

earthVision Installation for Windows NT/2000/XP

Recommended Minimum System requirements for Windows version:

- For NT4SP6a or 2000 - 32 Meg OpenGL video; 400MHz with 256M memory; 1 Gig free; Internet connection.
 - For XP - 32 Meg OpenGL video; 800MHz with 512M memory; 1 Gig free; Internet connection.
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First-time Installation – skip down to "New installation"

Upgrading:

Login with Administrative rights;

Navigate to the current installation under [Program Files\Dynamic Graphics\ev6 \(or \ev7\)](#). Copy (1) [app-defaults\EarthVisionCommon](#) and (2) [etc\digtab.cfg](#) up 2 folders to [Program Files\Dynamic Graphics](#).

From 7.0.1

If version 7.0.1 is currently installed, only EarthVision software needs to be removed from the system. To do this go to:

[Start -> Settings -> Control Panel -> Add/Remove Programs](#)

Highlight the EarthVision software (ev7) and click on the [Change/Remove](#) button.

When complete, continue beginning at ***New Installation*** (below).

If an earlier version of EarthVision (6.x) is currently loaded, please refer to the next section.

From 6.0.1

If the current version is 6.0.1, both the EarthVision 6.x software and any versions of the MKS Toolkit/NuTCRACKER must be removed. To do this go to:

[Start -> Settings -> Control Panel -> Add/Remove Programs](#)

Highlight the EarthVision software (ev6) and click on the [Change/Remove](#) button.

Then highlight and remove **any** of the following packages that may be installed:

- MKS Platform Components 7.x
- NuTCRACKER UNIX Utilities, Basic
- NuTCRACKER Operating Environment

When these uninstalls are complete, reboot the machine. Continue with ***New Installation.***

New installation:

- Computer

Windows NT4SP6a - Most NT4 systems have the main hard drive partitioned into a small (2 to 4 Gig) **C** partition and one or more larger partitions for the rest of the disk. If the drive is partitioned with a small **C**, odds are it is getting pretty full. This is because 100 percent of installation programs have **C** as the default destination.

It's a good practice to try to install software onto partitions that have lots of free space. EarthVision is no exception so do yourself a favor and change the default destination away from **C** to a larger partition (typically **D** or **E**) whenever you are given the chance.

Windows 2000 and XP - the hard drive is typically one large **C** partition with plenty of space so the destination is usually not an issue.

Only install on the local Workstation and do NOT install or attempt to install onto servers.

- Software*

* Conflicts exist with some Anti-virus software --- McAfee may kill XWin32 and Symantec (Norton) realtime may kill earthVision.

(Have the Distribution Letter and the FLEX instructions handy.)

To run under Windows, earthVision needs 2 "helper" applications - NutCRACKER (installed automatically) and an X-server (separate install).

Of the X-servers that work with earthVision, TIPS is providing XWin32.

If you will be using another X-server, install it and skip to 2.B. "earthVision." (*NOTE: Xwin32 now provides a "migrate" option to convert other X-server sessions to Xwin32 sessions. Details are in Xwin32's Help.*)

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1. Login in with Administrator rights and disable realtime virus scanning and turn off scan Service.
 2. Install Software (XWIN32 and earthVision)
 - A. XWin32 (Skip to C if you are using another X-server)

You may install Xwin32 from either the CD or check for a more current version on Starnet's website. Either option will require the License Key (provided in the Distribution Letter).

There are two versions on the CD: x-win600f and x-win600sf. The "sf" version includes PuTTY (rlogin, telnet, SSH*).

[If you are in a mixed Windows/UNIX/Linux and/or "thin-client" environment, you probably want the added security of PuTTY.]

Open the xwin32 folder on the CD, and double-click on the version of choice. Install on another partition if your C is small, otherwise, just accept all of the defaults. Type in the License Key when prompted.

If downloading from Starnet (<http://www.starnet.com/support/upgrade.asp>) (see graphic), enter the License Key (provided in the Distribution Letter) in the box and click the "Submit" button.

