

VueLink for SAP cFolders

***An Integration between AutoVue
Client-Server Edition and
SAP Collaboration Folders (cFolders)***

User Manual

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Introduction

Vuelink for SAP cFolders provides an interface between the SAP Collaboration Folders (cFolders) System and the AutoVue Client-Server family of products.

This interface enables you to add powerful viewing and Markup capabilities to your SAP cFolders System via a Web browser in an intranet or the Internet.



Vuelink and AutoVue will provide you with the following functionality:

- Document viewing of native formats.
- Graphically marking up documents using a rich set of graphical and textual tools.
- Reviewing your Markups and those of your co-workers.
- Full security linking to the SAP cFolders System.

This manual is intended for the users of Vuelink and the System Administrator or other individual who performs the Vuelink setup.

Note

- Throughout this manual the family of AutoVue Products is referred to as AutoVue. The AutoVue family of products includes AutoVue, AutoVue Professional, AutoVue SolidModel, AutoVue SolidModel Professional and Office. These products are available in Windows, UNIX or Java.
- AutoVue Professional, AutoVue SolidModel Professional and Office provide Markup features. Refer to the User's manual for further information about the specific features and file formats supported by each AutoVue product.

Functional Overview

Vuelink for SAP cFolders adds document viewing and Markup capabilities to the SAP cFolders System. It provides a seamless interface between cFolders clients and AutoVue via a Web browser in an intranet or Internet environment.

Markups are automatically saved to the SAP cFolders System server and are available for other users to edit and/or view depending on their document access level.

Vuelink for SAP cFolders and AutoVue provide users with the following powerful features and capabilities - locally or remotely via a Web browser:

- View more than 450 2D, EDA & 3D Engineering and Business document formats.
- Simultaneously work with multiple Markup layers and files.
- Create Markups directly on stored documents or renditions using a rich set of annotation tools.
- Create hyperlink connections to other related documents.
- Consolidate several Markup files (perhaps from different reviewers) into one Markup file.
- Control access to Regular, Read only, Master and Consolidated Markup files.
- Associate Markups with a specific document revision. Markups may be migrated to new revisions as required.
- Graphically compare different revisions of engineering drawings.
- Print documents with headers, footers and Watermark information queried from specified document attributes.

Vuelink for SAP cFolders also provides you with a basis to which other powerful functions can be added via custom designed tools to further enhance the SAP cFolders installation. Custom designed tools offer many possibilities. For example, you could create 'intelligent' custom stamps such as an Engineering stamp that queries for information that could be included as Markups.

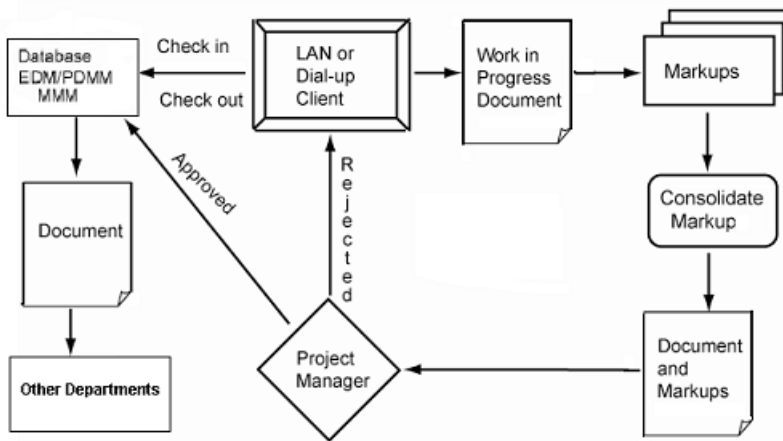
In addition, custom applications could be created to extract relevant information from an AutoCAD or MicroStation file, and automatically link it with information from your SAP cFolders System or any other system. This brings the concept of intelligent drawings to a new level.

And, remember that all these features are available from your Web browser by using Cimmetry's thin-client AutoVue Applet.

AutoVue is fully configurable for you to customize your own tools. If you prefer, contact your account manager or our technical support representatives to discuss the possibilities of us designing a tool to meet your specific business needs.

Why does the SAP cFolders System user need a Viewing/Markup Tool?

Typically, in an organization, a document has a life cycle and is routed to several people as part of a workflow cycle. Refer to the following figure for an example of a possible workflow cycle.



At minimum, there are 3 types of people that interact with a document.

- **Creator/author of a document:** The creator is usually the person responsible for creating or modifying a document with an editing application such as Microsoft Word or AutoCAD.
- **Reviewer of document:** This individual usually reviews a document and provides comments to the author or other reviewer. In a paper-based environment, the document is printed on paper and sent to a list of reviewers. Each reviewer provides feedback in several ways, directly marks up the paper output using a pen, attaches sticky notes, and creates one or more Markups. The annotated document along with other material is then sent to a supervisor who reviews the material (possibly with several other reviewers) and may consolidate the comments into one set. This set is then passed back to the creator for making modifications to the document. Several revisions, or versions of the document may be produced during this process.
- **Document users:** Once the review cycle is complete, possibly involving several versions of the document, the document is published. The final document is made available to those requiring View only access to the

document. At this stage, the document may be provided for viewing either in its native format or as a print rendition.

Vuelink provides the capability of marking up a document and storing Markup information in a separated document in the SAP cFolders System. There are different types of Markup entities offered in addition to hyperlinking capabilities.

Markup File Management

More than one Markup file can be attached to a document or a rendition. In addition, users have the option of displaying one or more Markup files simultaneously. If the currently displayed document has registered Markups, a red light bulb icon displays in the lower left corner of the status bar alerting the user to the existence of one or more Markup files. Markup files are also automatically traced by the revisions of a document so that each revision has a distinct set of related Markup files. When Markups are valid for a subsequent revision they can be promoted to that particular revision.

