Cadra Version 2002 Unix
Release Notes

SofTech is pleased to provide you with Cadra - Version 2002 on Unix. Version 2002 includes a number of major enhancements in addition to some high priority corrections. This document will briefly review the new features and changes to Cadra. A summary of the installation process is also included toward the end of the document. The enhancements include:

1. Support for AutoCAD versions 2000, 2000i and 2002
2. Locked layers
3. Hiding Points in Figures
4. Globetrotter licensing

Support for AutoCAD Versions 2000, 2000i and 2002

AutoCAD Versions 2000, 2000i and 2002 DXF file formats are now supported by the Cadra DXF read and write translators. This adds enhanced dimension edit ability in AutoCAD, a new option to read only model space geometry into Cadra and improved output of 2-byte Kanji characters.

It should be noted that Cadra curve dimensions are converted into AutoCAD angular dimensions as AutoCAD does not support a curve dimension type. Also Cadra coordinate dimensions are converted to AutoCAD linear dimensions. Cadra chamfer dimensions are output as blocks of lines and text as AutoCAD does not support a chamfer dimension type. Cadra dimensions with geometric tolerances are also currently output as blocks of lines and text.

Some dimension types output from Cadra in AutoCAD DXF format do not look the same when read into AutoCAD 2000 although they do look the same when read into AutoCAD 14, 2000i and 2002. These include:

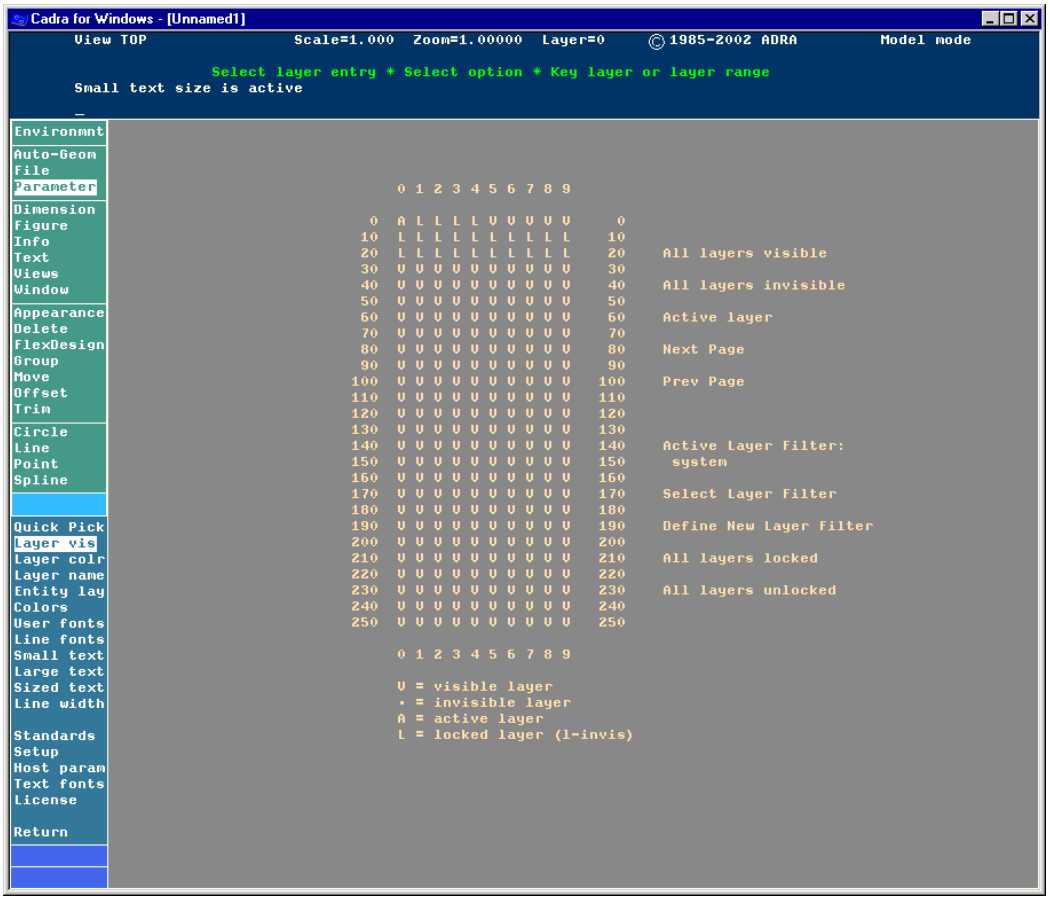
- coordinate dimensions
- curve dimensions
- full circle radial and diameter dimensions with leaders inside the circle

We are working to correct some of these dimension behaviors in future releases of Cadra.

