

Apprentice Remote

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Introduction

Welcome to Autodesk® Apprentice Remote, a software program designed to improve the CAD plotting process.

Apprentice allows you to preview and prepare a set of CAD files, predetermine output options, and print or submit the job electronically.

Minimum System Requirements

- 64 MB RAM
- 60 MB free hard drive space
- Windows NT with Service Pack 5 or Windows 95 or 98
- Windows 2000 with Service Pack 2

Supported File Formats

Vector

- AutoCAD® DWG (R2.5-R2002)*
- HPGL
- HPGL/2
- HP-RTL (color and monochrome)
- CalComp 906/907/PCI

Raster

- CALS Group IV
- NIFF Group IV
- TIFF Group IV
- TIFF Group III
- TIFF packbits
- TIFF Uncompressed
- PostScript (with 3rd-party interpreter)
- PDF (with 3rd-party interpreter)

Overview of Apprentice Remote

Using Apprentice involves four basic steps:

1. Add drawing files to a job.
2. Set print properties such as paper size, scale, etc.
3. Process drawings for viewing or to print to a small-format printer.
4. Send the job to a Windows printer, publish to the Internet, submit to an Apprentice server queue, or archive.

* Apprentice DWG update required.



Job 1						
<<	File	Co...	Drawing Size	Zoom	Paper Size	Me
<input checked="" type="radio"/>	14 Nels-sd1.dwg	1	Unprocessed	100.0%	Arch D: 36.0 x 24.0 ir Bo	
<input checked="" type="radio"/>	hp Nels-a4.plt	1	Unprocessed	100.0%	Arch D: 36.0 x 24.0 ir Bo	
<input checked="" type="radio"/>	Nels-a1.dwg	1	Unprocessed	100.0%	Arch D: 36.0 x 24.0 ir Bo	
<input checked="" type="radio"/>	Nels-a3.plt	1	Unprocessed	100.0%	Arch D: 36.0 x 24.0 ir Bo	

Drawing Size refers to file dimensions. Changes to the drawing size are made with Zoom.

Zoom controls enlargement and reduction.

Pen Set controls the appearance of lines. See "About Pen Sets" on page 8.

Job 1								
<<	File	Co...	Drawing Size	Zoom	Paper Size	Media	Fold	Pen Set
<input checked="" type="radio"/>	Nels-sd1.dwg	1	25.2 x 18.0	100.0%	Arch D: 36.0 x 24.0 ir Bond	No		standard.pen
<input checked="" type="radio"/>	Nels-a4.plt	1	42.0 x 30.0 in	50% Reduce	9.0 x 6.0 in	Film	No	standard.pen
<input checked="" type="radio"/>	Nels-a1.dwg	1	33.6 x 24.0 in	100.0%	Arch D: 36.0 x 24.0 ir Bond	No		standard.pen
<input checked="" type="radio"/>	Nels-a3.plt	1	42.0 x 30.0 in	100.0%	Arch C: 24.0 x 18.0 in Vellum	No		standard.pen

Paper Size refers to the size of the output.

Alignment controls how the drawing is aligned on the paper.

Setting AutoCAD Properties

To control AutoCAD® print properties, click a DWG file in the job window to select it, then click the Properties button.

For AutoCAD files, you must select your plotting method:

- **Extents** will plot the current viewport if you have selected Zoom Extents in AutoCAD.
- **Limits** will plot the limits of the drawings as set by the AutoCAD limit command in the drawing file.
- **Display** will plot what is currently displayed in the current AutoCAD viewport.
- **View** will plot a view saved in AutoCAD. Selecting this option will prompt you to select one of the saved views.
- **Layout** will plot based on layouts predetermined in AutoCAD 2000.

After you set your plotting method, select an AutoCAD scale (Full, 1/4, etc.)

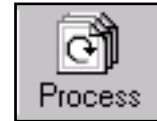
Use the scrollbar at the right of the AutoCAD Properties page to change properties for each file or click **Copy All** to use the same settings for all DWG files.

Please see *Plotting With AutoCAD 2000 Tips for Apprentice Users* in the Apprentice Training & Support section of the Buzzsaw website.

The Apprentice DWG update is required to process AutoCAD DWG files.