Engineering Documents

Vuelink is fully equipped to handle complex engineering documents that may consist of external references, layers, and blocks.

Cached Metafiles

With AutoVue, it is possible to enhance the viewing performance of large drawings by using cached metafiles. A metafile is a lightweight format developed by Cimmetry, and represents a true replica of the original format. Every time you view a file with AutoVue and you close the applet window or view another file, AutoVue automatically generates a metafile and checks it into SAP cFolders System.

When viewing a file, AutoVue checks if a cached metafile rendition exists inside SAP cFolders System. If a cached metafile exists, AutoVue checks it out instead of the native file.

SSO Support

With AutoVue, it is possible to take advantage of the SSO feature implemented by SAP cFolders System. For now, SSO with SAP logon ticket is supported. Once the SAP cFolders System is set up with the support of SSO logon ticket, AutoVue does not need any user credentials. It can automatically grab the logon ticket and use it to make connections to the backend system.

AutoVue Features

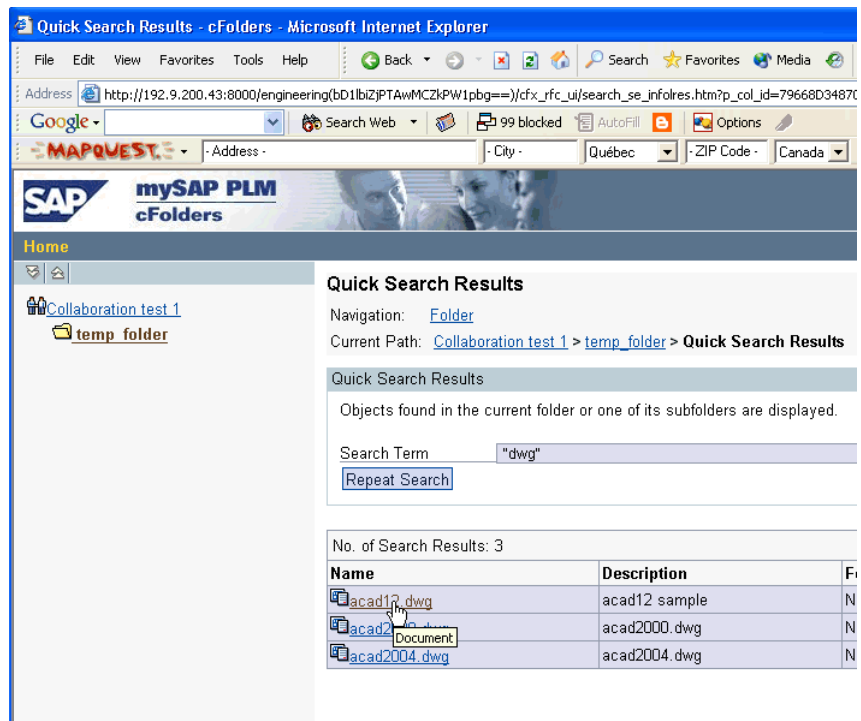
Below is a list of tasks or features in AutoVue and Vuelink for SAP cFolders:

- [Viewing documents](#)
- [Accessing DMS files](#)
- [DMS Browse](#)
- [DMS Search](#)
- [Markups](#)
- [Creating Markups](#)
- [Saving a New Markup File](#)
- [Saving Existing Markup File](#)
- [Displaying Markups](#)
- [Promoting Markups](#)
- [Deleting Markups](#)
- [Consolidating several Markups into a single Markup](#)
- [Saving as Master Markups](#)
- [Printing document attributes as Headers, Footers or Watermarks](#)
- [Converting documents to other formats](#)
- [Comparing Files](#)
- [File Overlays](#)
- [MockUp](#)
- [Batch Printing](#)
- [Cross Probing](#)

Viewing Documents for cFolders 3.1

- 1 Launch your Web browser, and go to the SAP cFolders home page:
Example: http://dmssap47_cfx:8000/engineering/cfx_rfc_ui/default.html
- 2 To log on, enter your **Login Name** and **Password**.

- 3 Browse to the document or search for the document that you want to display with AutoVue. Click the document to display.



The **Document Display** page appears, displaying the document's details

Document - New Document - cFolders - Microsoft Internet Explorer

Address: [http://qasap47.cimmetry:8000/qatest\(bD1lbIZPTAwMCzKPW1pbg==\)/cfx_rfc_u/doc_ov_allversions.htm?tp_col_id=98FF463DDC77B74798C25CAFE](http://qasap47.cimmetry:8000/qatest(bD1lbIZPTAwMCzKPW1pbg==)/cfx_rfc_u/doc_ov_allversions.htm?tp_col_id=98FF463DDC77B74798C25CAFE)

SAP mySAP PLM cFolders

Home Refresh Favor

Navigation: [Folder Overview](#)

Current Path: [QA](#) > [Folder](#) > **New Document**

Document History Discussions Show Details Add

Choose **Save** to save changes made to the name or description (or alias if available).

Name *

Subscribe ☐

Write Lock ☐

Authorization

[Save](#) [Authorizations](#) [Notifications](#) [Assign Status Profile](#) [Cancel](#)

Current Version

To change the file of the current version, click the hyperlink. Use the right-hand mouse button. Make your changes and save them. To upload the changed file back into the cFolder, click **Browse...**, and then **Save**. The existing file is then overwritten.

