

Autodesk® Topobase™ 2011

Autodesk® Topobase™ 2011 Installation and Configuration Guide

Autodesk®

© 2010 Autodesk, Inc. All Rights Reserved. Except as otherwise permitted by Autodesk, Inc., this publication, or parts thereof, may not be reproduced in any form, by any method, for any purpose.

Certain materials included in this publication are reprinted with the permission of the copyright holder.

Trademarks

The following are registered trademarks or trademarks of Autodesk, Inc., and/or its subsidiaries and/or affiliates in the USA and other countries: 3DEC (design/logo), 3December, 3December.com, 3ds Max, Algor, Alias, Alias (swirl design/logo), AliasStudio, AliasWavefront (design/logo), ATC, AUGI, AutoCAD, AutoCAD Learning Assistance, AutoCAD LT, AutoCAD Simulator, AutoCAD SQL Extension, AutoCAD SQL Interface, Autodesk, Autodesk Envision, Autodesk Intent, Autodesk Inventor, Autodesk Map, Autodesk MapGuide, Autodesk Streamline, AutoLISP, AutoSnap, AutoSketch, AutoTrack, Backburner, Backdraft, Built with ObjectARX (logo), Burn, Buzzsaw, CAiCE, Civil 3D, Cleaner, Cleaner Central, ClearScale, Colour Warper, Combustion, Communication Specification, Constructware, Content Explorer, Dancing Baby (image), DesignCenter, Design Doctor, Designer's Toolkit, DesignKids, DesignProf, DesignServer, DesignStudio, Design Web Format, Discreet, DWF, DWG, DWG (logo), DWG Extreme, DWG TrueConvert, DWG TrueView, DXF, Ecotect, Exposure, Extending the Design Team, Face Robot, FBX, Fempro, Fire, Flame, Flare, Flint, FMDesktop, Freewheel, GDX Driver, Green Building Studio, Heads-up Design, Heidi, HumanIK, IDEA Server, i-drop, ImageModeler, iMOUT, Incinerator, Inferno, Inventor, Inventor LT, Kaydara, Kaydara (design/logo), Kynapse, Kynogon, LandXplorer, Lustre, MatchMover, Maya, Mechanical Desktop, Moldflow, Moonbox, MotionBuilder, Movimento, MPA, MPA (design/logo), Moldflow Plastics Advisers, MPI, Moldflow Plastics Insight, MPX, MPX (design/logo), Moldflow Plastics Xpert, Mudbox, Multi-Master Editing, Navisworks, ObjectARX, ObjectDBX, Open Reality, Opticore, Opticore Opus, Pipeplus, PolarSnap, PortfolioWall, Powered with Autodesk Technology, Productstream, ProjectPoint, ProMaterials, RasterDWG, RealDWG, Real-time Roto, Recognize, Render Queue, Retimer, Reveal, Revit, Showcase, ShowMotion, SketchBook, Smoke, Softimage, SoftimageXSI (design/logo), Sparks, SteeringWheels, Stitcher, Stone, StudioTools, ToolClip, Topobase, Toxik, TrustedDWG, ViewCube, Visual, Visual LISP, Volo, Vtour, Wire, Wiretap, WiretapCentral, XSI, and XSI (design/logo).

All other brand names, product names or trademarks belong to their respective holders.

Disclaimer

THIS PUBLICATION AND THE INFORMATION CONTAINED HEREIN IS MADE AVAILABLE BY AUTODESK, INC. "AS IS." AUTODESK, INC. DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE REGARDING THESE MATERIALS.

Published by:
Autodesk, Inc.
111 McInnis Parkway
San Rafael, CA 94903, USA

Contents

Chapter 1	Installing Autodesk Topobase	1
	Autodesk Topobase Components and Licensing	1
	System Requirements	2
	Oracle Requirements	6
	The Autodesk Topobase 2011 Installation Wizard	7
	Installing Topobase	7
	Topobase Installation Folders	8
	Installing The Network License Server	9
	Topobase License Borrowing	11
	Setting up the Database	11
	Starting Topobase	11
	Installing Topobase Web	11
	Completing the Topobase Web Installation	13
	Topobase Web Installation Folders	14
	Starting Topobase Web	14
	Moving to Autodesk Topobase 2011 from a Previous or Concurrent Release	14
Chapter 2	Network Administration and Deployment	17
	Preparing a Deployment	17
	System Requirements for Administrative Image	17
	Choose an Installation Type	18
	Choose a License Server Model	19

