

Vector NTI Advance™ 11 Installation and Licensing Guide

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Introduction

DLS Customers :

This document does not address DLS Installation or Dynamic Licensing of **Vector NTI Advance 11**. Customers with DLS License should first install and License the DLS software before installing **Vector NTI Advance 11**. For information on DLS installation and dynamic licensing of **Vector NTI Advance 11**, see Installation and Licensing Guide, DLS 3.0, available on the support page of the Invitrogen website.

Note: **Vector NTI Advance 11** is only supported with DLS 3.0 or higher.

Customers Upgrading to Vector NTI Advance 11:

In upgrading to **Vector NTI Advance 11** from previous version of Vector NTI, pay close attention to the comments and directions regarding software versions and database compatibility. The section **Upgrading to Vector NTI Advance 11** begins on page 3.

Vector NTI Advance 11 System Requirements

Minimal System Requirements

- Microsoft Windows:
 - Windows XP (Professional) SP2, Windows Vista (Business) SP1
- Macintosh:
 - Windows XP (Professional) SP2 on Mac with Intel Chipset
- 50 GB HD space
- 512 Mb RAM
- Microsoft Installer Version 3
- Screen Resolution : 1024 X 768 or Higher

Note: Vector NTI Advance 11 is only supported on single processor machines. The software is not designed to run on multi-processor machines; such configurations cannot be guaranteed to operate successfully.

Supported Configurations for Vector NTI Advance 11

Single-User Machines

Windows XP, Vista, Mac with Windows XP

- User must have Administrator rights or higher.
- Install when logged in as this very user. Default location for a new installation are C:\Program Files\Invitrogen**Vector NTI Advance 11** (program files) and C:\VNTI Database (database files). You may have to uncheck UAC to install **Vector NTI Advance 11** on your Vista, to uncheck User Account Control (UAC) see the instructions mentioned in Multi-User installation.

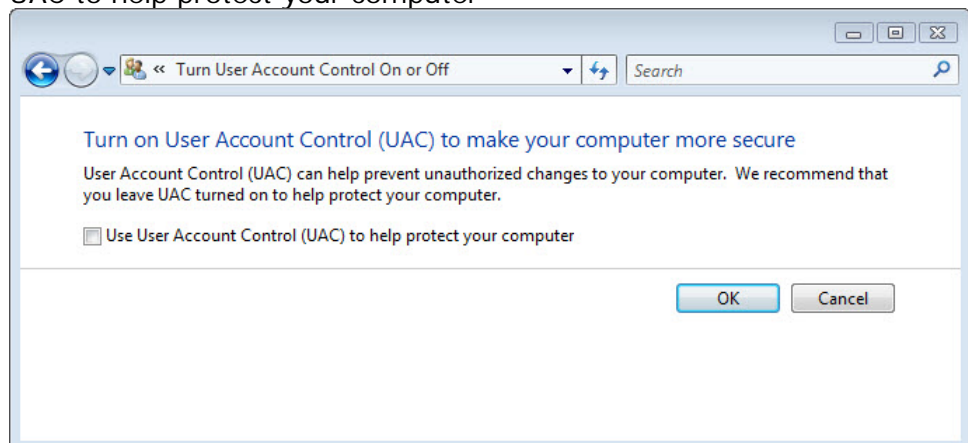
All Supported Multi-User Platforms

Windows XP SP2, Vista SP1, Mac with Windows XP SP2

- User must have Administrator rights or higher.
- **Important:** If you are a Restricted User, you cannot install **Vector NTI Advance 11** on a multi-user machine. If you try to do so, an error message displays, followed by the final screen of the Installation Wizard. Click Finish to exit the Wizard. For details on Multi-User Machine installations, see page 11.
- On a Windows Vista platform, if a default installation is performed, users **MUST** uncheck UAC before installation.

To uncheck UAC :

Go to Control Panel > User Accounts > Turn UAC on or off, uncheck UAC to help protect your computer



Click on OK, restart your computer when prompted.

- Install when Logged in as this very user. Default location for a new installation are C:\Program Files\Invitrogen**Vector NTI Advance 11** (program files) and C:\VNTI Database (database files)

Warning : Success of any configurations and/or operating systems not listed in this document cannot be assured.

Windows XP SP2 / Vista SP1 / Mac with Windows XP SP2

Default locations for a new installation are C:\Program Files\Invitrogen**Vector NTI Advance 11** (program files) and C:\VNTI Database (database files).

Upgrading to Vector NTI Advance 11 from Previous Versions

Important: New Invitrogen Vectors

If you upgrade to **Vector NTI Advance 11** from a previous version and choose to continue working with your existing database, new Invitrogen vectors added in this version will not exist in your database. To obtain those entries you can drag and drop the archive with the file name [DBINIT.MA4] provided in the default database folder (C:\VNTI Database\).

If you choose to overwrite your existing database when you upgrade, the above entries will be part of your **Vector NTI Advance 11** database.

Important: Primer ordering options

During the installation process, you can choose one of the three ordering options: disable ordering entirely, web ordering (the default), or B2B (custom primer ordering). Ordering is done through the Oligo List dialog box. If you are unsure as to the kind of ordering you may wish to do, select the default option. You can change it later as necessary through the Molecule Viewer Options screen. For more information on using the custom primer ordering features, refer to chapter "Primer Ordering API", of the **Vector NTI Advance 11** API manual.

Recommended Steps for Upgrade

If you are upgrading to **Vector NTI Advance 11** from any previous **Vector NTI Advance** version, Invitrogen strongly recommends that you complete the following steps in the order listed:

Step	Action
1.	Backup your existing Vector NTI Advance 11 database. (The database is the repository of molecules, enzymes, citations, BLAST search results, etc. used in your earlier work in Vector NTI Advance). Follow the Database Backup instructions beginning on page 20.
2.	Install Vector NTI Advance 11 . If the Install Wizard detects a previous version of Vector NTI Advance , and provides the option to uninstall it, it is recommended that you select the Uninstall option. Note: If you have Vector NTI Advance 10.3.0/10.3.1 , please uninstall the same manually prior to installation of Vector NTI Advance 11 .
3.	If required restore the Vector NTI Advance database. (Follow Restoring Database instructions beginning on page 21.)

Earlier Vector NTI Advance Version Compatibility

Earlier versions of Vector NTI and 11 cannot coexist on the same machine as separate installations.

Un-installing Previous Versions of Vector NTI

To uninstall a previous version of **Vector NTI Advance**, perform the following steps:

1. Remove the existing **Vector NTI Advance** software using the Windows Add/Remove Programs utility.

For more information on this process, see the **Vector NTI Advance 11** Release Notes, which is part of your **Vector NTI Advance 11** installation, available from among the **Vector NTI Advance 11** listings under the **Start** menu.

Earlier Version Database Compatibility

Vector NTI Advance 11 is compatible with Shared Databases created **Shared** using Vector NTI 7, 8, 9.x and 10.x. Shared Databases created using earlier versions of Vector NTI (v.5.5 or lower) have not been tested with **Vector NTI Advance 11** and cannot be guaranteed compatible.

Installing Vector NTI Advance 11

Preliminary Considerations

Customers with DLS Licenses Before installing **Vector NTI Advance™ 11** on the client machines, the DLS software must be installed and licensed on the DLS server machine. See *Installation and Licensing Guide, DLS 3.0*: Software Support link on the Invitrogen Vector NTI website, <http://www.invitrogen.com/VectorNTI>

Windows XP You must have Windows XP professional edition with service pack 2.

Windows Vista You must have Windows Vista Business with service pack 1.

Mac with BootCamp You must install Windows XP Professional Edition with service pack 2 using BootCamp partitioning software

Note: For installing Windows XP in Mac see the Windows installation on MAC as a separate document.

Microsoft Windows Installer 3 You must have MS Windows Installer v3 or higher installed on your machine in order to successfully install **Vector NTI Advance 11**.

Note: With Windows XP SP2 and Windows Vista SP1, Windows Installer v3 is already installed.

Important **Vector NTI Advance 11** cannot be installed as an update to an earlier version of Vector NTI and both **Vector NTI Advance 11** and earlier versions cannot coexist on the same machine.

It is recommended that you uninstall any previous version of **Vector NTI Advance** before installing **Vector NTI Advance 11**.