Download/Open [BSDcFolder.pdf \(124KB\)](#)

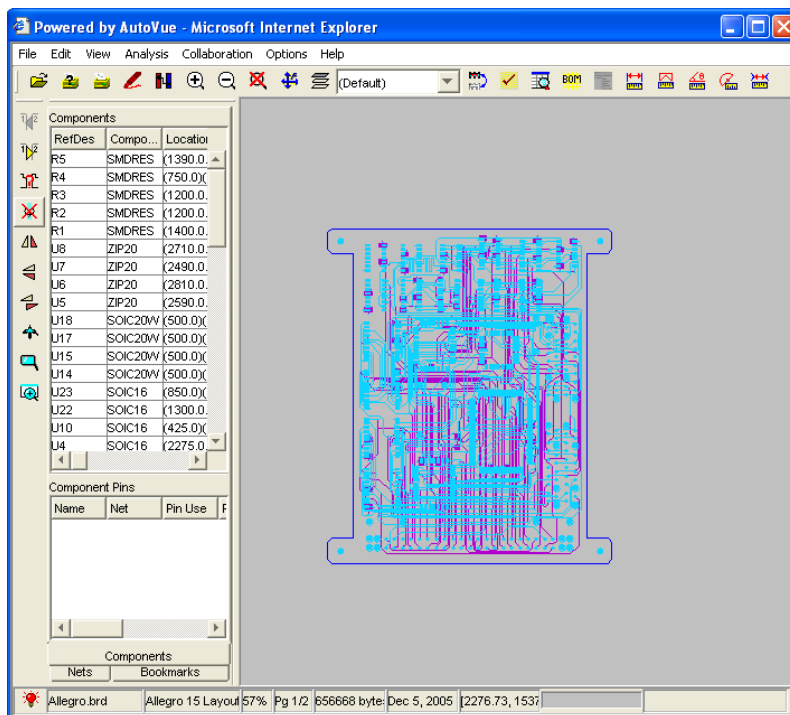
Upload [Browse...](#)

[Save](#) [Cancel](#)

Select a version name to process this version of the document. Click **Create** to create a new version.

Versions						
Name	File	File Size	Description	Redlining Layers	AutoVue	Ch
Version 1	BSDcFolder.pdf	126.184		Q	Q	CIM

- To select a file to display, click the link shown in the **AutoVue** column. AutoVue is launched and the selected file is displayed.



Note To view a file from a local disk or network drive, select a file with the

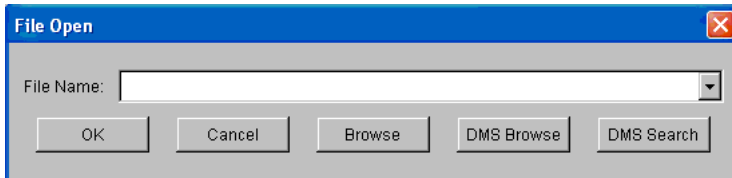
File Open  icon.

- A red light bulb icon  on the left side of the AutoVue status bar indicates that one of the components required to accurately and fully display the document is missing. Resources consist of fonts, External Reference Files (Xrefs), and other resources. Click this icon for details about the missing information.
- A Resource icon  on the left side of the AutoVue status bar indicates that one of the components required to accurately and fully display the document is missing. Resources consist of fonts, External Reference files (XRefs), and other resources. Click this icon for details about the missing information.
- If a document has other files associated with it, as is the case with XRefs, AutoVue checks out all the associated files as well.

Accessing DMS Files

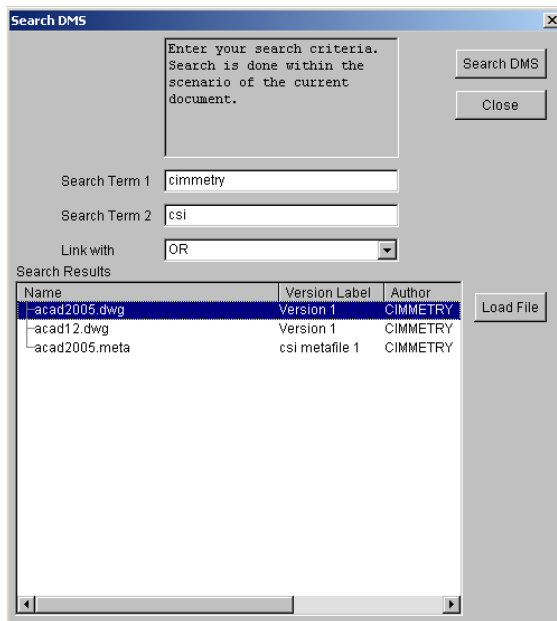
AutoVue provides two ways to access files that are in the cFolders Repository from within the AutoVue window: **DMS Browse** and **DMS Search**. You can use these ways to select files from within the cFolders repository when you need to open files for viewing, comparison, cross-probe, Mockup or Overlays.

If any operation requires you to open files, the **File Open** dialog lets you search or browse the repository.



DMS Search

- 1 Click on the **DMS Search** button in the **File Open** dialog.
A dialog appears that lets you specify a search criteria.



- 2 Specify a search criteria.

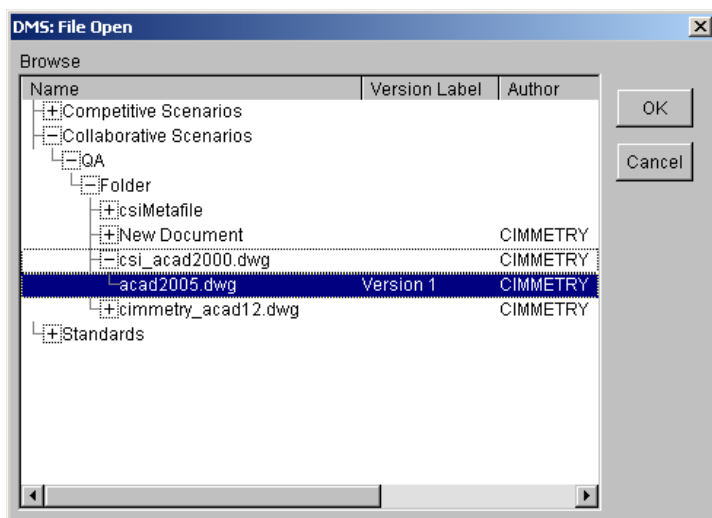
Note You can specify two search terms and link them with **AND** or **OR**.