Step 3: To process drawings

Vector file formats are processed into a compressed format (.VIC) that is optimized for digital printing. Follow the instructions below to process all drawings in a job. Raster files such as TIFF and CALS do not require processing.



Click the Process button. All vector files are processed. Processed files are indicated with a check mark next to the file name.

Job 1						
<<	File	Co...	Drawing Size	Zoom	Paper Size	M
<input checked="" type="radio"/>	✓ Nels-sd1.dwg	1	25.2 x 18.0 in	100.0%	Arch D: 36.0 x 24.0 in B	
<input checked="" type="radio"/>	✓ Nels-a4.plt	1	42.0 x 30.0 in	50% Reduc	9.0 x 6.0 in	F
<input checked="" type="radio"/>	✓ Nels-a1.dwg	1	33.6 x 24.0 in	100.0%	Arch D: 36.0 x 24.0 in B	
<input checked="" type="radio"/>	✓ Nels-a3.plt	1	42.0 x 30.0 in	100.0%	Arch C: 24.0 x 18.0 in V	

Check marks in the File column indicate the drawing has been processed.

If Apprentice detects errors during processing, warning messages will offer advice on how to resolve them.

View Drawings in a Job

1. In the job window, click a drawing to be viewed to select it, then click the View button. The drawing appears in the viewer.
2. Use the toolbar on the right side of the screen to check and fine-tune the appearance of the drawings.
3. Modifications in the View window will also modify the way the files are printed.

Fit Page: Displays entire image in viewer.		Zoom Select: Moves view of drawing closer or further away by using the left and right mouse buttons.
Move Drawing: Manually adjusts position of a drawing.		Pan View: Moves view across paper but does not move drawing.
Border Removal: Removes border/trim marks from edges of a drawing.		Clip Drawing Outside: Areas outside of a selected drawing.
Edit Pen: Change properties of a selected pen, such as thickness or pattern.		Enlarge Detail: Increases size of a selected area of drawing to current paper size.
Center Drawing: Centers drawing on paper.		Mirror: Reverses drawing information for mirror image.
Tile Block Align: Aligns according to top, bottom, and right edges of paper.		Rotate Drawing Right: Rotates a drawing 90° clockwise.
Rotate Drawing Left: Rotates a drawing 90° counterclockwise.		Flip Drawing: Rotates drawing 180°
Toggle Rasterization: Rasterizes image in viewer so that pen thicknesses, patterns are displayed.		Negative Paper: Reverses background color of viewer from white to black.
Outline Polygon: Removes fills from solid polygons in viewer.		Toggle Color Patterns: Applies color patterns to lines in viewer.

Step 3, continued

Print Check Plots

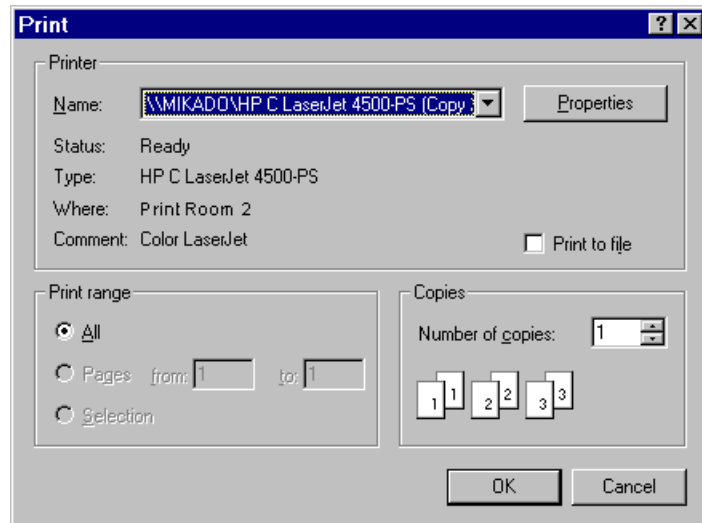
Apprentice Remote can print any supported image up to 9 x 12 inches directly to a Windows printer.

To print to a Windows printer:

1. Click the Print button.
2. Select Windows printing parameter, and click **OK**.

The paper size of a Windows printer is controlled by the current printer settings in Windows, not the paper size in Apprentice Remote.