It is strongly recommended that as a precaution, you first perform Vector NTI Database Backup before removing any Vector NTI version.

Vector NTI Local Database

The **Vector NTI Advance** database is generally designed for local installation (i.e. installation on the same machine on which the **Vector NTI Advance** program files are installed.)

Vector NTI Local Database Installed on a Network

You can successfully install and use a local **Vector NTI Advance 11** database on a network drive under two scenarios:

- If your organization has implemented Microsoft Roaming User Profiles, you can access the database from any computer other than your own. These criteria must be met:
 - The computer must have Vector NTI installed and licensed.
 - You must log in as yourself.
 - The local database must be installed on a mapped network drive.

- If you do not have a Microsoft Roaming User Profile, you can store your local database on a network drive. Each time, however, that you try to access the database on a computer other than your own, these criteria must be met:
 - The computer must have Vector NTI installed and licensed.
 - You must re-point Vector NTI to the database on the network.

New Vector NTI Advance 11 Installations

How to Install from the Invitrogen Website :

To install **Vector NTI Advance 11** from the Invitrogen web site, follow these steps:

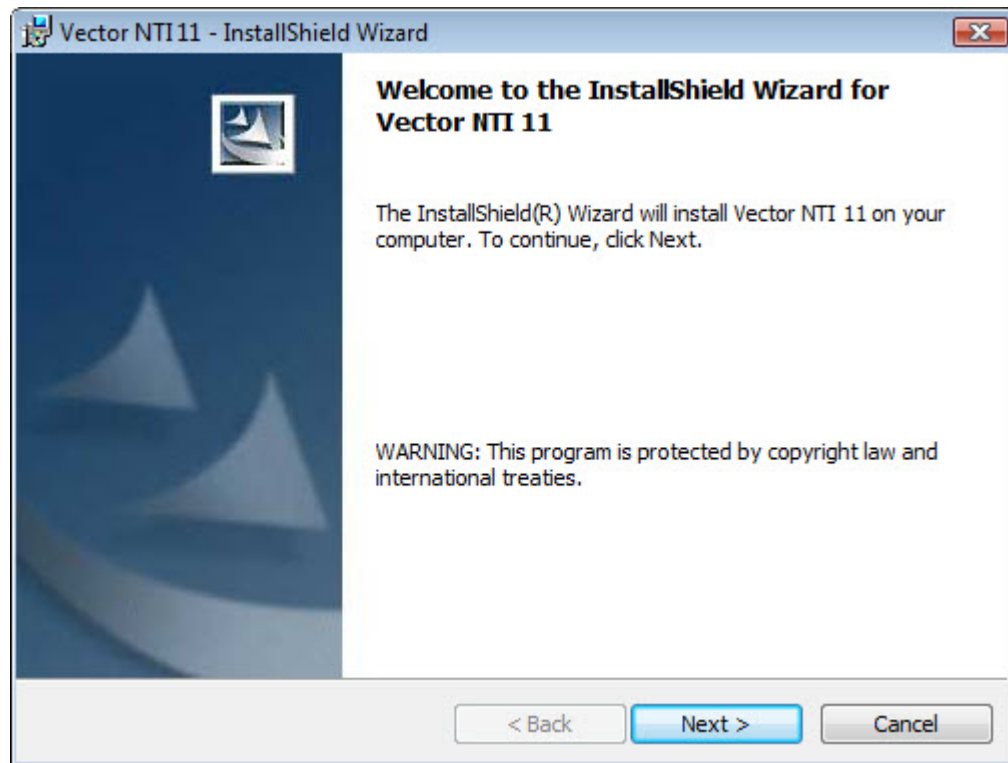
Step	Action
1	Check your system compatibility with VNTI installation requirements and upgrade your Windows Installer, if necessary. For more information on this process, see <i>Preliminary Considerations</i> on Page 4.
2.	To download the most current version of Vector NTI Advance 11 , go to this page on our website: http://www.invitrogen.com/VectorNTI
3.	Follow the instructions for downloading the most recent version of the software.
4.	Once you have downloaded the installer to your machine, launch it and step through the Installation Wizard screens as described in the following section, beginning at Step 5.

How to Install from a Vector NTI CD-ROM :

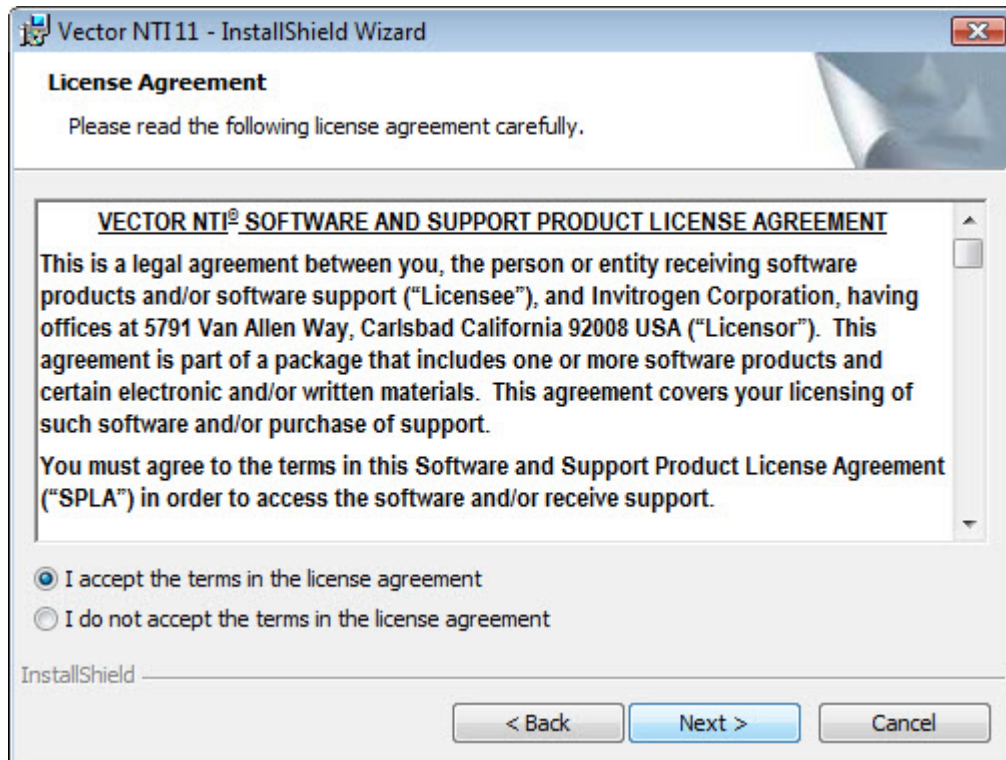
To install **Vector NTI Advance 11** from a **Vector NTI Advance** CD-ROM, perform the following steps:

Step	Action
1.	Insert the CD-Rom into the CD drive. If Auto Run has been configured on your computer, the Vector NTI Advance CD Browser opens automatically. If this does not occur, select Start > Run . In the Run dialog box that opens, enter the CD drive and name of the executable file. Example: E:\setup.exe. Click OK , opening the Vector NTI Advance CD Browser.
2.	Check your system compatibility with VNTI installation requirements and upgrade your Windows Installer, if necessary. For more information on this process, see <i>Preliminary Considerations</i> on page 4.
3.	Click on Installation and Documentation .
4.	Click on Setup.exe . This begins the software setup. You may need to reboot your system while the system components are being upgraded. Note: Double-click on the installation icon again if the installation does not start automatically after the reboot.
5.	Step through the Installation Wizard screens, following the directions given in each. The screens are summarized below.