Example: If you want to search for documents that have *cimmetry* or *csi* in document names, you would specify *cimmetry* for **Search Term 1** and *csi* for **Search Term 2** and link them with **OR**.

- 3 When you finish specifying your search criteria, click **Search DMS**.
- 4 AutoVue looks for all documents in the repository that match the search criteria and populates the **Search results** section with the search results.
- 5 Select a file from the Search results section and select **Load File** to display the file in AutoVue.

DMS Browse

- 1 Click on the **DMS Browse** button in the **File Open** dialog.
A dialog appears that lets you browse through the cFolders repository.



- 2 Browse through the repository and highlight a file, then click **OK** to select the file.

Markups

The three types of Markup files are normal, consolidated, and Master Markups.

- **Normal or regular Markups:** The default Markup when using a brand new setup.

- **Consolidated Markups:** You can load several files simultaneously and edit them to create a consolidated Markup where the contents of all files consolidate to display as one file. This type of Markup is especially helpful when you want to group reviews from various individuals to forward collectively to another person or group of reviewers.
- **Master Markups:** Markup files that display automatically when you open a document. This type of Markup alerts the viewer that important changes were made to the document content. This benefits the workflow cycle when changes to a document need to be noted but the document itself has not been modified in the authoring application.

Creating a Markup

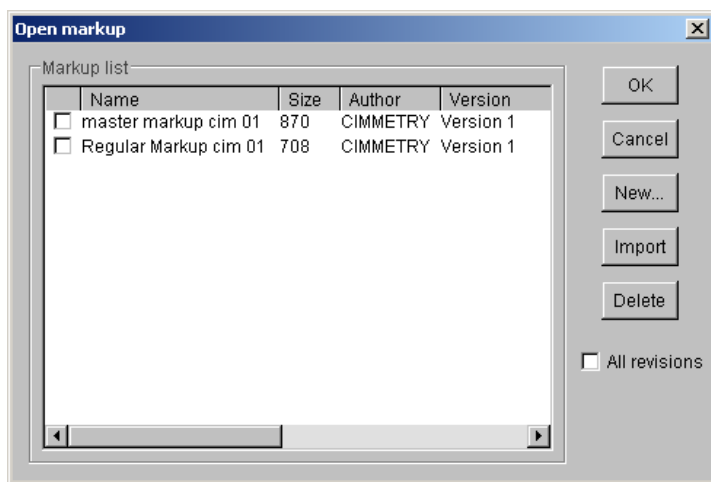
- 1 Display a document with AutoVue.
- 2 Enter Markup mode by selecting **Markup** from the **File** menu or right-clicking and selecting **Markup**.

Note You can also click the Markup icon  from the toolbar.

The current active document is displayed in Markup mode ready for you to create Markups.

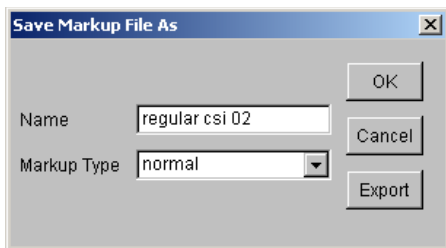
Note

- If after you have finished creating a Markup and you want to create another one, select **New** from the **File** menu. Alternatively, click the New icon  in the toolbar.
 - If there are existing Markups, the **Open Markup** dialog appears.
- To create a new Markup, click **New**. The current active document is displayed in Markup mode. You are ready to create Markups.

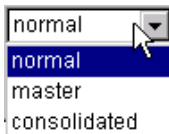


Saving a New Markup File

- 1 Select **Save** from the **File** menu.
The **Save Markup File** dialog appears.



- 2 Enter a **Name**.
- 3 Select the Markup file type. There are three types: **normal** (default), **master** and **consolidated**.



- 4 Click **OK**.

The Markup file is saved and remains displayed in the AutoVue viewing window.

Saving Existing Markup File

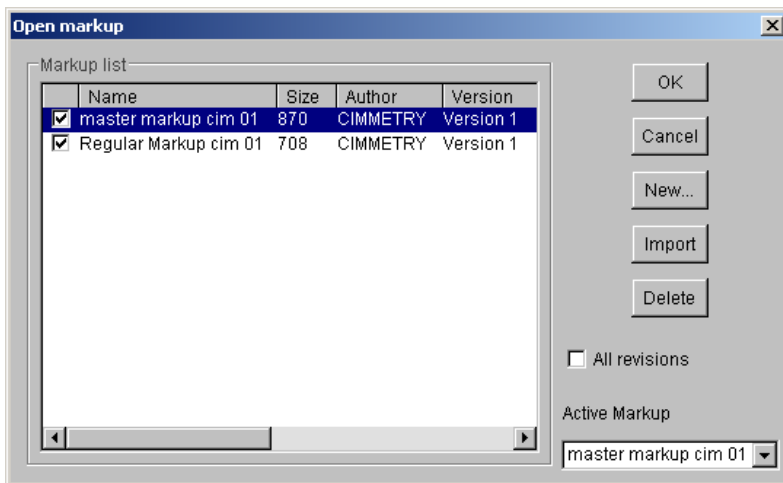
Select **Save** from the **File** menu. The Markup file is saved and remains displayed in the AutoVue viewing window.

Displaying Existing Markups

- 1 After the selected file displays in AutoVue, select **Markup** from the **File** menu or right-click and select **Markup**.

Note You can also click the Markup icon  from the toolbar.

