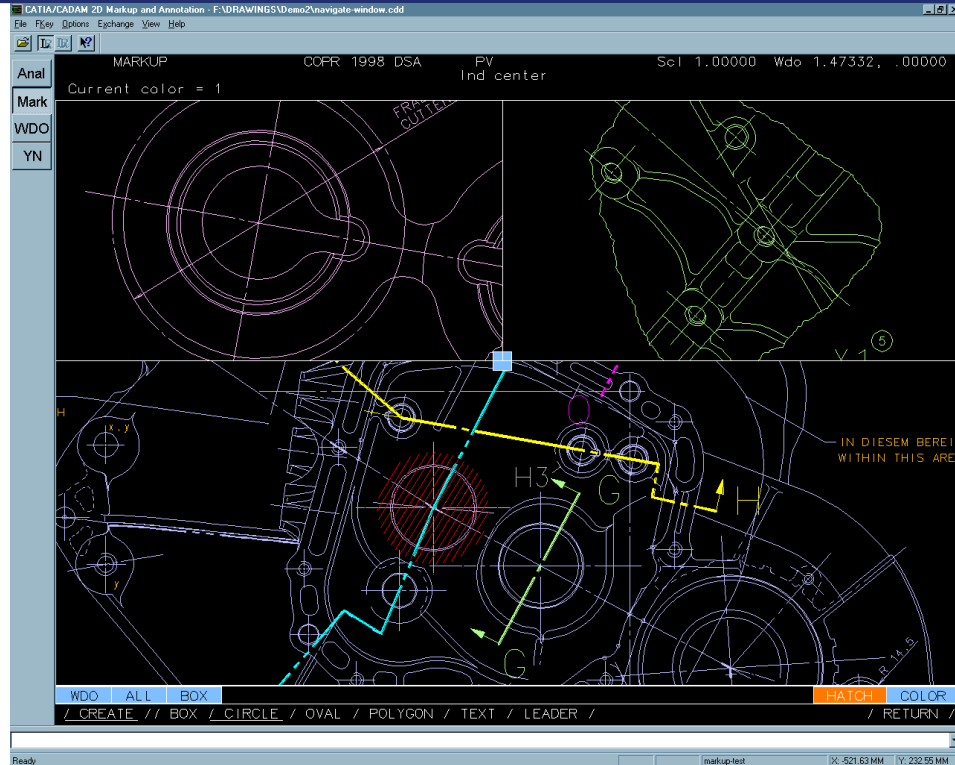


2D Markup and Annotation

2D Markup and Annotation is a cost-effective, stand-alone solution that provides viewing and “redlining” access to all CATIA-CADAM Drafting (CCD) drawings, without requiring a CCD license. It allows users to:

- View CAD drawings from workstations and/or PCs:
 - Mainframe CADAM, PROFESSIONAL CADAM, and CCD drawings
 - Drawings imported from other CAD systems (DXF/DWG)
 - Vector, raster, or hybrid raster and vector drawing formats
- Easily markup and “redline” drawings using simple and intuitive tools
- Instantly access all on-line Mainframe CADAM drawings through Interactive Call/File (ICF)
- Reduce costs by eliminating the need for hardcopy reproduction and distribution
- Increase enterprise-wide collaboration



A Complete Viewing Tool

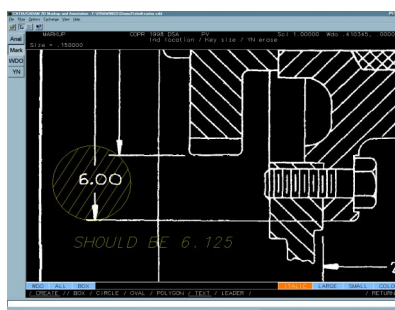
Everyone in an engineering environment needs access to drawings and designs. It's not merely an option—it's a necessity. But, what about people on the shop floor, design review groups, analysis departments, or managers that need to approve a design change? Anywhere instant and complete access is required is the right place for 2D Markup and Annotation.

Drawing distribution and control is simplified by having a single source: The actual CCD database. Anyone “checking out” (accessing) a CCD drawing can be assured of always receiving the appropriate release, whether it be the latest revision or the official released version.

