

- Reduce Scrap
- Reduce Downtime
- Reduce Production Costs
- Increase the Focus on Quality

**CAPTURE**



**BIG MONEY**

Invest in the  
**PRINT ROOM AUDIT™**  
**SOLUTION!**

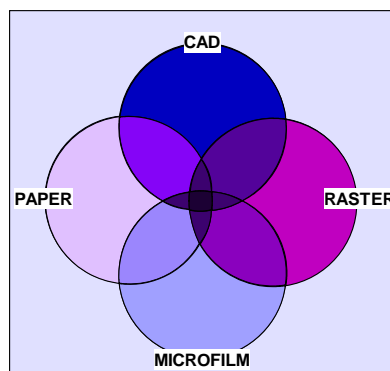
# Does your plant management realize that there are compelling, potentially large cost avoidances tied to your Drawing / Print Room?

While competitiveness in the manufacturing industry increases cost reduction programs, customer's still demand higher product quality, sophistication and performance! Yet, too often manufacturing initiatives still rely on inaccurate and out-of-date basic engineering information! Pitney Bowes Management Services (PBMS) in partnership with VersaIMAGE Software Corporation offers the Engineering Documentation Print Room Audit Solution that delivers a proven process which assures and maintains 100% quality control of plant engineering documentation initiatives.

Multiple information media formats, such as CAD, raster, paper and microfilm often impede the timely exchange of engineering data information. This creates the opportunity for out-dated information to be used accidentally and causes delays in manufacturing processes. Lack of reliable "version control" during this process not only frequently leads to untimely delays and but often causes scrapped production runs!

## *Answer these five Questions:*

- 1. Do you still actively use drawings on Paper?*
- 2. Do you still actively use drawings on Microfilm?*
- 3. Do you have multiple indexing systems for each drawing format shown below?*
- 4. Is it possible that your plant drawing revision system is not 100% current?*
- 5. Are there a significant number of scrapped parts created from incorrect drawing information?*



If you answered **“YES”** to any of these questions you need ...

# THE PBMS / VersaIMAGE PRINT ROOM AUDIT SOLUTION

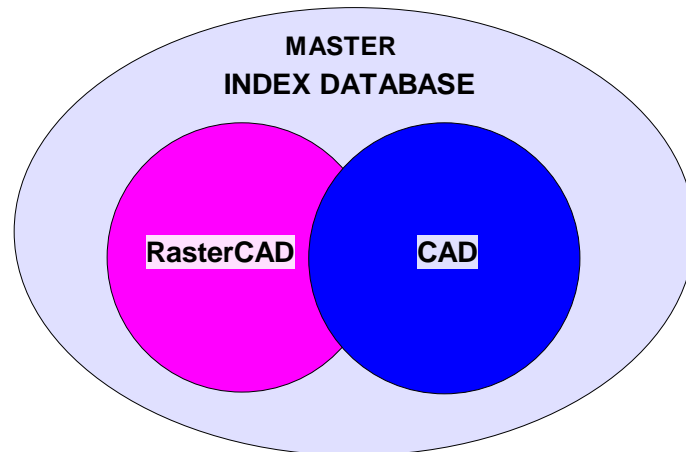
The print Room Audit System combines your engineering data and drawing images located in your print room to become a totally 100% verified engineering information database. The Audit process locates, combines, double checks and image verifies your paper and microfilm files while editing your CAD and available master index files!

The **PBMS / VersaIMAGE PRINT ROOM AUDIT™** Solution consists of three separate modules that may be implemented in phases depending on the audit results. This process converts your Drawing / Print Room to a modern, “State of the Art” information facility:

**Phase 1:** *Data survey and compilation of all available index data into a Master Drawing Locator (KIOSK) Index Database.*

**Phase 2:** *Scanning of all aperture cards and conversion of images to industry standard TIFF raster image files with their addition to the Master Drawing Locator KIOSK.*

**Phase 3:** *Selective scanning of paper drawings with 100% revision verification and image addition to the Master Drawing Locator KIOSK.*



## Options:

- Addition of wide format **KIP scanner/plotter** to Kiosk.
- Database & network consulting services to integrate Kiosk with your existing IT structure.
- CAD designers familiar with Raster CAD Editor software that allows redline mark-up and revisions to raster images without converting scanned images to full CAD.
- Raster to vector conversion software with CAD overlay feature allows transformation of digital scanned images to full CAD (AutoCAD) format.
- **Innovative movable ScanCART™** services for “on-location” image scanning and PDF conversion of engineering and plant documents (8 1/2x11in. to 11x17in. size).
- **PBMS information Kiosk / VersaIMAGE™ hybrid document & image management software.**

## Historical Review of the Drawing / Print Room:

Over the last 40 years US manufacturing operations went through major changes both in manufacturing and design processes. Designs drawn on linen and tracing paper moved to erasable mylar and then to electronic format using Computer Aided Design or CAD. During the last 20 years the drafting table became a computer terminal and draftsmen became CAD designers. Also, during that time microfilming of engineering drawings became a standard practice both for archival drawing storage and active use in microfilm aperture cards. Because conversion of paper and microfilm drawings to electronic or CAD format was largely cost prohibitive, CAD was used on a “go forward” basis.

As the design media shifted to new electronic CAD format many companies felt that drawing / print rooms would require less staffing to retrieve, store and update “older” paper and microfilm drawings. Significant personnel cost savings could be achieved by reducing Print Room staffing in the 90’s. Unfortunately in many cases the cost cutting became too severe, resulting in poorly managed or unmanaged “self-service” drawing / print rooms. Because of the physical hardship of re-filing paper or mylar drawings into the correct drawers many drawings were either not re-filed or re-filed incorrectly. Also microfilm aperture cards would be misfiled quite often or not re-filed at all. Over the years drawing / print room integrity and drawing revision management became a serious problem in many plants throughout North America causing millions of dollars of scrap parts and wasted productive time. Some of the typical hidden costs attributable to poor print room management are:

- *erroneous parts manufacturing (parts must be scrapped),*
- *production stoppage due to out of date or unavailable production or tool drawings*
- *exorbitant often “rush” re-engineering costs caused by missing drawings or incorrect revision information*
- *Wasted time to visit print room, search for misfiled drawings or aperture cards and revision information.*
- *Reliance on often outdated vendor drawings if in-house drawings could not be located.*

## Pitney Bowes Management Services & VersaIMAGE:

*Pitney Bowes Management Services (PBMS) is a recognized global leader in the corporate world of information and document management services. Pitney Bowes provides office technologies and services that help companies gain efficiencies and capitalize on opportunities. The PBMS motto is: “Our entire organization is focused on the application of practical, innovative business solutions. We engineer the flow of your business-critical communication so that you can concentrate on what you do best.”*

*PBMS’s partner, VersaIMAGE Software Corporation is well known internationally as a highly innovative organization. Michigan based, Mr. Alex Brunner, Chairman and CEO of the company, received the prestigious Industry Pioneer Award from the Association for Image and Information Management AIIM. This coveted award is only given to individuals that have produced innovations furthering the Image and Information Industry as a whole over the last 25 years. VersaIMAGE is an innovator in imaging software design, development, integration, worldwide distribution and conversion services specifically focused towards the automotive industry.*



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