If you wish to print in color in Apprentice, open the Options menu and select **Windows Printer Uses Color**.



Step 4: To send the job

Apprentice jobs can be sent by modem, FTP, or LAN. Jobs can also be posted to a ProjectPoint™ collaboration site, or published to a Plans & Specs™ digital plan room.



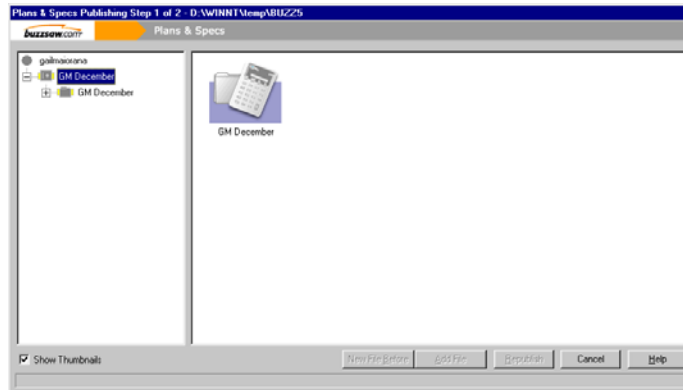
To publish an Apprentice job to a Plans & Specs digital plan room:

1. Open the job containing the files you wish to send.
2. In the toolbar, click Publish. The conversion progress bar shows the conversion progress, then the Plans&Specs Logon message appears.
3. Click Log On. The Login dialog box appears.
4. Enter your www.buzzsaw.com user name and password and the containerlocation for your reprographer.
5. Click OK. The Plans & Specs Navigation dialog box appears.

(continued)

Step 4, continued

6. Click **Take you to the last issue used** or **Let you navigate on your own**, then click OK. The Plans & Specs system publishing wizard appears:



7. In the tree view, click the plus sign for each container level to **showsubcontainers** OR In the browser window, double-click each container icon to **showsubcontainers**. Navigate to the issue in which you wish to publish the documents.

8. Open the issue.

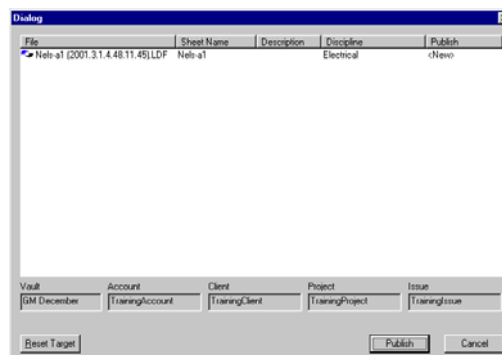
9. If the issue is empty, the Add File button becomes available. Click Add File. OR

If the issue contains documents, several buttons become available. Click a document to select it, then click:

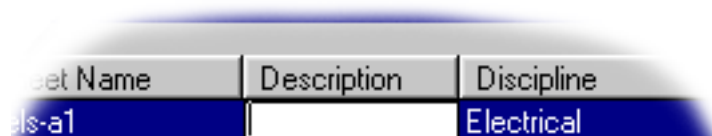
- > **New File After** to publish your Apprentice documents behind the selected file.
- > **New File Before** to publish your Apprentice documents in front of the selected file.
- > **Republish** to publish your Apprentice documents over the existing file.

The Publish LDF file dialog box appears:

10. Double-click any field for any document to enter new information. Press Enter on the keyboard to save the new information:



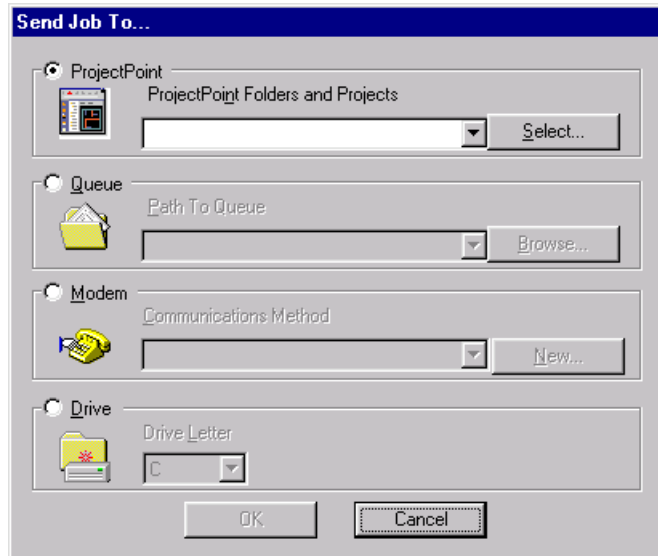
11. Click Publish. A confirmation message appears. The documents are published to Plans & Specs.