Also note that Cadra does not support AutoCAD 3D geometry and although all entities in AutoCAD viewports are read in, Cadra does not clip the geometry to the viewport limits.

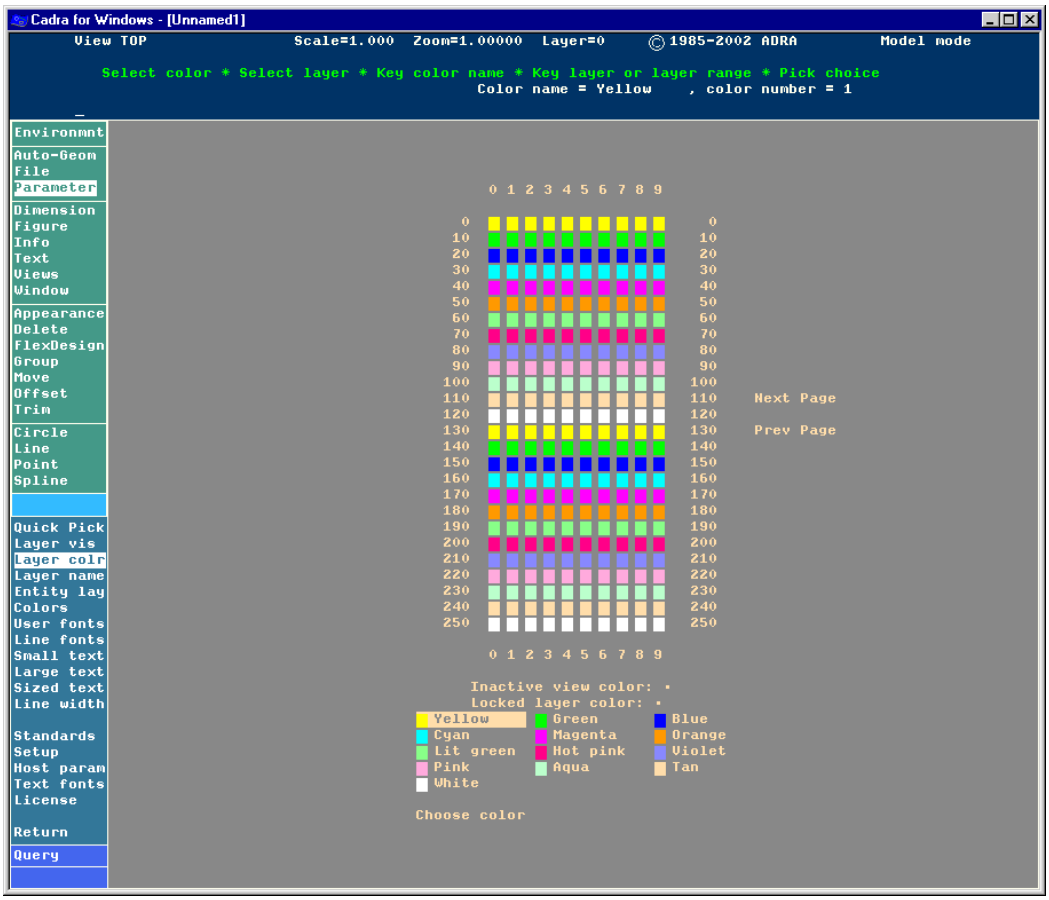
Locked Layers

The ability to lock layers has been added to Cadra. Entities on locked layers are not modifiable although they can be selected. A Locked Layer color can be set to render all entities on locked layers. By default entities on locked layers use their natural layer or entity color. Layers are locked (and unlocked) using the **Layer Vis** menu selection of the **Parameter** function.