- 2 Select **Open** from the **File** menu.
The **Open Markup** dialog appears.



- 3 Select the Markup file(s) to view, and then select the active Markup.
- 4 Click **OK**.

Promoting Markups

It is possible to promote Markups from an earlier version to the current version of a document. When Markups are promoted, they are saved against the new version of the document.

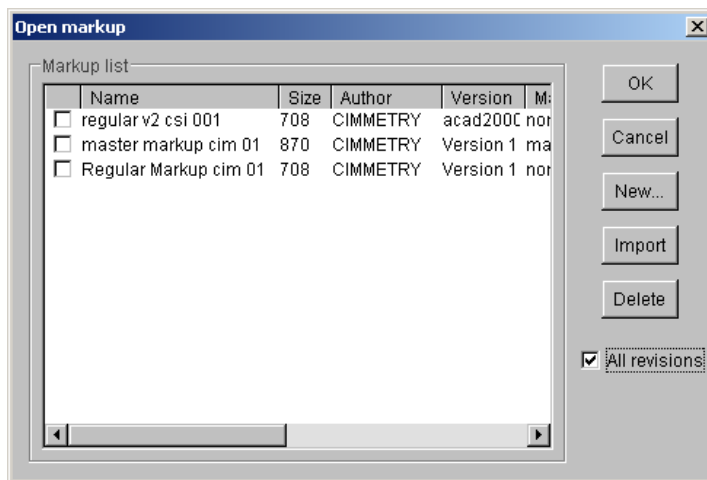
- 1 After displaying a file with AutoVue, select **Markup** from the **File** menu or right-click and select **Markup**.

Note You can also click the Markup icon  from the toolbar.
The **Open Markup** dialog appears.

Note Some columns were narrowed to show the **Version** column.

- 2 To display the Markup files from previous versions of the base file, select **All revisions**.

The Markup files are displayed for the previous version of the base file.



- 3 Select one Markup file from the previous version.
The Markup file will be shown with the current version base file.
Then when you save the selected Markup (with or without any modification), it would be saved as the Markup of the current base file version.
- 4 Enter Markup mode.
If there are no Markups for the document, the document is opened in Markup mode.
- 5 From the **File** menu, select **Open**.
If Markups exist for the document, the **Open Markup** dialog appears.
- 6 Select **All revisions**.
All Markups from all previous versions of the document are now displayed.
- 7 Select the Markup that has to be promoted.
- 8 Click **OK**.
The document is now opened in Markup mode and the selected Markup is displayed.

- 9 From the **File** menu, select **Save as**.
The **Save** dialog appears.
- 10 Specify a name for the Markup and save.
The Markup is now saved with the current version of the document.

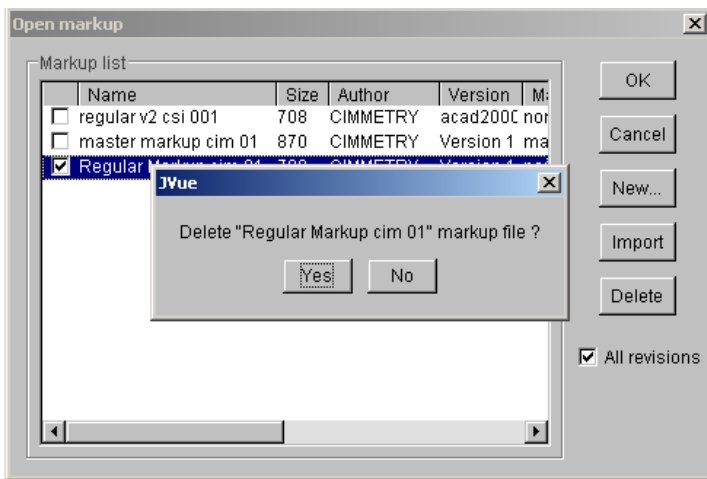
Deleting Markups

- 1 After displaying a file with AutoVue, select **Markup** from the **File** menu or right-click and select **Markup**.

Note You can also click the Markup icon  from the toolbar.
The **Open Markup** dialog appears.

- 2 Select one or more Markups from the list.
- 3 Click **Delete**.
- 4 At the prompt, click **Yes** to confirm the deletion of the Markups you selected to delete.

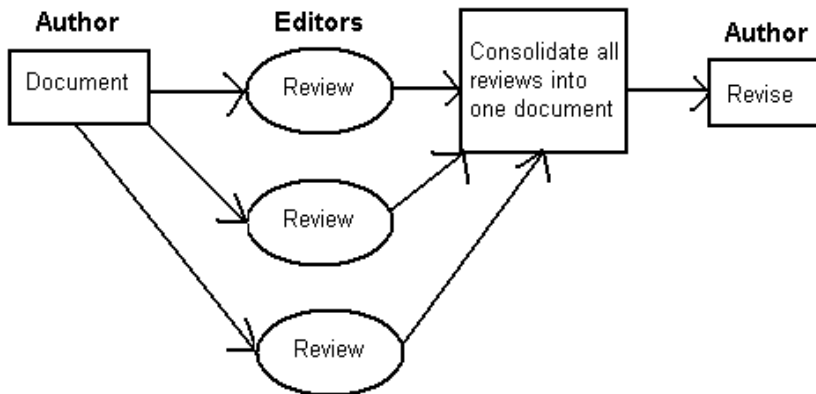
The selected Markup(s) are deleted from the list of Markups in the **Open Markup** dialog.