Easy Markup

The markup and annotation functions give users exactly what they need to communicate design deficiencies, recommend changes, indicate problems, and “redline” areas of a drawing requiring additional work.

All the tools needed to create annotations, arrows, circles, polygons, and ovals are provided in simple, easy-to-use functions. All markup annotations are stored on a separate “layer” so that the underlying geometry is never disturbed. Authority to implement markups can be tightly controlled so that drawing integrity is not compromised, while still allowing the right people to view the information they require.



Cut Down on Wasted Time

If you currently use a more conventional viewing system, cost and time savings can be substantial. Even film viewing stations are far less efficient for viewing drawings, and they cannot match the speed, clarity, and pan and zoom features of 2D Markup and Annotation. In addition, precise hardcopy can easily be generated by users, thereby saving time and money involved with reproduction.

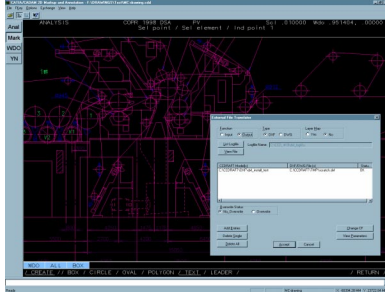
Since 2D Markup and Annotation has been designed as a tool to be used by people not normally accustomed to a CAD system, little or no time is normally required to train users. And, because the entire CCD database is fully accessible, users can follow links or references to other drawings, making multiple trips to the drawing vault a thing of the past!

MultiCADlingual™

2D Markup and Annotation can view Mainframe CADAM, PROFESSIONAL CADAM, and CCD drawings. It can import NURESTOR files from Mainframe CADAM and CATIA, and can also translate and view DXF or DWG files from other CAD systems. If you have an active Mainframe CADAM installation with TCP/IP, it can dynamically, and instantaneously, access Mainframe data. 2D Markup and Annotation's openness and versatility make it the ideal viewing and redlining tool for all your precious CAD data.

Hardware Savings

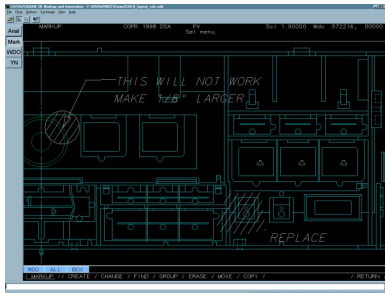
CCD's 2D Markup and Annotation will run on all hardware platforms supported by CCD. Because processing requirements are modest, options such as low-cost X-Stations running X-Windows on UNIX are viable as well. Slower NT PC workstations



such as 486DX2 machines are also very usable, and more appropriate for environmentally harsh areas such as shop floors. That may mean that PCs you were about to discard in favor of faster ones may now be utilized for viewing purposes.

Software Savings

Since 2D Markup and Annotation is significantly less expensive than a full seat of CCD, it can help you cut down on software costs. As with all CATIA products, licenses can "float" over a network, thereby reducing the overall number of required licenses. Only the products actively being used require a license.

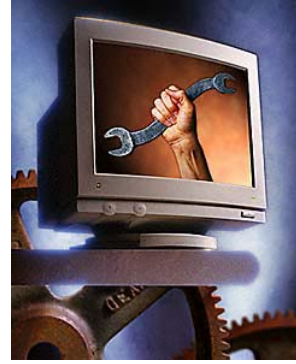


Since 2D Markup and Annotation's licensing system supports industry standards such as TCP/IP, it is possible to serve licenses to remote stations, such as laptop computers being used by engineers out in the field. By dialing into a network using

SLIP (Serial Line Internet Protocol), users can quickly access CCD drawings without requiring a permanent individual license for the product.

Technical Requirements

- AIX 4.1.5 or higher for IBM UNIX workstations
- HP-UX 10.20 or higher for Hewlett Packard UNIX workstations
- Windows NT 4.0 for Intel PCs (minimum 66 MHz 486DX2, 90 MHz Pentium recommended)
- 32 MB of RAM
- 75 MB of hard disk space, not including the storage space necessary for drawings



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For more information about CATIA-CADAM Solutions, contact your IBM marketing representative or business partner. In the U.S., call toll-free at (800) 395-3339. You can also access a wealth of information about CATIA-CADAM Solutions on the Web:

www.catia.ibm.com

www.dsweb.com

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