The screenshot shows a Netscape browser window with the address bar containing <http://www.starnet.com/support/upgrade.asp>. The browser's title bar reads "StarNet Communications - Upgrade X-Win32". The website content includes the Starnet logo, a banner for "Bringing UNIX/Linux To Your Windows Desktop" with "X-Win32 X Server for Windows 95/98/ME/NT/2000/XP", and navigation tabs for "Products", "Licenses", "Purchasing", and "Support". A sidebar on the left lists links: "Support Center", "How To Upgrade", "Online Tutorial", "Bulletin Board", "Support Tickets", "FAQ's", "Extra Fonts", and "Licensing Issues". The main content area is titled "X-Win32 Free Upgrade" and contains the following text:

HOW CAN I UPGRADE TO THE CURRENT VERSION OF X-WIN32?

You may be able to use the latest version of X-Win32 with your current license. Enter your license key in the box below. If your license can be upgraded, the latest version will be downloaded.

License Key or VN:

How do I find my license key?

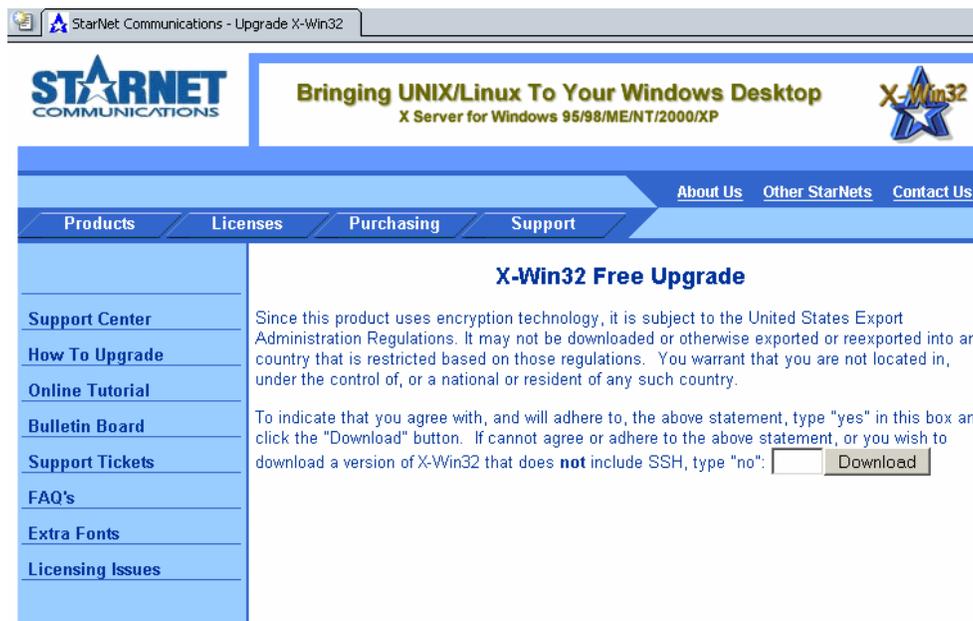
Your license key was included in the email that was sent to you when you purchased your license. If you no longer have this email, it is still possible to find your license key.

- If you have a *floating (or concurrent)* license, your license key will be displayed in the "License" tab in X-Config. Copy that key to the box above.
- Otherwise, if you have installed version 5.4.4 or later, you may obtain the license key from the Registry by using these steps:
 1. Click "Start", then "Run...", then "regedit".
 2. In the left navigation pane, go to `My Computer \ HKEY_LOCAL_MACHINE \ Software \ StarNet \ X-Win32 \ [latest version]`.
 3. In the right value pane, double-click on "LicenseKey". (If LicenseKey isn't in the right pane, go back to step 2 and navigate to `My Computer \ HKEY_CURRENT_USER \ Software \ StarNet \ X-Win32`.)
 4. Right-click on the "Value data", and select "Copy".
 5. Paste this into the box above.

PURCHASING AN UPGRADE

If your license is not upgradeable to the current version, StarNet offers special upgrade pricing. [Generate a quote](#) using our online quotation system, or contact [Sales](#)