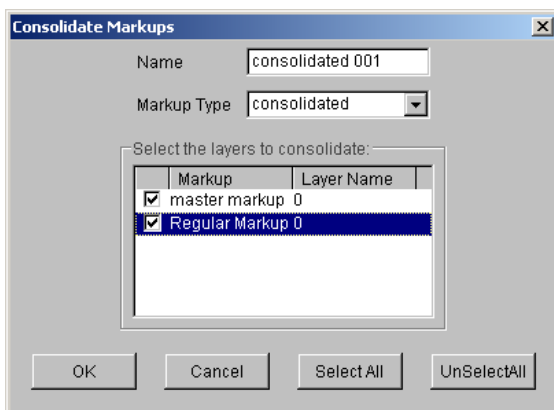
Consolidating Several Markups into a Single Markup

The **Consolidate** option lets you create a new Markup combining copies of selected parts of different Markups. This option is available only if multiple Markups are loaded. During the review cycle consolidation simplifies document

revisions by providing authors with one consolidated Markup rather than several Markup files.



- 1 After the selected file displays with AutoVue, select **Open** from the **File** menu.
The **List of Markup File(s)** dialog appears.
- 2 Select Markup files to view.
- 3 Select the active Markup file.
Your new updates will be saved to the active Markup you selected.
- 4 Click **OK**.
All the selected Markup files are simultaneously displayed.
- 5 From the **File** menu, select **Consolidate**.
The **Consolidated Markups** dialog appears.



- 6 Select the Markup layers you want to consolidate.

- 7 Enter the name of the consolidated Markup file.
- 8 Click **OK**.
- 9 Enter Markup **Name** and **Title**.
- 10 Click **OK**.

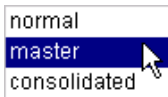
The consolidated Markup file is saved.

Saving as Master Markup

AutoVue tags Markup files as normal, consolidated or master. Master Markups are immediately displayed when their base document is displayed. When viewing a document, Master Markups are automatically loaded and displayed in Markup mode. Although non-owners can view Master Markups, they cannot change the Master Markups or create their own Master Markups.

To save a newly created Markup file as a Master Markup:

- 1 After you have finished marking up a document, select **Save** or **Save As** from the **File** menu.
The **Save Markup File** dialog appears.
- 2 Complete the **Name** field.
- 3 For Markup file type, select **master**.



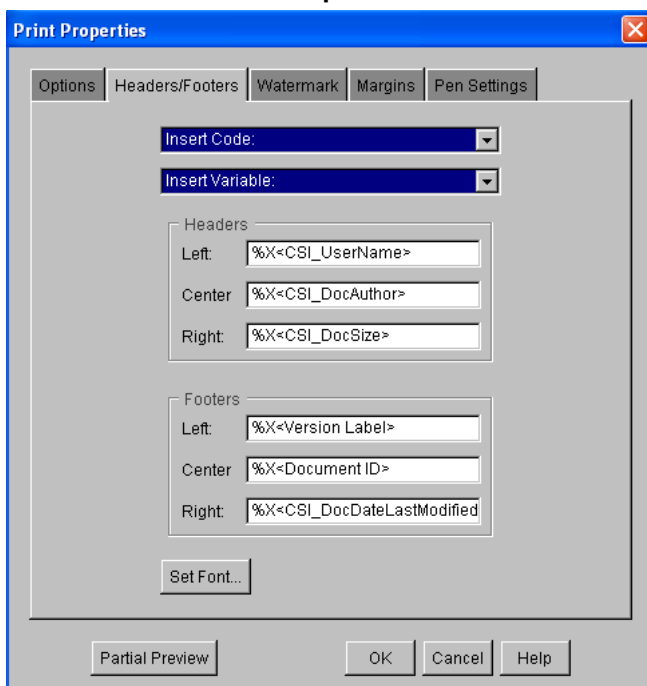
- 4 Click **OK**.
The Master Markup file is created and stored in the Markup database. Now when another user logs on and views this file, AutoVue Markup mode automatically launches, loads your Master Markups and displays them.

Printing Document Attributes as Headers, Footers or Watermarks

With AutoVue, it is possible to print document attributes in a header, footer or as a watermark.

- 1 From the AutoVue **File** menu, select **Print**.
The **Print Properties** dialog appears.

2 Customize the **Print Properties**.



Headers/Footers

This group defines the headers and footers to be included on every printed page of the document.

- 1 Click the **Headers/Footers** tab.
- 2 Enter text manually in the **Header** and **Footer** boxes and/or choose from the **Insert Code** drop-down list box to set the information for headers and footers. Below is the complete list of codes.

%S: Time: seconds
%r: New line
%X<CSI_UserName>
%X<CSI_DocAuthor>
%X<CSI_DocName>
%X<CSI_DocSize>
%X<CSI_DocDateCreate>
%X<CSI_DocDateLastModified>
%X<Document ID>
%X<Version Label>

- 3 When you have finished, click **OK**.

Watermarks

A watermark prints faintly and transparently on the current document's contents. With the **Watermarks** group, the watermark is defined as it will appear on the printed document.

- 1 Click the **Watermarks** tab.
- 2 Enter the text in the **Watermark Text** box. The text displays as it will appear on the document.
- 3 Click **Font** to customize the font.
- 4 When you have finished, click **OK**.

Conversion

With AutoVue, it is possible to convert documents to other formats such as **TIFF** and check in the converted document into the conversion folder in the SAP cFolders System.

Note Only the TIFF format is currently supported for saving as a rendition.

- 1 After displaying a file with AutoVue, select **Convert** from the **File** menu. The **Convert** dialog appears.
- 2 Select **TIFF** from the drop-down list **Convert To Format**.
- 3 Select the checkbox **Output: Rendition**.
- 4 Modify the options for **Scale**, **Size**, **Region**, **Pages** and **Color Depth** if required.
- 5 Click **OK** to start conversion.
AutoVue converts the file to the TIFF format and checks it into SAP cFolders as a rendition to the original file.