Screen 1: Welcome screen

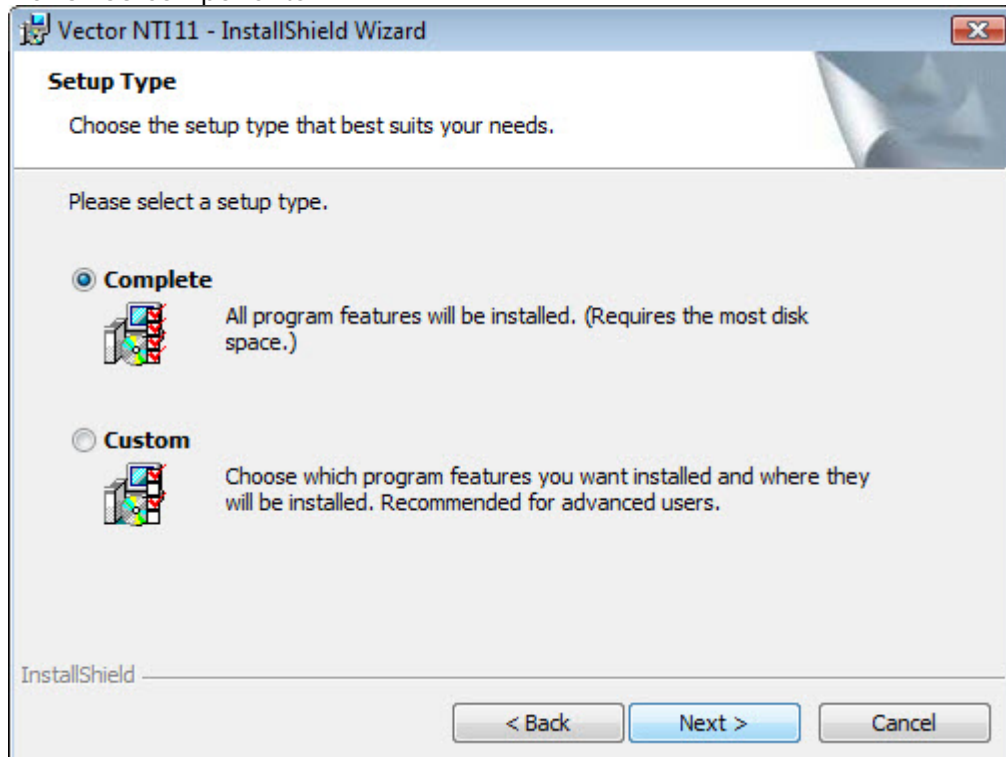


Screen 2: Licensing agreement.

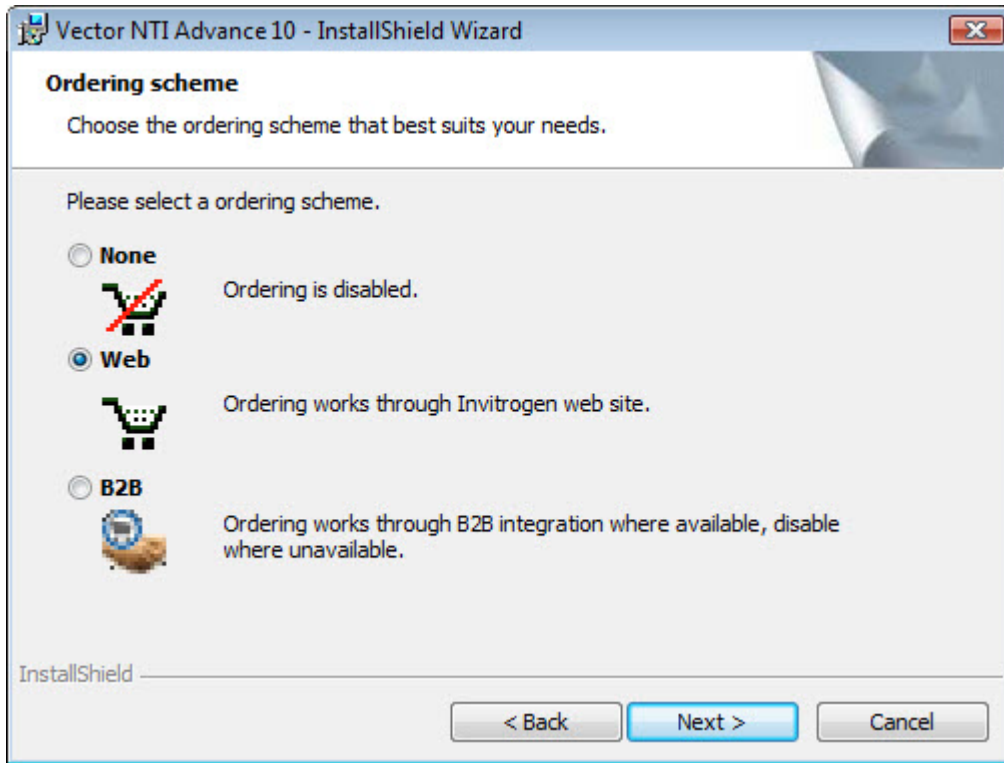


Screen 4: Select the installation type, **Complete** (recommended) or **Custom**.

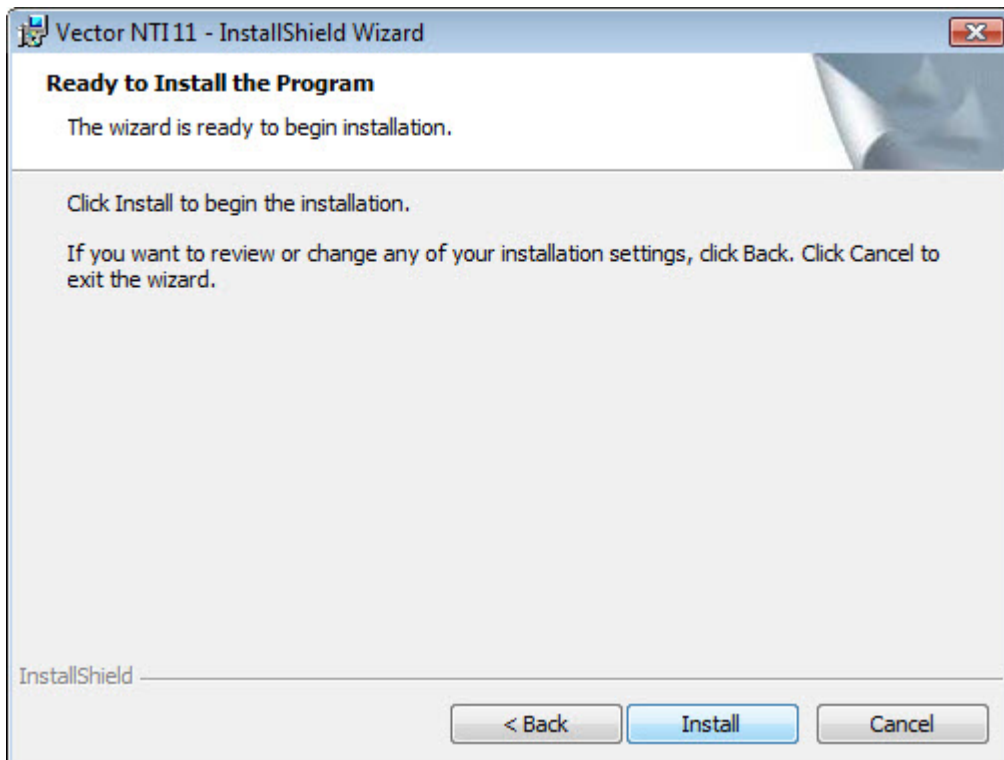
Selecting the **Complete** option installs all **Vector NTI Advance** components. The **Custom** option allows you to install selected **Vector NTI Advance** components.