Create a Network Share	20
Network Tools and Your License Server	21
Setting Up and Creating a Deployment	21
Prepare for a Network Deployment	21
Configure Individual Products	23
Your Deployment Choices	24
Enter User and Product Information	24
Creating Log Files	24
What Is Silent Mode?	25
Select a License Type (Optional)	25
Select the Installation Type (Optional)	27
Select Installation Folders for Support Content	28
Define Search Paths and File Locations (Optional)	30
Install Additional Files (Optional)	31
Specify User Preferences (Optional)	32
Include Service Packs (Optional)	33
Configure InfoCenter Communication Center (Optional)	34
Allow Users to Access Online Resources (Optional)	36
Create a Default Deployment	38
Create a Custom Deployment	40
Modify a Deployment (Optional)	44
Point Users to the Administrative Image	45
Chapter 3 Installation Troubleshooting	47
General Installation Issues	47
How can I check my graphics card driver to see if it needs to be updated?	47
What is the text editor used for?	48
What is the advantage to installing the Materials Library?	48
Can I migrate my custom settings?	48
Where are my product manuals?	49
Can I print Crystal Reports?	49
What is SAMreport-Lite?	49
Licensing Issues	49
What is the benefit to using a network licensed version of the software?	50
What is Internet Explorer used for?	50
Do I need to turn off my pop-up blocker to run Topobase Web?	50
Networking Issues	50
Where do I find my server name?	50
If I choose to create a log file, what kind of information does the log file contain?	51
When specifying user workstation settings, I am given the option to specify a profile. What are profiles?	51

Can I create custom desktop shortcuts?	51
What happens when I choose to append or merge service packs?	52
What is an administrative image (MSI) file?	52
Uninstall and Maintenance Issues	52
When adding or removing features, how can I tell what features get installed by default?	52
Is it possible to change the installation folder when adding or removing features?	53
When should I reinstall the product instead of a repair?	54
Do I need my original disk to reinstall my software?	54
When I uninstall my software, what files are left on my system?	54
Index	55

Installing Autodesk Topobase

1

This section provides instructions for installing Autodesk Topobase 2011 Client, Administrator, and Web components.

Autodesk Topobase Components and Licensing

Autodesk Topobase 2011 includes the Client, Administrator, and Web components. The components can be installed separately. See the sections in this guide for more information.

When you have finished installing Topobase, see [Setting up the Database](#).

It is recommended that you review the system and Oracle requirements before you install Topobase.

Licensing

Autodesk Topobase works with a stand-alone or network license installation.

- For information on using a stand-alone license, see *Stand-alone Licensing* in the AutoCAD Help.
- For information on using the network license, see [Installing The Network License Server](#) (page 9).

With network licensing, you install the program to workstations with the files and registry entries that allow the program to communicate with the Network License Manager. You also define the configuration of the Network License Manager so that the licenses can be accessed. You do not need a separate license for Topobase Administrator or the Topobase modules.

Licensing Topobase Web

- Topobase Web works with an integrated license. Every session connecting to Topobase Web consumes an additional license, even if the sessions come from the same user and host.

System Requirements

Before you install Topobase make sure that your computer meets the minimum system requirements. See the following tables for hardware and software requirements for each Topobase component.

Autodesk Topobase Client and Administrator Hardware and Software Requirements

Hardware/Software	Requirement	Notes
Operating system	Windows [®] XP Professional 32 bit, Service Pack 2 or later Windows [®] XP Professional 64 bit, Service Pack 2 Windows Vista Enterprise, Business, or Ultimate 32 bit, Service Pack 1 or later Windows Vista Enterprise, Business, or Ultimate 64 bit, Service Pack 2 Microsoft Windows 7, Enterprise, Ultimate, Professional 32 bit Microsoft Windows 7, Enterprise, Ultimate, Professional 64 bit	It is recommended that non-English language versions of Autodesk Topobase be installed on an operating system with a user interface language that matches the code page of the Autodesk Topobase language. A code page provides support for character sets used in different languages. Although Topobase core functionality has been tested and verified on Microsoft Windows 7, Oracle Client is not officially supported on Microsoft Windows 7. Since Topobase Client requires Oracle Client to be installed on the same machine, Topobase users of Microsoft Windows 7 should note this fact. .Net Framework 3.0 SP1 is required for Wastewater Import; however, .Net 2.0 SP1 and .Net 3.0 SP1 cannot run on Windows Vista (32 bit and 64bit). To run Wastewater Import on Vista, install Vista SP1 before you install .Net Framework 3.0 SP1.
Web browser	Microsoft Internet Explorer 7.0 or later	You cannot install Autodesk Topobase if Microsoft Internet Explorer 7.0 or