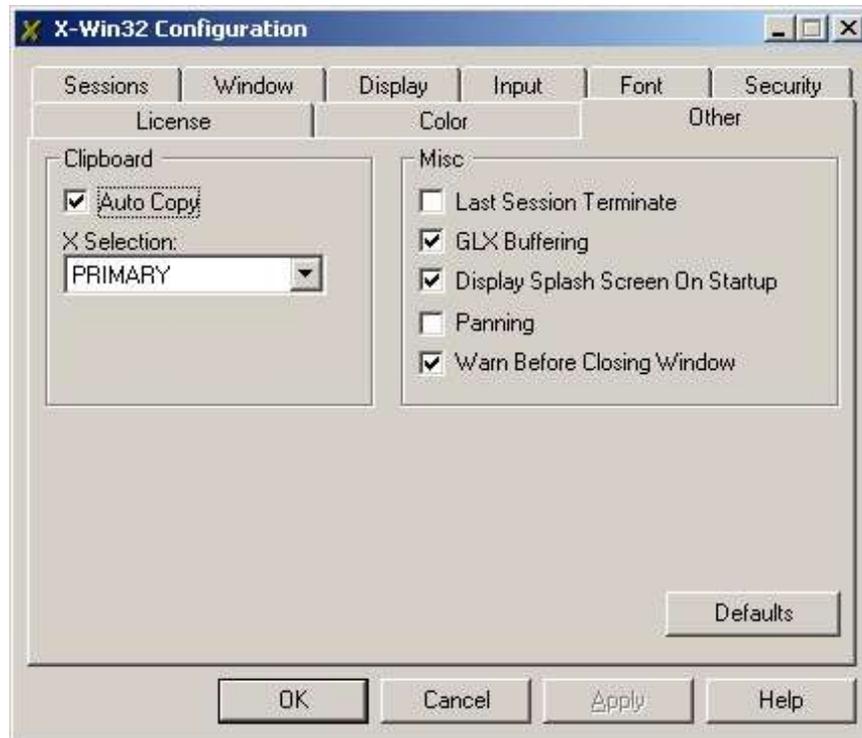
After the License Key has been accepted, you will be asked whether you want the SSH (PuTTY) option (see graphic); enter "yes" or "no."



Download the installation file (about 20 Meg) to a **temporary folder** of your choosing. Navigate to your temporary folder and install XWin32 by double-clicking on the icon. Once again, change the destination partition if **C** is small.

Re-enter the License Key when prompted, select all the defaults (except for install drive - see above) and finish.

After Xwin32 has been installed, go to **Start -> Programs -> X-Win32 6.0 -> X-Config** (see graphic). Click the "Other" tab and check "GLX Buffering." Click OK to exit X-Config. [NOTE THAT EACH USER, REGARDLESS OF RIGHTS, WILL HAVE TO MAKE THIS SAME X-CONFIG CHANGE.]



B. earthVision (be sure the CD is Version 7.5 with "Windows 2000/XP MKS" on the right side.)

Install earthVision from the CD, changing destination as needed. Let the installation run to completion but don't restart computer yet (click the "no" option for later), then finish.

C. Make sure that your folder options have "view Hide file extensions.." unchecked, navigate to [Program Files\Dynamic Graphics\ev7.5\bin](#), and delete [sh.exe](#).

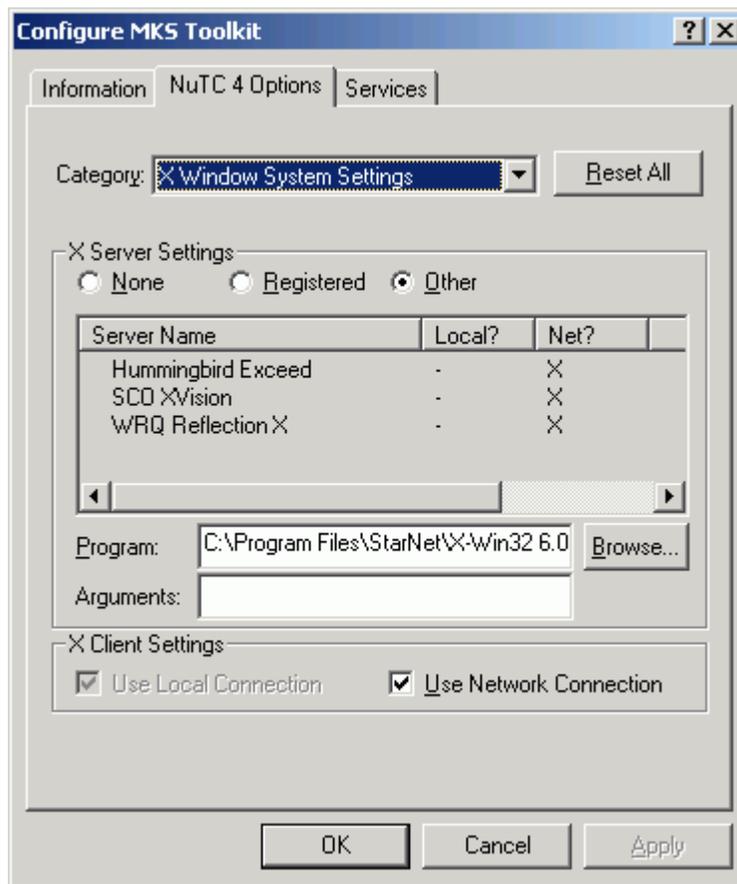
D. If upgrading, navigate to [Program Files\Dynamic Graphics](#) and (1) copy [digtab.cfg](#) down into [ev7.5\etc](#). (2) If you customized the earthVision windows environment for an earlier version, you will need to compare the older [EarthVisionCommon](#) to [ev7.5\app-defaults\EarthVisionCommon](#) and edit the new one to include any customizations.