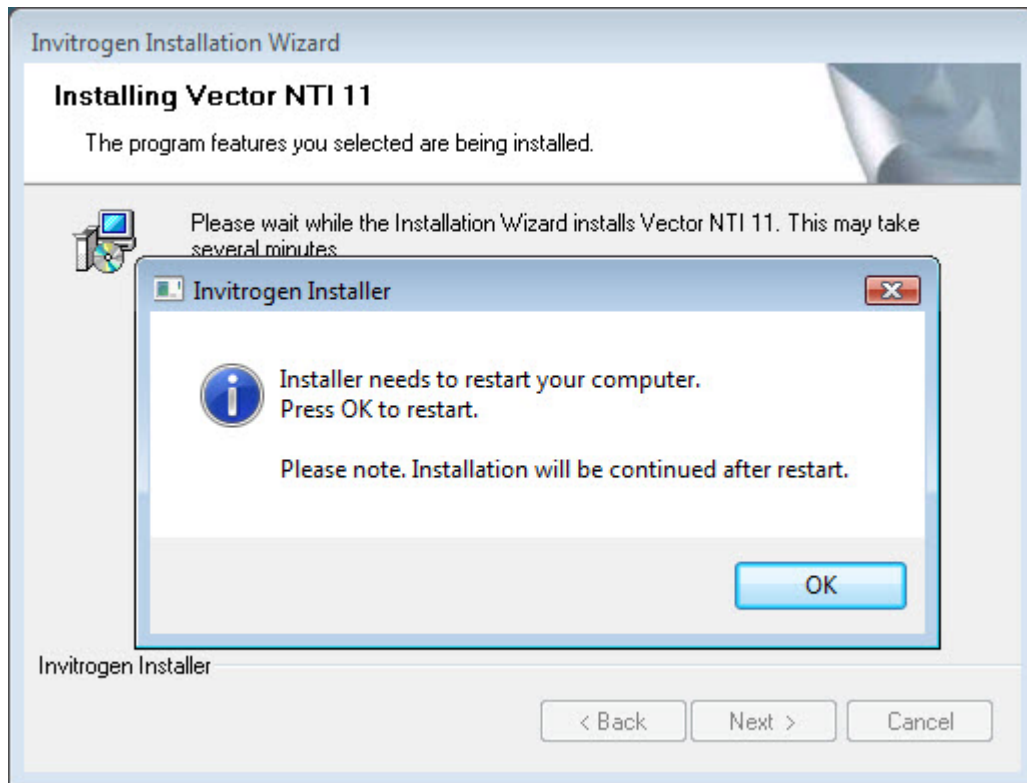
Screen 5: Choose the appropriate ordering options from the screen.



Screen 6: All parameters have been set and the Installer is ready to install the program. Click the **Install** button to begin the installation process.

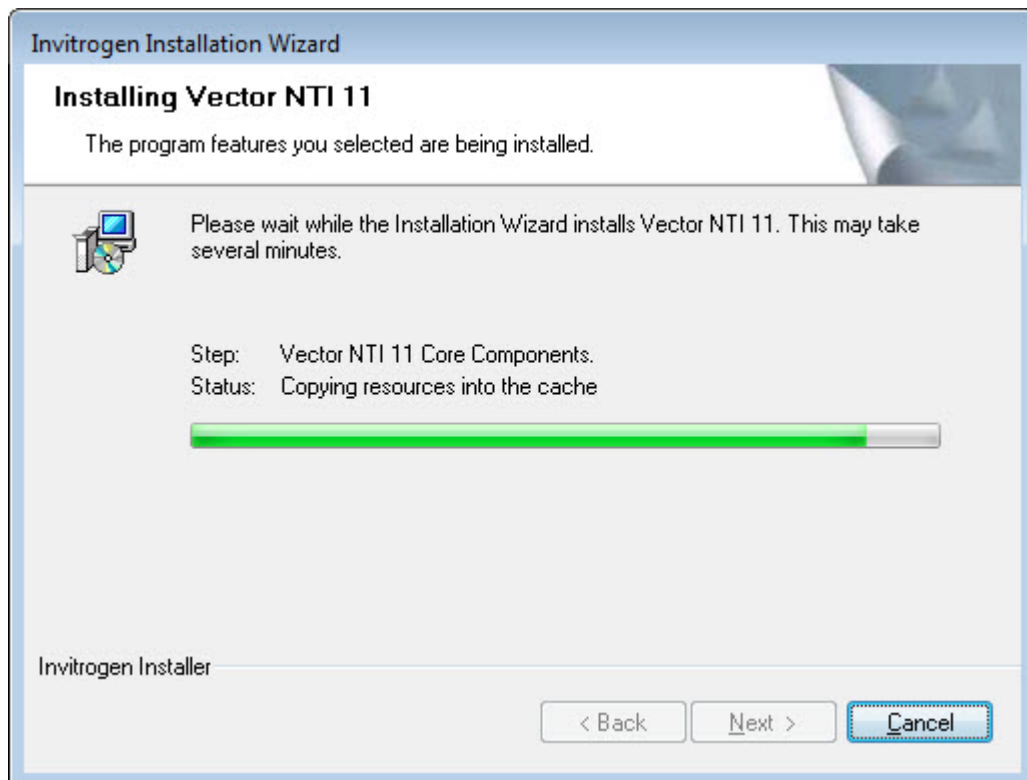


Screen 7: The system will restart when the necessary files get updated.

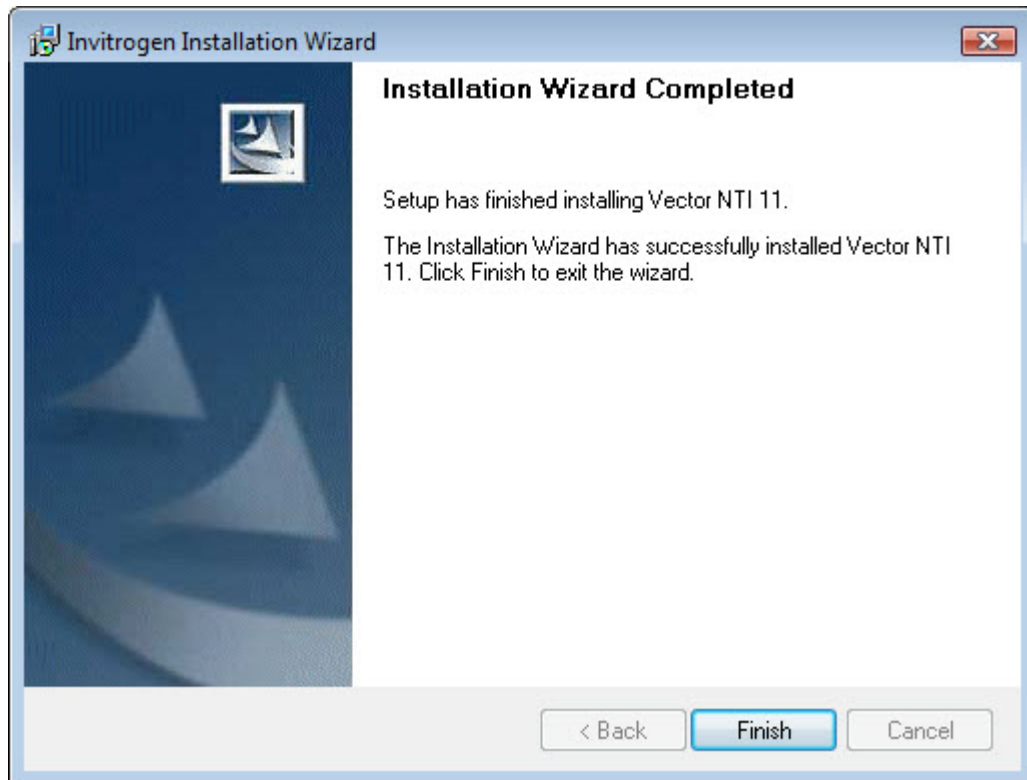


Note: The system will restart only if Vector NTI is getting installed for the first time on a particular system.

Screen 8: The installation continues once the system restarts



Screen 9: Once the software is installed completely the following screen appears.



6. The installer loads the **Vector NTI Advance** files and initializes the registry. When the setup is concluded, click the **Finish** button.
Note: At the completion of the installation process, you must open License Manager to license your **Vector NTI Advance** software (see Licensing **Vector NTI Advance**, page 19).

How to Perform a Single Install for Multiple Users on Win XP /Vista/Mac with Win XP

Only a user with admin rights can perform a single installation for multiple users on the same machine for the specified supported platforms.

The installation procedure includes a Primary Installation under the admin log in, after which other users can access the Primary Installation (users may have to apply their **Vector NTI Advance 11** license number).

With this type of installation (multiple VNTI users on the same machine), one VNTI database can be created and shared or a unique database can be created in a separate location for each user.