Comparing Files

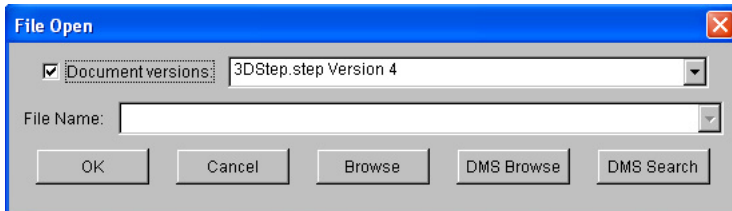
With the Compare feature, documents of the same type (raster, vector or 3D) are visually compared. The two selected files are simultaneously displayed in their own windows with the comparison findings displayed in a third viewing window. This feature is very useful for finding similarities and differences in revisions of a drawing.

With AutoVue, it is possible to compare files that are within the cFolders repository or to compare the current version of a document with any of its past versions.

- 1 After displaying a file with AutoVue, select **Compare** from the **File** menu.

The **Compare** dialog appears.

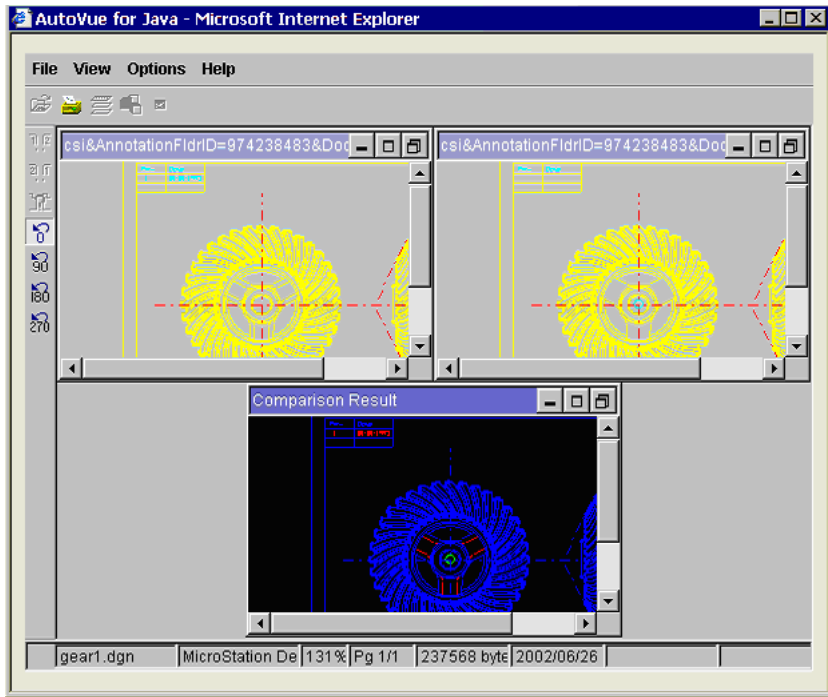
- 2 To compare with a previous version of the document, select a version from the **Document versions** drop-down list.



- 3 To select a file from the cFolders repository, click **DMS Browse**. The **DMS Browse** dialog appears. Browse through the DMS and select a file.
- 4 To search through the cFolders repository, click **DMS Search**. Specify a search criteria and select a file from the Search Results.
- 5 To select a local file, click **Browse**. Browse through the local file system and select a file.
- 6 To specify a URL, type in the URL in the **File Name** field.
- 7 Click **OK** after you select a file.
- 8 AutoVue displays the files in comparison mode.

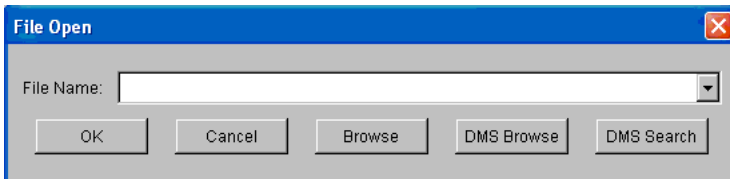
Note For help on accessing the cFolders repository, using **DMS Search** and **DMS Browse**, refer to section [Accessing DMS Files](#).

AutoVue displays three windows: the first contains the original document; the second contains the version to compare against; and the third window contains the comparison results. Additions appear in green, deletions in red, and unchanged parts in blue.



File Overlays

With AutoVue, it is possible to specify a file saved in the cFolders repository for an overlay.



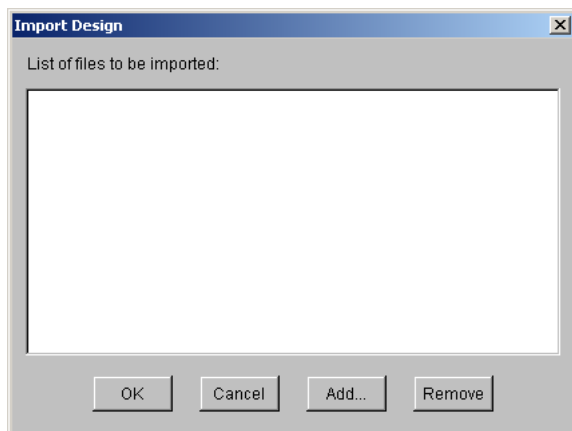
- 1 From the **File** menu, select **Overlay**.
The **File Open** dialog appears.
- 2 To select a file from the cFolders repository, click **DMS Browse**.
The **DMS Browse** dialog appears. Browse through the DMS and select a file.

- 3 To search through the cFolders repository, click **DMS Search**. Specify a search criteria and select a file from the Search Results.
 - 4 To select a local file, click **Browse**. Browse through the local file system and select a file.
 - 5 To specify a URL, type in the URL in the **File Name** field.
 - 6 Click **OK** after you select a file.
- Note** For help on accessing the cFolders repository, using **DMS Search** and **DMS Browse**, refer to section [Accessing DMS Files](#).