Step 4, continued

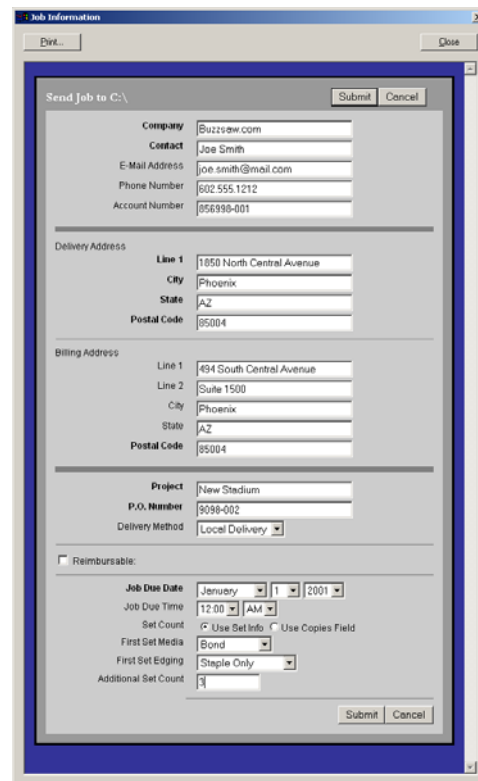
To send to ProjectPoint, a network queue, a modem, or disk:

1. With the Job window open, click the Send Job button.
2. The Send Job To dialog box appears. Select **ProjectPoint**, **Modem**, **Queue** or **Drive** and any required location, then click **OK**.



The 'Send Job To...' dialog box is shown with four radio button options: ProjectPoint, Queue, Modem, and Drive. The ProjectPoint option is selected. Below each option is a text field and a button. For ProjectPoint, the text field is 'ProjectPoint Folders and Projects' and the button is 'Select...'. For Queue, the text field is 'Path To Queue' and the button is 'Browse...'. For Modem, the text field is 'Communications Method' and the button is 'New...'. For Drive, the text field is 'Drive Letter' and the button is 'C'. At the bottom are 'OK' and 'Cancel' buttons.

3. The Work Order appears. Complete the appropriate information and click **Submit**. The job is sent and the order receipt appears.

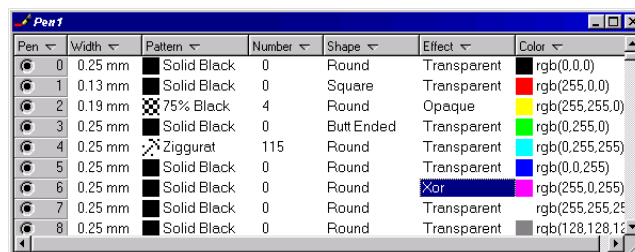


The 'Job Information' dialog box is shown with a 'Send Job to C:\' button at the top left. Below it are fields for Company (Buzzsaw.com), Contact (Joe Smith), E-Mail Address (joe.smith@mail.com), Phone Number (602.555.1212), and Account Number (056998-001). There are 'Submit' and 'Cancel' buttons. Below these are sections for Delivery Address and Billing Address, each with fields for Line 1, City, State, and Postal Code. The Project section has fields for Project (New Stadium), P.O. Number (0098-002), and Delivery Method (Local Delivery). There is a checkbox for Reimbursable. At the bottom are fields for Job Due Date (January 1, 2001), Job Due Time (12:00 AM), Set Count (Use Set Info), First Set Media (Bond), First Set Edging (Staple Only), and Additional Set Count (3). There are 'Submit' and 'Cancel' buttons at the bottom right.