3. Set the FLEX "System Variable" for earthVision per the Distribution Letter

4. Restart the computer and login as Administrator

Open the Control Panel and doubleclick on the fuzzy gray MKS Toolkit icon. Click the middle tab (NutTC 4 Options), click the down arrow, select last item, "X Window System Settings." If you're using

XWin32, click "Other" and use the "browse" button to navigate to [Program Files\Starnet\X-win32-6.0\xwin32.exe](#). Select it and click "Open" then close out Nutcracker. (see graphic)



If you're using another X-server, check to see if it's one of the "Registered" defaults and make sure it's active.

Once set up, your X-server will start automatically when earthVision is started.

5. Start earthVision

Find the EarthVision 7.5 program group in the Start bar and select EV Main Menu. A worldgraphic of the Southern Hemisphere with a big 7 (and maybe a Release Notes web page) should appear. If it doesn't, XWin32 (or other X-server) isn't running - recheck MKS Toolkit settings from the Control Panel.

6. Test the Installation and License

From the Edit pull-downs (EV Main Menu), start Graphic Editor, click in the selection box at the bottom of the popup files screen so it's highlighted and has a flashing cursor, enter "test.ann" (no quotes)*, hit Enter or click Store, click OK button in the popup Header window, click Done button in the Files popup. If the editor window becomes active and the buttons on the left go from gray to blue, the installation has been successful and you have received a license from the earthVision license server.

If the editor doesn't start, wait a bit to see if you get any licensing error messages.

* I name files I don't care about "test.____" and periodically search 'em out (F3) and make 'em go away.

7. Test under restricted and power user rights.

If your site limits users' rights, login as a restricted user and test the installation. Should work but will be a pain for some modules.

8. Troubleshooting and Fixes

The most likely causes are:

- A. Misspellings of the variable and its value. Double-check Step 3.
- B. Conflicts with anti-virus software. If everything is set right and earthVision starts but you get a "Resource Unavailable" message when trying to start a module like the "Graphic Editor," etc., turn off realtime virus protection. If it won't even start the X-server, disable the antivirus service.
- C. Name resolution to get to the earthVision license server. Rarely, name resolution may fail and a license cannot be obtained from the server. If the problem persists, contact Bill Kannawin - 303-844-1400 x1479.
- D. Connectivity - busted network(s), firewalls, dead server, etc. If your Net connection is good, contact Bill Kannawin - 303-844-1400 x1479.
- E. Windows (all flavors) - rarely, Windows will reset a Registry entry to a system variable that doesn't show up in the Control Panel. Windows will also restore deleted license files. Contact me.
- F. Licenses - as more people start using earthVision, we may need to get more licenses. If you get a denial, try again a few minutes later. As there's no time limit set for licenses, respect other users and exit modules when not in use. Let Bill Kannawin (303-844-1400 x1479) know if denials become a problem.

9. Verbose Install Guide and "Tweaks" - EV75_WinInstall.doc

This is a very useful document from DGI that is installed along with the software. It's in [Program Files\Dynamic Graphics\ev7.5\](#). It provides some more post-install diagnostics, customizations, etc., and descriptions of the NutCRACKER operating environment.

10. Peripheral Input/Output (digitizing and printing/plotting)

The "all_software_digitizers" folder on the CD has additional instructions, tips, and drivers for core software.

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