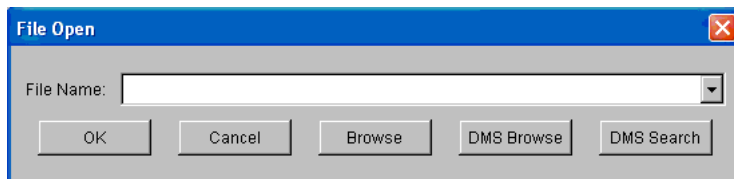
MockUp

With AutoVue, it is possible to import 3D files that are within the cFolders repository or to browse the local file system to select a file for import.

- 1 View a 3D document from cFolders in AutoVue.
- 2 From the **File** menu, select **Mockup**.
The **Import Design** dialog appears.



- 3 To add files, click **Add...**. The **File Open** dialog appears.



- 4 To select a file from the cFolders repository, click **DMS Browse**.

The **DMS Browse** dialog appears. Browse through the DMS and select a file.

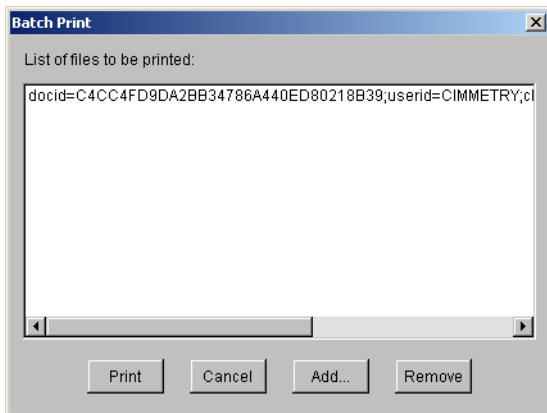
- 5 To search through the cFolders repository, click **DMS Search**. Specify a search criteria and select a file from the Search Results.
- 6 To select a local file, click **Browse**. Browse through the local file system and select a file.
- 7 To specify a URL, type in the URL in the **File Name** field.
- 8 Click **OK** after you select a file.

Note For help on accessing the cFolders repository, using **DMS Search** and **DMS Browse**, refer to section [Accessing DMS Files](#).

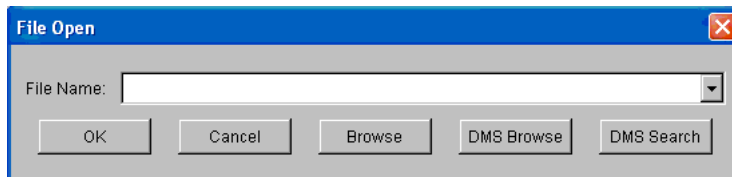
Batch Printing

With AutoVue, it is possible to print a set of files in a single batch. It is possible to select files that are in the repository to add to the list of files to be printed.

- 1 From the **File** menu, select **Batch Print...** The **Batch Print** dialog appears.



- 2 Click **Add** to add files to the **List of files to be printed**. The **File Open** dialog appears.



- 3 To select a file from the cFolders repository, click **DMS Browse**.

The **DMS Browse** dialog appears. Browse through the DMS and select a file.

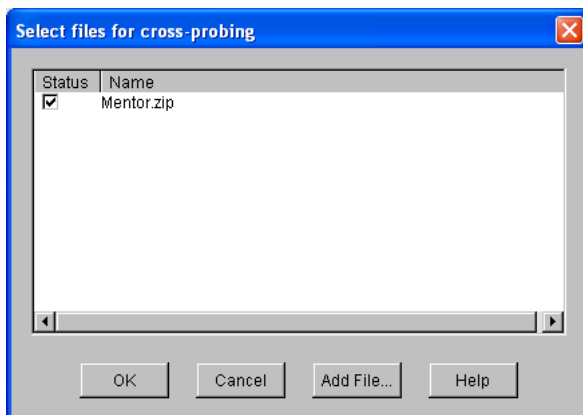
- 4 To search through the cFolders repository, click **DMS Search**. Specify a search criteria and select a file from the Search Results.
- 5 To select a local file, click **Browse**. Browse through the local file system and select a file.
- 6 To specify a URL, type in the URL in the **File Name** field.
- 7 Click **OK** after you select a file.

Note For help on accessing the cFolders repository, using **DMS Search** and **DMS Browse**, refer to section [Accessing DMS Files](#).

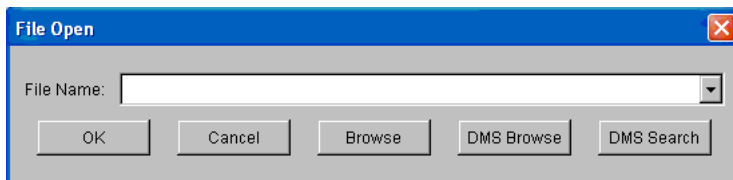
Cross Probing

With AutoVue, it is possible to specify files saved in the cFolders repository for cross probing.

- 1 Select **Cross Probe** from the **File** menu.
The **Select Files for Cross Probing** dialog appears.



- 2 To add files, click **Add File...**. The **File Open** dialog appears.



- 3 To select a file from the cFolders repository, click **DMS Browse**.

The **DMS Browse** dialog appears. Browse through the DMS and select a file.

- 4 To search through the cFolders repository, click **DMS Search**. Specify a search criteria and select a file from the Search Results.
- 5 To select a local file, click **Browse**. Browse through the local file system and select a file.
- 6 To specify a URL, type in the URL in the **File Name** field.
- 7 Click **OK** after you select a file.

Feedback

Cimmetry Systems products are designed according to your needs. We would appreciate you feedback, comments or suggestions. Contact us by fax, e-mail or telephone. We added a feedback button to our Web page that activates an easy-to-use feedback form. Let us know what you think!

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