Installing and Licensing the Primary Installation

Step	Action
1.	Perform the Primary Installation: A person with full administrative rights (Administrator) on a Windows XP/Vista/Mac machine installs Vector NTI Advance 11 for the first time on the system, following the installation directions given in the previous sections. This person must also add new users to the group that will have access to the installed Vector NTI (follow the directions accompanying Windows XP/Vista/Mac for adding new users). Note: It is the administrator's responsibility to provide users with their Vector NTI Advance license number, in the case of static licenses, or DLS address, in the case of dynamic licenses, so that they can license the software. Important: If the primary installation database is to be accessed by other users, it must be placed in a non-restricted root directory (i.e. C:\...).
2.	After the primary installation is complete, select Start > Programs > Invitrogen > Vector NTI Advance 11 > License Manager . License Manager opens with a default setting of Demo mode for all applications.
3.	Proceed through the licensing steps described in the Licensing section of this Installation Guide for the license type you have purchased (see page 14).
4.	If a single VNTI Database is to be shared by all users on the machine, open Vector NTI and populate the VNTI Database (see Opening Vector NTI Advance Applications, page 26).

Creating Separate User Databases

Step	Action
1.	Once the Primary Installation has been performed, log on as the user. Choose Start > Programs > Invitrogen > Vector NTI Advance 11 > Vector NTI Explorer to launch the Vector NTI Exploring Local Database window.
2.	In the Exploring Local Vector NTI Advance database window, choose Database > Select Local Database from the menu. This launches the Choose Local Database Directory dialog box where you can create a new database (or direct Vector NTI to another existing database).
3.	Select the location for the user's database and press the New Directory button. This allows you to define a new folder at that location to hold the new Vector NTI Advance database. Specify the new folder's name (for example, <i>VNTI Database – User 1</i>) and press the OK button. The new path/folder appears in the Choose Local Database Directory dialog box.
4.	Press the OK button. Press Yes to confirm that you want to create a new database.

How to Install Vector NTI Advance 11 from the Command Line

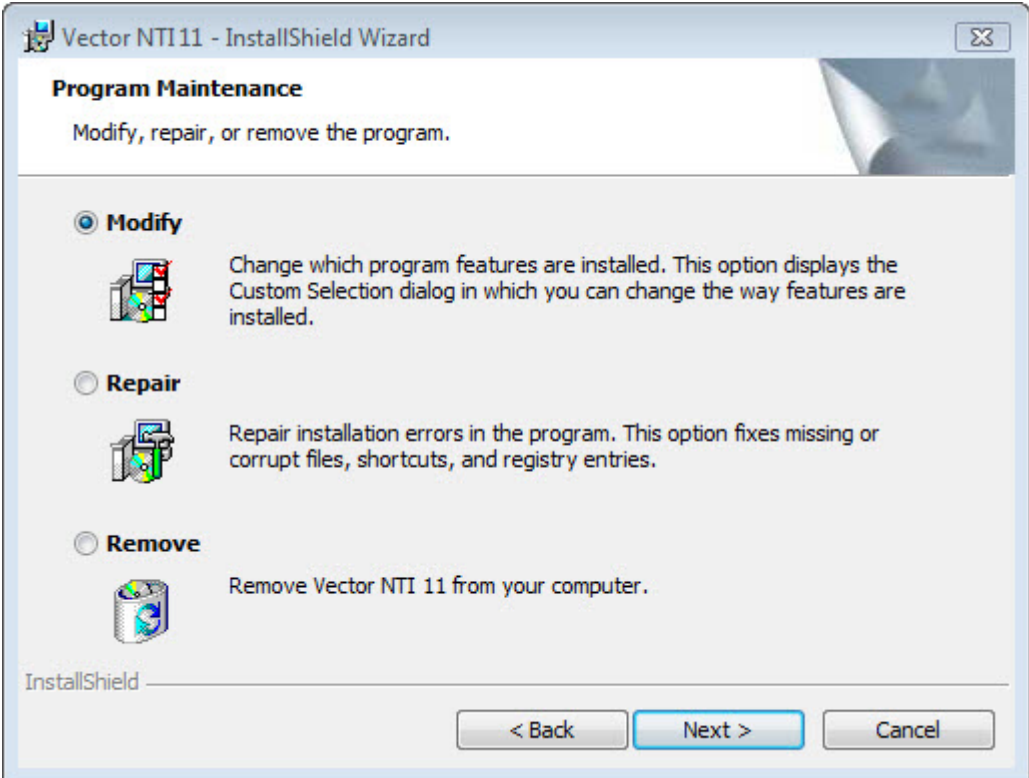
The following Windows Installer commands can be used in performing a command line installation of **Vector NTI Advance 11**:

Type	Command
Installation Commands	<p>msiexec.exe /i <file_name.msi> [/qn /qb] [/l*v <log_filename>] [EXECDIR="<executable_path>"] [INSTALLDIR="<db_path>"] [DLSURL="<dls_path>"] The elements in the above statement, [EXECDIR="<executable_path>"], [INSTALLDIR="<db_path>"] and [DLSURL="<dls_path>"], allow you to specify the directories for the Vector NTI program files, database files and URL to the DLS server (if you are using a dynamic license), respectively. Examples for the three elements are as follows:</p> <ul style="list-style-type: none"> • EXECDIR="C:\Program Files\Invitrogen\Vector NTI Advance 11" • INSTALLDIR="C:\VNTI Database" • DLSURL=http://serverName_or_IPaddress)/scripts/vntidls.cgi <p>/i – install /qn - fully silent installation /qb - basic UI mode (progress dialog + errors dialog) /l*v - generate comprehensive log file (may be useful for tracking user installation problems)</p>
Uninstall Commands	<p>msiexec.exe /x <file_name.msi> [/qn /qb] [/l*v <log_filename>] /X – Remove</p>

Type	Command
Version Updating	<p>msiexec.exe /i <file_name.msi> [/qn /qb] [/l*v <log_filename>] REINSTALL=ALL REINSTALLMODE=vomus</p> <p>/i - running this again will overwrite the current VNTI 11 installation</p>
Additional Commands	<ul style="list-style-type: none"> • IWANTDEINSTALL = "Yes" – forces deinstallation of the previous VNTI version • DBUPGRADE = "Upgrade" – upgrades previous database, rather than creating new database • MIGRATIONDIR = "<target folder>" – specifies the folder that is automatically inserted as the target folder in migration • LICENCE = "<license number>" – allows you to specify the license number, initializing the license scheme during installation • INCLUDEWC = "Yes" – forces deployment of Web Connectivity tools. (By default, these tools are not copied to the user's computer.) • ORDER = "None" or "Web" or "B2B" – select primer ordering mechanism
NOTE	<p>In command line installation, the DLSURL is entered automatically in the License Manager of the user currently logged on during installation (usually the system Administrator. All other users of multi-user machines who log in after installation must type the DLSURL manually into the Dynamic License Settings tab of the License Manager and then click the Set dynamic license for all applications button. For this reason, it is for the System Administrator to distribute the DLS URL to all participating users before their first login.</p>

Modifying, Repairing or Removing an Existing Installation

Once **Vector NTI Advance 11** has been installed, you can modify, repair, or remove the existing installation. To modify, repair, or remove an installation, perform the following steps:

Step	Action
1.	<p>Go to Control Panel>Add/Remove programs>Vector NTI Advance 11 and click on Change,</p> <p>Because there is an existing installation, the following screen opens:</p> 
2.	<p>Follow the directions in the Wizard to modify, repair, or remove your Vector NTI Advance 11 installation.</p> <p>Note: The Remove option does not delete the Vector NTI Advance database files from the hard drive. Therefore, if Vector NTI has been uninstalled using the Remove option and the Database files have not been manually deleted, you can run the VNTI installer and direct it to those Database files to restore the program.</p>

Updating an Existing Installation

Once **Vector NTI Advance 11** has been installed you can:

- Update a single user installation by running the update installer while logged on as the user, in the case of a single installation.
- Update a Primary Installation while logged on as the Administrator, in the case of multiple installations on the same machine.

Note: At the time of this writing, there are no bug fix updates available for **Vector NTI Advance 11**.

To update the installation(s), perform the following steps:

Step	Action
1.	Download the most recent Vector NTI Advance 11 bug fix update installer executable to your hard drive from the Invitrogen web site as described in the New Installation section above (see page 5).
2.	Locate the installer executable on your hard drive and double click on it (while logged on as Admin, for multi-user machines).
3.	Step through the remaining screens to complete the update.

Licensing Vector NTI Advance Applications

Once you have installed **Vector NTI Advance 11**, you will need to license the application to be able to use it.

Introduction

To satisfy the needs of users in different industrial, scientific or educational environments, Invitrogen has designed three types of **Vector NTI Advance** licenses, as well as a Demo Mode option. These are all administered through the License Manager.