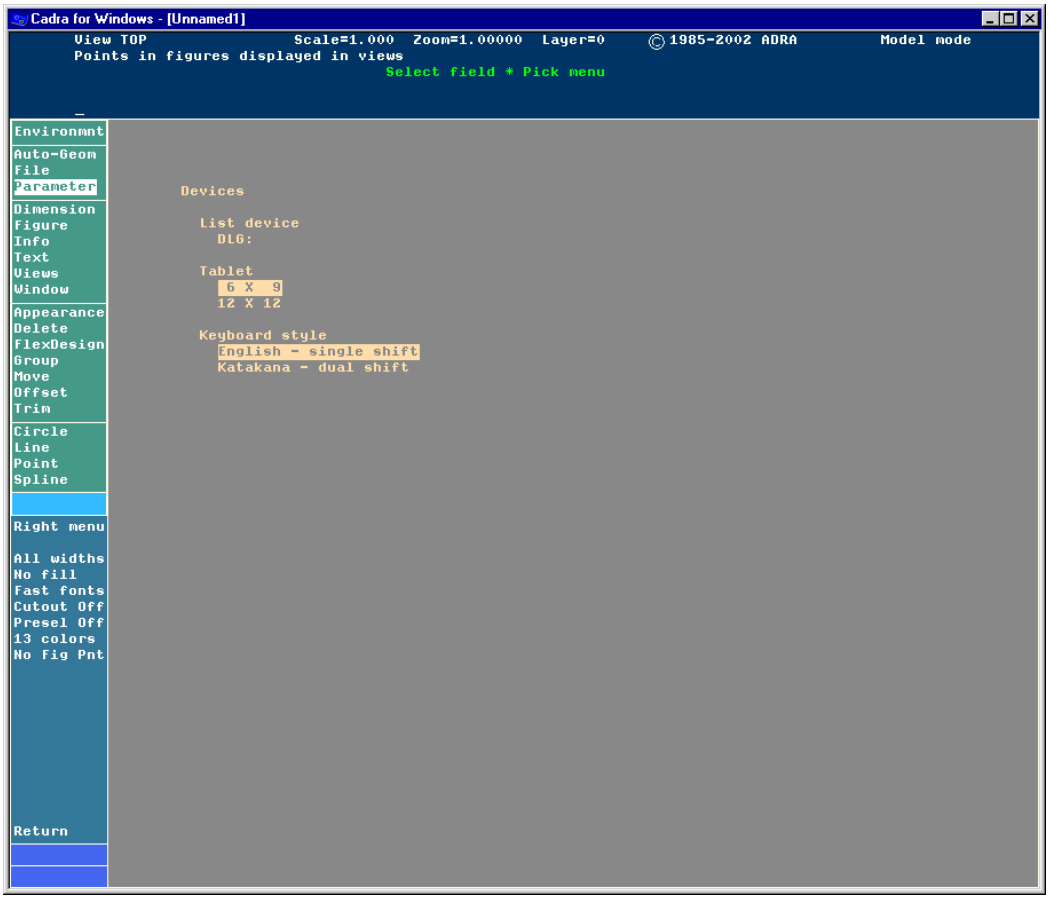
Note that ‘L’ (capital L) signifies a locked layer that is visible and ‘l’ (small L) signifies a locked layer that is invisible.

Locked layer color is enabled and changed in the **Layer Colr** menu selection of the **Parameter** function:



Hiding Points in Figures

Sometimes points are added to figures for construction purposes only. It is then desirable to have these points visible when viewing and editing the figure but have them hidden when viewing the drawing containing the figure. A new option in Cadra allows the user to specify that points in figures are to be hidden when viewing a drawing containing the figures. The new **Fig Pnts** (or **No Fig Pnt**) option is on the **Devices** menu page of the **Parameter/Setup** function. **Fig Pnts** indicates that points in figures are to be visible in the drawing whereas **No Fig Pnts** indicates that points in figures are hidden in the drawing.



Globetrotter Software Licensing

Support has been added for Globetrotter licensing. What this means is you have a choice about which licensing mechanism you use when you purchase Cadra – either Cadra's own licensing or Globetrotter licensing. They both support dedicated and floating licenses.