Appendix

About Pen Sets

Pen sets control the appearance of lines. Properties such as line width, shading and color can all be set within Apprentice. Pen sets use standard AutoCAD® colors by default (pen 1 is red, pen 2 is yellow, etc.).



Pen	Width	Pattern	Number	Shape	Effect	Color
0	0.25 mm	Solid Black	0	Round	Transparent	rgb(0,0,0)
1	0.13 mm	Solid Black	0	Square	Transparent	rgb(255,0,0)
2	0.19 mm	75% Black	4	Round	Opaque	rgb(255,255,0)
3	0.25 mm	Solid Black	0	Butt Ended	Transparent	rgb(0,255,0)
4	0.25 mm	Ziggurat	115	Round	Transparent	rgb(0,255,255)
5	0.25 mm	Solid Black	0	Round	Transparent	rgb(0,0,255)
6	0.25 mm	Solid Black	0	Round	Xor	rgb(255,0,255)
7	0.25 mm	Solid Black	0	Round	Transparent	rgb(255,255,255)
8	0.25 mm	Solid Black	0	Round	Transparent	rgb(128,128,128)

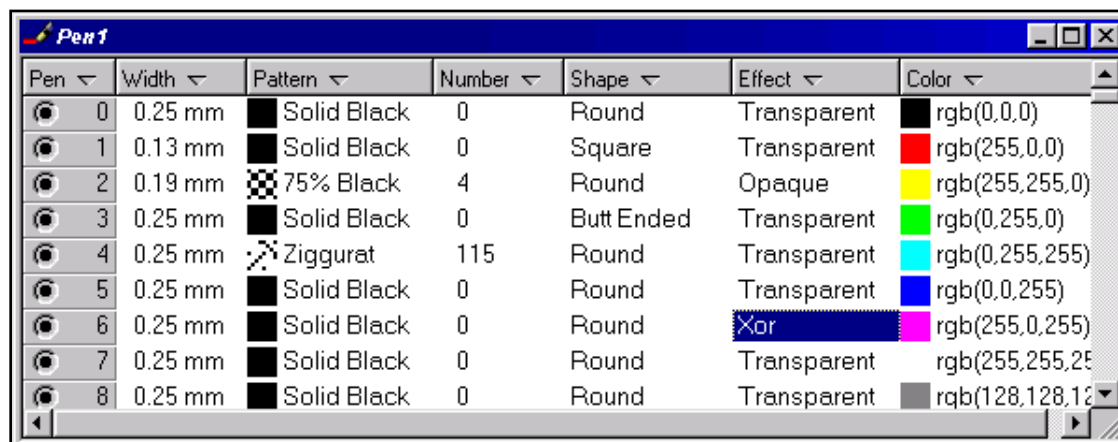
If you are using plot files with embedded pen widths, colors, patterns, etc., you can use embedded pen information or override the embedded pens and use an Apprentice pen set. Press <Ctrl> + H on your keyboard to access these pen controls. For more information, see the online help topic "HP-GL/2 pen control tab."

After installing Apprentice, you should configure your default pen set. Every time Apprentice starts, it uses a default pen set called standard.pen. Apprentice supports an unlimited number of reusable pen sets.