- **Static License:** Purchased by one user for installation on one computer.
- **Corporate Static License:** Static license that is used throughout a corporate organization.
- **Term License:** Introduced with version 11, the 1-Year and 3-Year license is a special type of the Static License except that it expires at the end of 1-year or 3-year of the purchase date.
- **Dynamic License (DLS):** A license that is installed on a server and issued by that server to client **Vector NTI Advance** computers. DLS licenses are shared by a specified number of users or "seats," with the number of users at any one time being limited to the number of "licenses" specified in the contract.
- **Trial License:** Allotted to a potential purchaser of **Vector NTI Advance** software for a specified number of days, during which the user can review and use the software within certain limits.
- **Demo Mode:** When unlicensed, **Vector NTI Advance** applications operate in Demo Mode for the purpose of demonstrating the basic features of the software. Some functionality is disabled in Demo Mode.

Note: To License **Vector NTI Advance 11**, you need a new License Number. If you have no connection to the internet, you need also a new Registration Key.

- The License Number is provided in the letter accompanying your CD ROM and/or manual.
- The Registration Key is provided by Invitrogen based on your License number and Hardware ID

Note: License Manager does not open automatically once **Vector NTI Advance** has been installed on your system. You must launch it manually. To do so, choose Start > Programs > Invitrogen > **Vector NTI Advance 11** > License Manager or click Help > License in any **Vector NTI Advance** application, or from QuickStart Page by clicking on License Manager under Licensing and Support.

License Manager Dialog Box

License Manager consolidates the administration of static (including corporate static licenses), trial and dynamic licenses into one window. In this window, there is a tab for each of the three license types.

Contact Us Tab

This tab, opened by default, summarizes your **Vector NTI Advance** software licensing agreement. Additionally, it provides information for upgrading your **Vector NTI Advance** application license and for contacting Invitrogen.

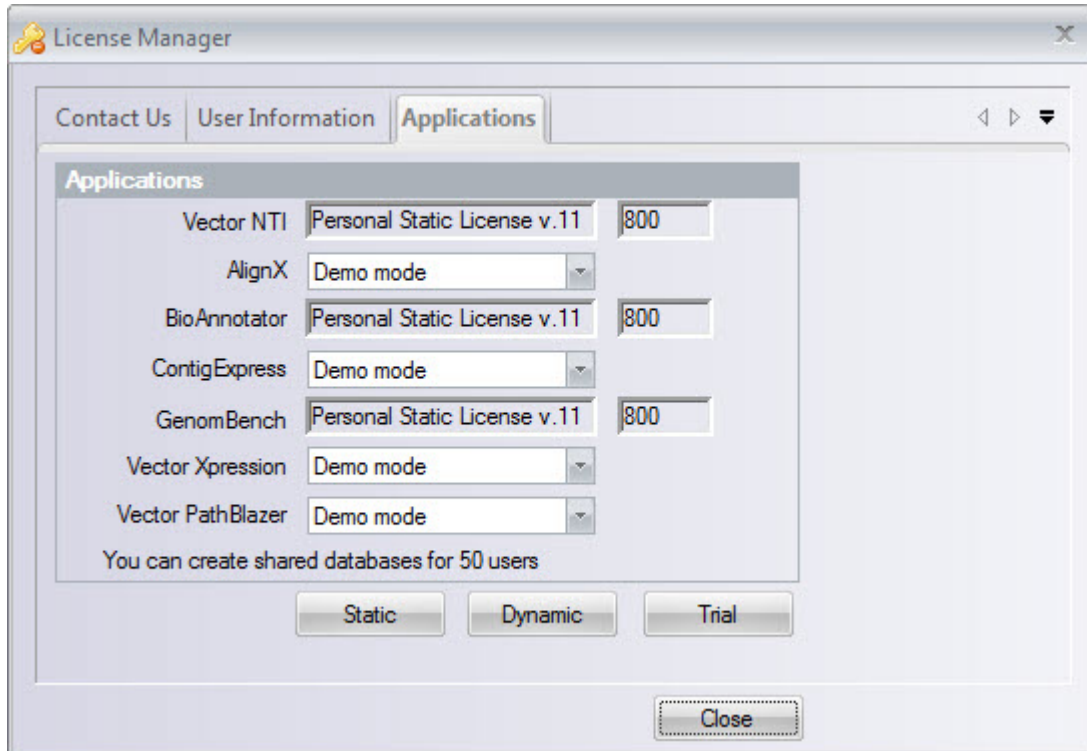
User Information Tab:

Enter your personal information on this tab. Once entered on this tab, when you click

your license choice on the **Applications** tab, your entries are automatically entered on the license application.

Applications Tab:

This tab summarizes the type of license currently in effect for each **Vector NTI Advance** application, as well as for Vector Xpression and Vector PathBlazer which are not included in the version 11 package. If you have **Vector NTI Advance** software with a current license, the contract number displays in a cell to the right of the corresponding application. For applications for which there is no current license, a drop-down menu displays in the cell to the right of the corresponding application.



Important : If you have any module or application running before you set a new license, you need to close and restart that application to apply new license to it.

Initiating Vector NTI Advance 11 Licensing

For a new installation or update of a previously unlicensed installation, License Manager opens in **Demo** mode for all applications.

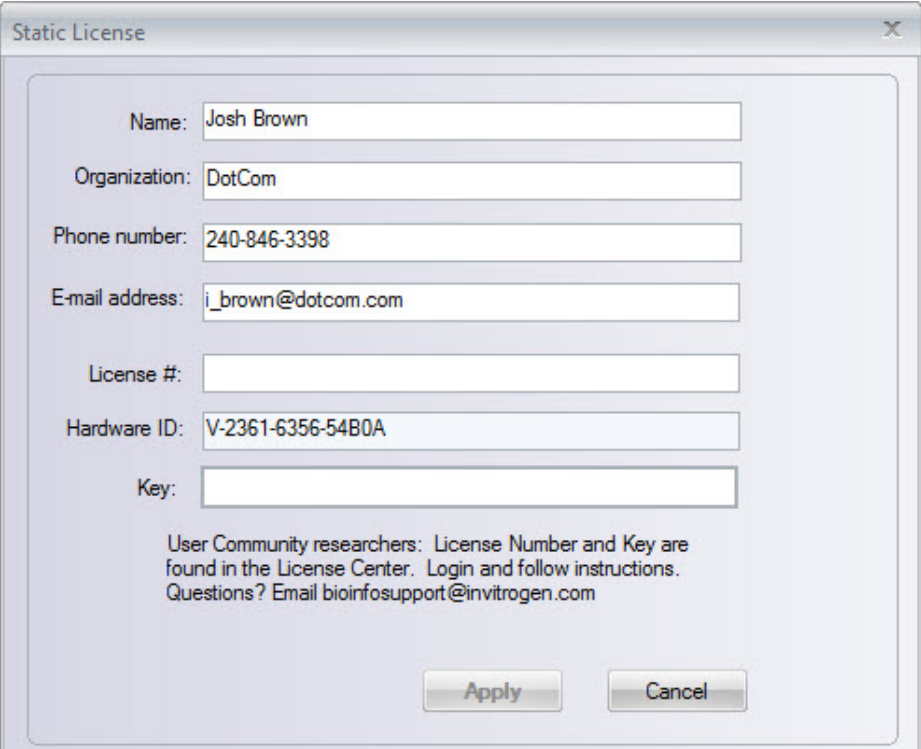
For Static, Dynamic, and Trial licenses, if you are not licensing the entire software package using the same type of license, click in the license-type box of the application for which you wish to specify a license. Click the down-arrow to extend the drop-down menu and select the appropriate license type. (Demo mode is the default selection.)

Note: If your active license type varies for different applications, this dialog box may have a combination of rows with drop-down menus and rows displaying contract numbers (see figure at the previous page).

Click the button at the bottom of the tab for the license type you want to register. Each option is described in the following sections.