The significant differences between Cadra licensing and Globetrotter (FLEXlm) licensing include:

- With Cadra licensing, multiple licenses are installed on a single machine by combining them into a single NLS.TXT file. With FLEXlm, multiple licenses may be combined into a single file but they may also be placed in multiple files in a single directory (or even in multiple directories); all the files must have the .LIC file name extension.
- With Cadra licensing, redundant license service is provided by issuing separate license files (with the proper keywords) to the primary and secondary servers. As long as either server is available, all licenses are available. With FLEXlm, a single license file is issued which identifies a set of three servers. As long as two of the three servers are available, all licenses are available.
- With Cadra licensing, each client (end-user) computer is configured to get licenses from a single license server (and possibly from its redundant backup). With FLEXlm, each client computer can be configured to try to get licenses from several independent license servers (and/or from several independent sets of redundant servers).

- With Cadra licensing we provide a GUI tool for installing licenses that allows the customer to check the appropriate combination of boxes and then key in a short license key code. With FLEXlm there is no such tool. The codes that need to be entered are quite long (two 60-digit hex numbers), so electronic delivery of the license files is the only desirable method.

If you choose Globetrotter licensing then you need to do the following:

- For dedicated licenses perform steps 3-7.
- For clients of floating licenses just do step 8.
- For floating license servers perform all steps except 8.

1. Determine if you will be using dedicated licenses or floating licenses. If you will use floating licenses you will additionally need to decide if you will be using a single license server or three redundant license servers.
2. If you are using floating licenses install the Softech FLEXlm License Server on the selected server system(s). The Softech FLEXlm License Server is provided in a separate tar file (hpflexlm.tar for HP-UX and sunflexlm.tar for Sun Solaris). Untar this file into a directory (i.e. flexlm) beneath the Cadra install directory. This package includes the FLEXlm User Guide which documents all the utilities included in the package.
3. Send the name and hostid (output from **lmhostid**) of each system requiring a license to Softech. These are the systems where the dedicated licenses are to be used or the systems to be used to serve floating licenses.
4. Softech will issue license files (*.lic) to you via E-Mail.
5. Save the .lic file(s) you receive to a directory on the licensed systems. If you are using floating licenses this should be the directory that was specified when the license server software was installed as a service.
6. Set the ADRA_NLS symbol to point to the full file specification of your nls.txt file.
7. Create the nls.txt file. If you are using dedicated licenses this is the last step. Place the following line in the nls.txt file:

   .globetrotter <path>

   where <path> is the absolute path to the directory where the *.lic file(s) are. Do not include a file name in this path.
8. If you are using floating licenses you need to create a *.lic file on each client system that points to the server system(s) for a license. This file should contain the following two lines:

   SERVER <server-name> <server-hostid>
   USE_SERVER

   Where <server-name> is the network name of the license server and <server-hostid> is the server hostid. If using three redundant license servers this file should contain three SERVER lines specifying the three license servers.
9. If you are using floating licenses, start the FLEXlm License Manager service on the server systems. To start the FLEXlm server issue the following command

   ```
   % lmgrd –c <path>
   ```

   where <path> points to the directory where you put the .lic license file(s).
10. A shell script is provided to help setup your system to automatically start the **lmgrd** daemon upon a system reboot. It is called **cadralmgrd**. It assumes you have installed **lmgrd** in /usr/cadra/bin/flexlm and that you will also place the .lic files there. If this is not true you will need to edit this file. The file should be placed in the init.d directory and a link should be set from the rc2.d directory. In the following **<root-dir>** is **/sbin** on HP-UX and **/etc** on Sun Solaris and **<number>** is **900** on HP-UX and **99** on Sun Solaris. After cd'ing to the directory where you have initially placed (and possibly edited) the cadralmgrd file issue the following commands:

    ```
    % cp cadralmgrd <root-dir>/init.d/cadralmgrd
    % cd <root-dir>/rc2.d
    ```

```
% ln –s <root-dir>/init.d/cadralmgrd S<number>cadralmgrd
```

11. If you are using floating licenses, you can read the FLEXlm End User's Guide for more information on FLEXlm Utilities and options. If you are interested in additional FLEXlm monitoring utilities you will need to contact Globetrotter directly (www.globes.com).

If you have any questions or concerns regarding updates to Cadra licensing, please contact your local SofTech representative or Cadra/SofTech Customer Service at 1-800-321-2372.