Configure a pen set



1. Select a drawing and click the Pen Set button.
The current pen set appears:



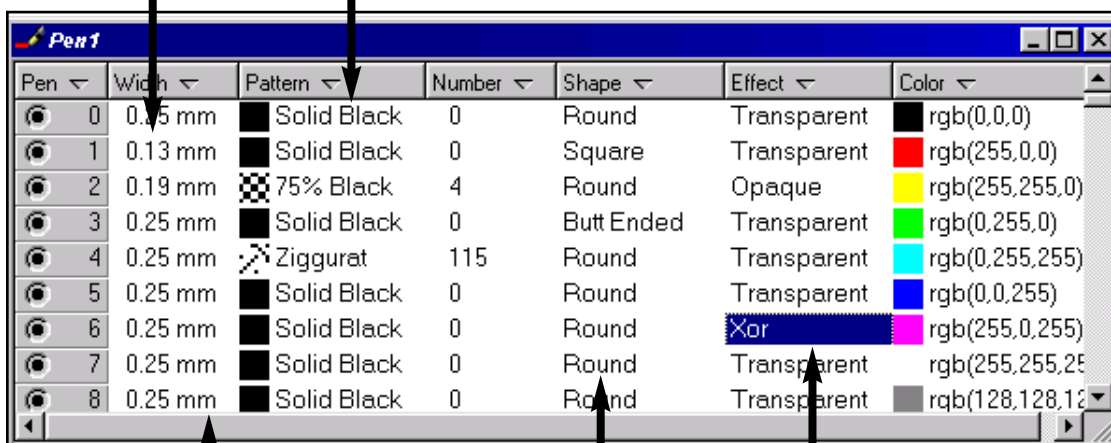
Pen	Width	Pattern	Number	Shape	Effect	Color
0	0.25 mm	Solid Black	0	Round	Transparent	rgb(0,0,0)
1	0.13 mm	Solid Black	0	Square	Transparent	rgb(255,0,0)
2	0.19 mm	75% Black	4	Round	Opaque	rgb(255,255,0)
3	0.25 mm	Solid Black	0	Butt Ended	Transparent	rgb(0,255,0)
4	0.25 mm	Ziggurat	115	Round	Transparent	rgb(0,255,255)
5	0.25 mm	Solid Black	0	Round	Transparent	rgb(0,0,255)
6	0.25 mm	Solid Black	0	Round	Xor	rgb(255,0,255)
7	0.25 mm	Solid Black	0	Round	Transparent	rgb(255,255,255)
8	0.25 mm	Solid Black	0	Round	Transparent	rgb(128,128,128)

2. See the next page in this guide to edit individual pens.
3. After you edit the pen set, save it for future use by opening the File menu and selecting **Save**.

Pen properties

Right-click on a selected pen width to see a menu of common settings, or click Properties in the toolbar to choose from all widths.

Apprentice Remote has 127 built-in pen patterns. Right-click a selected pen pattern to see a list of common settings or click the Properties button to choose from all patterns. Each pattern has a corresponding number.



The screenshot shows a window titled "Pen1" with a table of pen properties. The table has columns: Pen, Width, Pattern, Number, Shape, Effect, and Color. The "Pen" column has a dropdown arrow. The "Width" column has a dropdown arrow. The "Pattern" column has a dropdown arrow. The "Number" column has a dropdown arrow. The "Shape" column has a dropdown arrow. The "Effect" column has a dropdown arrow. The "Color" column has a dropdown arrow. The table lists 9 pens with various widths, patterns, numbers, shapes, effects, and colors.

Pen	Width	Pattern	Number	Shape	Effect	Color
0	0.15 mm	Solid Black	0	Round	Transparent	rgb(0,0,0)
1	0.13 mm	Solid Black	0	Square	Transparent	rgb(255,0,0)
2	0.19 mm	75% Black	4	Round	Opaque	rgb(255,255,0)
3	0.25 mm	Solid Black	0	Butt Ended	Transparent	rgb(0,255,0)
4	0.25 mm	Ziggurat	115	Round	Transparent	rgb(0,255,255)
5	0.25 mm	Solid Black	0	Round	Transparent	rgb(0,0,255)
6	0.25 mm	Solid Black	0	Round	Xor	rgb(255,0,255)
7	0.25 mm	Solid Black	0	Round	Transparent	rgb(255,255,255)
8	0.25 mm	Solid Black	0	Round	Transparent	rgb(128,128,128)

Click this column to change the unit of measurement for all pens (mm, inches, cm, pixels)

Pen shape refers to the appearance of the tip of a pen. Round pens have a rounded tip; square pens have a pointed tip, and butt-ended pens have no tip.

Pen effect refers to the appearance of a line when it intersects with another. A line can be transparent, opaque, or reverse (Xor).

Get Help

Online help is available by opening the Help menu and clicking **Index**.

Additional documentation is contained in the Apprentice User Manual on the installation CD, or on the Buzzsaw web site at www.buzzsaw.com. Both the online help and the manual contain full-text search capability.

Upgrades

Apprentice Remote can only print 8.5x11" locally. However, you can purchase an output driver that will allow Apprentice to print full-size to your local wide-format printer. Please call (800) 782-0753 for more information.