Static License

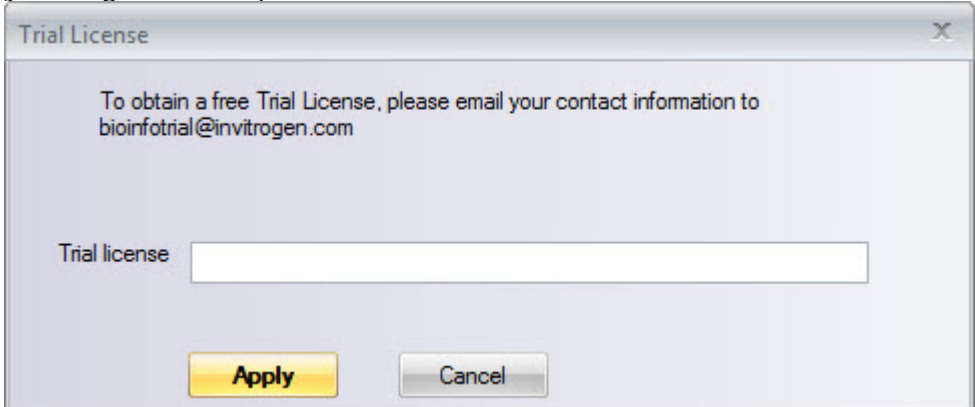
To register a Static License for **Vector NTI Advance 11**, follow these steps:

Step	Action
1.	In License Manager, at the bottom of the Applications tab, click the Static button.
2.	<p>Static licenses can be obtained in either a personal or a corporate mode. For either type of static license, enter your name, organization, phone number and email address in the appropriate fields. This sets the user information in Vector NTI Advance 11.</p> <p>Note If you entered your personal information on the Personal tab, it should appear automatically when you open this dialog box.</p> 

3.	<p>In the License # field, enter the Vector NTI Advance 11 static license number provided in the email you received from Invitrogen. The hardware ID is pre-loaded in its text box.</p> <ul style="list-style-type: none"> • Personal Static License: You must have an internet connection for this step. Click the Apply button. The registration Key is returned by the TCP/IP protocol right after you press the Apply button, and it will be applied automatically. <p>If the registration fails because of a missing connection to the Invitrogen licensing server, an appropriate message immediately displays. In such a case, you can contact Invitrogen Technical Support, and provide them your computer's hardware ID and your license number.</p> <p>Once you receive the registration key, enter the key in the Key text box of the Static License dialog box and click Apply. If the Key matches your license number and computer hardware ID, the license is registered.</p> <ul style="list-style-type: none"> • Corporate Static License: No internet connection is needed nor is a Registration Key required. The License Manager on your client computer validates the Corporate License number; if it is valid, then your software is registered.
4.	<p>Unregister a Static License: If you decide to remove the software from a computer, you must unregister the license BEFORE the software is uninstalled. To do so, type "unregister" in License# field, and press the Apply button. An internet connection is required.</p>
5.	Close License Manager.
Note	Once you have applied your static license, notice the Applications tab reflects your static license status.

Trial License

To configure a Trial License for **Vector NTI Advance 11**, follow these steps:

Step	Action
1.	In License Manager, at the bottom of the Applications tab, click the Trial button. This opens the Trial License dialog box.
2.	<p>As described in the dialog box, you must generate an e-mail addressed to bioinfotrial@invitrogen.com and include your name, the name of your organization, phone number, and email address.</p> 

Dynamic License from a DLS Server

Technically, a Dynamic License is not a “license” mode, but registers permission to work in a shared DLS environment in license mode.

To configure a Dynamic License for **Vector NTI Advance 11**, see the Installation and Licensing Guide for Vector DLS 3.0 available on the support page of the Invitrogen web site.

Transferring Vector NTI Advance to a New Computer or New Operating System

License and Hardware ID

Hardware IDs and registered license numbers are closely linked in Vector NTI. Changes to the operating system will result in the change of Hardware ID, and consequently revoke the existing license. A hardware ID is unique to a computer.

If the software is to be moved to a different computer, you must unregister the license BEFORE the software is uninstalled from the current computer. To do so, type “**unregister**” in License# field, and press the **Apply** button. An internet connection is required.

On the destination computer, install the software, and apply the existing license.

If the operating system is to be upgraded, perform the unregister step as above BEFORE the upgrade.

Performing Backups

Before converting to a new OS or a new computer, perform the backups described below:

Saving Vector NTI Advance database Molecules

To backup **Vector NTI Advance** database molecules, perform the following steps:

Step	Action
1.	Create a new folder on a network drive or Zip drive, etc. that can be accessed from the new computer or from the old computer after the operating system upgrade is completed.
2.	On the old system, open the VNTI Database Explorer and choose Database > Database Backup... Note: Close all Vector NTI applications (including the main Vector NTI window, for versions 6.0 and higher) except Database Explorer when doing this.
3.	Select the destination for the backup in the folder that you created for the backup. The backup will contain all molecules from the Vector NTI Advance database, including those that were created by the user. Custom settings are NOT saved during database backup, however. To save custom settings, see the next section.

Saving Vector NTI Custom Settings

The following files contain user-customized settings and custom-created tools in Vector NTI. To save them, these files should be copied from the VNTI Suite folder on the old system to the same relative location in the VNTI Suite folder on the new system.

Found on the hard drive in the VNTI Database main folder:

File Name (PC)	Purpose
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Gelprof.ini	Contains customized settings for the gel analysis feature of Vector NTI Advance
Molprof.ini	Contains customized settings for DNA/RNA molecules
Proprof.ini	Contains customized settings for protein molecules

Found on the hard drive in the main **Vector NTI Advance 11** folder, Tools sub-folder:


<i>File Name (PC)</i>	<i>Purpose</i>
Save entire Tools sub-folder	Contains customized settings and html templates for any modified or created tools

Restoring Database and Vector NTI Advance Settings

Restoring the VNTI Database and User Profiles

To restore the **Vector NTI Advance** database and recover **Vector NTI Advance** user profiles, perform the following steps:


Step	Action
1.	After backing up the database(s) and saving other appropriate files, install Vector NTI Advance on the new system or proceed with the OS update on the old system and then re-install Vector NTI Advance .
2.	Register the new Vector NTI Advance installation in License Manager using the new static license number or configure the dynamic license.
3.	Once the software is licensed and in full functional mode, restore the Vector NTI Advance database by choosing Database > Database Restore in Vector NTI Advance Database Explorer. In the Restore Database dialog box, open the VNTI backup folder you created and click OK . This restores the objects from the backup file into the Vector NTI Advance database.
Note	Close all Vector NTI applications except Vector NTI Advance database Explorer when you are doing Vector NTI Advance Database Restore.
4.	To restore custom Vector NTI Advance settings, copy the files that hold the custom VNTI settings (see above) into the appropriate folders in the new Vector NTI Advance installation.

WARNING: 	Database Restore OVERWRITES the existing database with the backup database.
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Opening Vector NTI Advance Applications

How to open Vector NTI Advance NTI Applications

Open any of the **Vector NTI Advance** applications by selecting **Start > Programs > Invitrogen > Vector NTI Advance 11 > <application>** or from the **QuickStart Page**

<p>IMPORTANT:</p> 	<p>An active Static License is signaled by a green checkmark in the lower right corner of the application window. An active Trial or Dynamic License is signaled by a green, <i>blinking</i> checkmark. If you see a red (<i>blinking</i>) X in the lower right corner of the application window, the application is not licensed and is running in Demo mode (see the <i>Licensing</i> section of this document, page 13).</p>
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Note: You can configure the software to open the **Molecule Viewer** and **Vector NTI Explorer** when you select **Vector NTI Advance 11** from the **Start** menu.

1. In the **Molecule Viewer** window, go to the **Edit** menu and select **Options**.
2. In the **General** tab of the dialog, select the **Open Local Explorer at Startup** checkbox.
3. Click **OK** to make the change.

Appendix A. Contacting Invitrogen Technical Support

Invitrogen's free technical support for Vector NTI software is available exclusively through the web. For more information, check out the Software Support section at <http://www.invitrogen.com/VectorNTI>.

To obtain personalized technical support by telephone or email, you must have an annual support contract. Users may purchase an Advanced Support Contract by contacting Invitrogen at bioinfosales@invitrogen.com

For paid support, use the following contacts:

North America

Phone: 800-955-6288 x 67990

E-mail: bioinfosupport@invitrogen.com

Europe, Middle East, Africa, Asian Pacific

Phone: +44 781 696 2707

Email: bioinfosupport@invitrogen.com

Appendix B. Reinstallation Policy

Effective December 15, 2008, depending on the status of the Advanced Support Contract you may or may not have with us, the service coverage is different.