Installing Cadra Version 2002 on Unix

Recommended System Requirements

HP/700 Series Systems:

- HP-UX 10.2
- 32 MB RAM
- 70 MB free disk space (28 MB is for Cadra documentation)

Sun Systems:

- Solaris 5.6
- 32 MB RAM
- 80 MB free disk space (28 MB is for Cadra documentation)

Before You Begin Installation

- Have your Product Authorization License (PAL) available during the installation procedure.
- For detailed information on installation options including license installation, print a copy of the **Installation Guide** in HTML format on the top level of the CD.

Installation Media

Multiple platform and languages versions of Cadra are available on the CD-ROM.

Cadra Installation

1. Log on as root. Do not change user to superuser. You must be logged on as root!
2. Create a hard disk directory to hold the Cadra files. For example:

   ```
   % mkdir /usr/cadra
   ```

   By default Cadra is iinstalled in /usr/cadra. If this directory does not exist, the Installation will create it for you. If you want to specify a different location, execute the install using the following command:

   ```
   % install /usr/applications/cadra
   ```

   Once again, the Installation will prompt:

   Directory does not exist would you like to create?

3. Insert the CD into the CD-ROM drive and create the "mount point," as described in Mounting the CD-ROM.

4. Go to the directory where the Cadra installation resides on the CD-ROM:

```
% cd /cdrom/unix
```

Note: Some machines may have a /CDROM directory. Check with your System Administrator to determine the name of your CD-ROM directory.

5. Run the installation script by typing `./install` followed by the name of the directory you created in Step 2. For example:

```
./install /usr/cadra
```

6. Installation begins by copying the Cadra distribution files from the CD-ROM to the local hard disk. Once this is complete, you will be asked:

```
Install CADRA now? (y,n)
```

Note: There are actually two installation scripts. The first is used to move the Cadra data from the CD-ROM to the destination directory. You are prompted to continue the installation. If you enter "y" a second installation script is run from the destination directory. This script adds the links to /usr/bin (rather than adding the Cadra location to the path). It also creates and installs the Open Windows fonts used by Cadra.

If you choose to run the second installation script later or copy the Cadra directories to another machine, be aware that the second installation script does not check for root privileges. If you do not have root privileges, the installation script will not be able to add the links or create the fonts. Cadra will run using the default fonts if you key in the program path and name.

Answer "y" to install Cadra or "n" to abort the second half of the installation.

If you answer "y" to continue with a full installation, the installation process will continue, compiling Cadra fonts and establishing links to the /usr/bin and /usr/lib system directories. The installation will inform you of its progress by printing status messages as it continues.

If you answer "n" to load Cadra onto your hard disk without making it immediately accessible to all users on the system, the installation will terminate.

7. Once you complete the full installation, activate the software by executing the following commands:

```
%rehash

%cadra
```

The Cadra installation attempts to detect the type of operating system running on your workstations in order to extract the appropriate Cadra software from the CD-ROM. If the operating system is not detected automatically, follow the procedure described in the topic Installing to UNIX Platforms Not Detected Automatically.

Corrective Maintenance

The following corrections are included in this release:

1. Naming figures to no name. Figures can now be renamed to no name. This is an important enhancement because of figure name conflicts. You can now resolve this problem by removing unwanted figure names. This leaves the figure in the database as an unnamed figure.
2. Fonted lines are now rendered using the associated font no matter how short they are. Previous versions of Cadra had rendered very short fonted lines as solid.
3. (SPR 53608) The Trim function was failing to perform correctly when trimming more than one entity at a time. The Trim function now performs the trim correctly on groups of entities.
4. (SPR 53672) Characters codes for Feature Control Symbols (FCS) were being rendered using the standard font in Cadra instead of the user's selected font. This has been corrected to use the user's selected font unless it is a TrueType font.
5. (SPR 53584) The writing of some coordinate dimensions out to AutoCAD DXF files was incorrect. Cadra would crash upon reading back this DXF file. The DXF write function has now been corrected.

Platform Support

Version 2002 has been qualified for the Unix platforms listed in the table below. The CD distributed with this update release contains software for all the following supported platforms.

Workstation	**Operating System**	**Revision Level**
Sun Sparcstation	Sun Solaris	5.6
Hewlett Packard	HP-UX	10.2

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SofTech, Inc.
Two Highwood Drive
Tewksbury, MA 01876, USA
Telephone: 978.640.6222
Fax: 978.858.0440
Web Address: www.SofTech.com