1. If you have a current Advanced Support contract with Invitrogen, this service is free of charge.
2. For versions 10 and 11, if you do not have current Advanced Support contract, Invitrogen grants a one-time only service for the number of computers registered per your original purchase order. For example, if you purchased license(s) for 10 computers, you receive one-time free reinstallation for up to 10 computers. After that, no more free reinstallations will be granted.
3. For versions 9 and older, regardless of the type of licensing (i.e., Static, Dynamic, Network), we **do not** provide this free service. As a standard industry practice, we are only supporting current version and previous one version.

Note: you may unregister a license by yourself using License Manager (see page 18). There is no limitation on the number of unregistrations.

To request Reinstallation Service, please visit our website and submit out this [Reinstallation Request Form](#). A valid license number and hardware ID is required.

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ANY SYSTEMS, RECORDS OR DATA, (III) DIRECT DAMAGES FOR BREACH OF WARRANTY (IN RESPECT OF WHICH ANY LIABILITY SHALL BE LIMITED TO RE-PERFORMANCE OR REFUND AS SPECIFIED IN SECTION 11), AND/OR (IV) INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, PUNITIVE, RELIANCE, OR COVER DAMAGES (INCLUDING WITHOUT LIMITATION FOR LOST PROFITS, LOST SAVINGS AND DAMAGE TO ANY DATA OR SYSTEMS); EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES AND EVEN IF A LIMITED REMEDY SET FORTH HEREIN FAILS OF ITS ESSENTIAL PURPOSE. YOU ARE SOLELY RESPONSIBLE AND LIABLE FOR VERIFYING THE ACCURACY AND ADEQUACY OF ANY OUTPUT FROM THE SOFTWARE, AND FOR ANY RELIANCE THEREON.

THE FEES FOR THE SOFTWARE AND SUPPORT, THE REMEDIES SET FORTH IN THIS AGREEMENT, THE LIMITS ON LIABILITY SET FORTH IN SECTIONS 15 AND 16 AND THE OTHER PROVISIONS IN THIS AGREEMENT REFLECT THE ALLOCATION OF RISKS BETWEEN THE PARTIES. THIS SECTION IS AN ESSENTIAL ELEMENT OF THE BASIS OF THE BARGAIN BETWEEN THE PARTIES.

17. VERIFICATION. Licensor shall have the right to have on-site audits periodically conducted of your use of the Software. These audits are for license verification purposes only, will generally be conducted during regular business hours, and Licensor will use its reasonable efforts not to interfere unduly with your regular business activities. Licensor may also require you to accurately complete a self-audit questionnaire in a form Licensor may have provided. If an audit reveals unauthorized use, you must promptly purchase sufficient licenses and Authorized Scope to permit all usage disclosed. If material unlicensed use is found (*i.e.*, license shortage of 5% or more), you also shall reimburse Licensor for all costs incurred in connection with the verification, including without limitation reasonable attorneys' fees.

18. LEGAL COMPLIANCE; RESTRICTED RIGHTS. The Software is provided solely for internal research and solely for lawful purposes and use. You shall be solely responsible for, and agree to comply with, all applicable laws, statutes, ordinances, and other governmental authority, however designated. Without limiting the foregoing, this SPLA is expressly made subject to any United States government laws, regulations, orders or other restrictions regarding export from the United States and re-export from other jurisdictions of equipment, computer hardware, software, technical data and information or derivatives of such equipment, hardware, software or technical data and information. You agree to comply with all applicable export and re-export control laws and regulations in regard to products (including computer hardware, software, deliverables, technical data, source code, or any other technology, equipment, and/or derivatives of such hardware, software, deliverables, technical data, source code, equipment, or any other technology) received from Licensor. You further certify that you will not, directly or indirectly, without obtaining prior authorization from the competent government authorities as required by those laws and regulations: (1) sell, export, re-export, transfer, divert, or disclose technical data or dispose of any product or technology received from Licensor to any prohibited person, entity, or destination; or (2) use the product or technology for any use prohibited by the laws or regulations of the United States. You will reasonably cooperate with Licensor and will provide to Licensor promptly upon request any certificates or documents as are reasonably requested to obtain approvals, consents, licenses and/or permits required for any payment or any export or import of products or services under this SPLA, at Licensor's expense. Your breach of this provision shall constitute cause for immediate termination of this SPLA. You agree to indemnify and hold harmless Licensor, its affiliates, and their respective officers, directors, employees and agents for your noncompliance with this Section. Products acquired for use within or for any United States federal agency are provided with "LIMITED RIGHTS" and "RESTRICTED RIGHTS" as defined in DFARS 252.227-7013 and FAR 52.227-19.

19. GOVERNING LAW; SEVERABILITY. This SPLA shall be governed in all respects by the laws of the State of California, USA, without regard to its conflicts of law rules or

principles. Any dispute arising out of or related to this SPLA shall be resolved only in the state or federal courts having subject matter jurisdiction in California. This Agreement shall not be governed by the United Nations Convention on Contracts for the International Sale of Goods. Each party hereby consents to the exclusive jurisdiction and venue of such courts. If any provision of this SPLA is held to be illegal or unenforceable for any reason, then such provision shall be deemed to be restated so as to be enforceable to the maximum extent permissible under law; the remainder of this SPLA shall remain in full force and effect.

20. SOFTWARE MAINTENANCE AND SUPPORT. Licensor offers certain software maintenance and technical support service programs documented in Licensor's then-current Support policies ("**Support**"). Subscription to Support shall be governed by this SPLA and by the terms and conditions set forth in such policies. Licensor shall have no obligation to provide Support if (a) the Software is not used in accordance with the Documentation or Authorized Scope; (b) the Software was modified by you; (c) you have not implemented all upgrades that would otherwise correct the problem; or (d) the problem is caused by your misuse, negligence or other cause within your control. Licensor may change its Support policies and prices at any time. Licensor reserves the right to discontinue Support services for any Software where Licensor generally discontinues such services to all Licensees of such Software, in which case such discontinuation shall not automatically terminate this SPLA and the License. If you terminate Support and then re-enroll, Licensor may charge you a reinstatement fee.

GENERAL. This SPLA, including any Orders, Support policies, and associated Licensor invoices (all of which are incorporated herein), are collectively the parties' complete agreement regarding its subject matter, superseding any prior oral or written communications, representations or agreements. In the event that any prior oral or written communication is in direct conflict with the terms of this SPLA, this SPLA shall control. You understand and agree that, to the extent Licensor permits you to use a non-Licensor purchase order or other form to order Software and/or Support, Licensor does so solely for your convenience. Any terms in any such forms that purport to vary or are in addition to or inconsistent with any terms in this SPLA or in the applicable Order shall be deemed to be void and of no effect. Amendments or changes to this SPLA must be in mutually executed writings to be effective. Sections 1, 4, 5, and 8 through 21, inclusive, shall survive the termination or expiration of this SPLA. The parties are independent contractors for all purposes under this SPLA. Neither party shall be liable for any delay or failure due to force majeure and other causes beyond its reasonable control; provided that the foregoing shall not apply to any of your payment obligations. Any notices under this SPLA to Licensor must be personally delivered or sent by certified or registered mail, return receipt requested, or by nationally recognized overnight express courier, to the address specified herein or such other address as Licensor may specify in writing. Such notices will be effective upon receipt, which may be shown by confirmation of delivery. All such notices shall be sent to the attention of General Counsel of Invitrogen Corporation (unless otherwise specified by Licensor). You may not assign or otherwise transfer this SPLA or any License without Licensor's prior written consent. This SPLA shall be binding upon and inure to the benefit of the parties' successors and permitted assigns. You agree, at Licensor's request and reasonable expense, to provide reasonable assistance and cooperation to Licensor and its designees, and to give testimony and execute documents and to take such further acts reasonably requested by the other to acquire, transfer, maintain, perfect, and enforce Licensor's intellectual property rights as described in this SPLA. To the extent you fail to do so, you appoint Licensor's or its affiliates' officers as your attorney in fact to execute documents on your (and your personnel's), successors' and assigns' behalf for this limited purpose.