Autodesk Topobase Client and Administrator Hardware and Software Requirements

Hardware/Software	Requirement	Notes
		later is not installed on the installation workstation. You can download Internet Explorer from the Microsoft Web site: http://www.microsoft.com/downloads/
CPU Type	<i>Windows XP:</i> Intel Pentium or AMD Athlon™ Dual Core, 1.6 GHz or Higher with SSE2 technology <i>Windows Vista or Windows 7:</i> Intel Pentium 4 or AMD Athlon™ Dual Core, 3.0 GHz or Higher with SSE2 technology	
Memory	32 bit operating systems: 2 GB 64 bit operating systems: 4 GB	
Graphics card	1280 x 1024 32-bit color (True Color) 128 MB or greater	<ul style="list-style-type: none">■ Requires a Windows-supported display adapter.■ For graphic cards that support Hardware Acceleration, DirectX 9.0c, or better, must be installed.■ Installing from the Installation Wizard does not install DirectX 9.0c, or later. Manual installation of DirectX is required, in this circumstance, for Hardware Acceleration to be configured.
Hard disk	8 GB Free Disk Space	
Pointing device	Mouse, trackball, or other device	
DVD Drive	Any speed (for installation only)	
Optional hardware	Open GL®-compatible 3D video card Printer or plotter Digitizer	

Autodesk Topobase Client and Administrator Hardware and Software Requirements

Hardware/Software	Requirement	Notes
	Modem or access to an Internet connection Network interface card	

The following requirements are for the Topobase Database Server:

Autodesk Topobase Database Server Hardware and Software Requirements

Hardware/Software	Requirement	Notes
Operating system	Any operating system for which Oracle Enterprise Edition 10.2.x or greater and Oracle Spatial are certified.	It is recommended that non-English language versions of Autodesk Topobase be installed on an operating system with a user interface language that matches the code page of the Autodesk Topobase language. A code page provides support for character sets used in different languages.
Database Specifications	Oracle Standard Edition 10.2.x or greater or Oracle 10g or 11g Standard One, Standard, or Enterprise	Oracle Enterprise 11g (11.1.0.7) is required to support jobs and long transactions. Oracle 11g and Spatial are required to support 3D. Oracle is not currently certified on Windows 7.
Processor	<i>Windows XP:</i> Intel Pentium or AMD Athlon™ Dual Core, 1.6 GHz or Higher with SSE2 technology <i>Windows Vista:</i> Intel Pentium 4 or AMD Athlon™ Dual Core, 3.0 GHz or Higher with SSE2 technology	
RAM	2 GB (depending on size of database)	
Hard disk	20 GB free disk space (depending on size of database)	
DVD Drive	Any speed (for installation only)	

The following requirements are for Topobase Web:

Autodesk Topobase Web Hardware and Software Requirements

Hardware/Software	Requirement	Notes
Operating system	Microsoft Windows® Server 2003, R2, 32 bit, Service Pack 1 or later Microsoft Windows® Server 2003, R2, 64 bit, Service Pack 1 or later With Microsoft IIS 6.0 Microsoft Windows® Server 2008, 32 bit, Service Pack 1 or later Microsoft Windows® Server 2008, 64 bit, Service Pack 1 or later With Microsoft IIS 7.0	It is recommended that non-English language versions of Topobase be installed on an operating system with a user interface language that matches the code page of the Topobase language. A code page provides support for character sets used in different languages.
Web browser	Microsoft Internet Explorer 7.0 or later Mozilla Firefox 3.5 Google Chrome 3.0	You cannot install Topobase if Microsoft Internet Explorer is not installed on the installation workstation. You can download Internet Explorer from the Microsoft Web site: http://www.microsoft.com/downloads/ You must enable JavaScript and disable the pop-up window blocker.
Processor	<i>Windows XP:</i> Intel Pentium or AMD Athlon™ Dual Core, 1.6 GHz or Higher with SSE2 technology <i>Windows Vista:</i> Intel Pentium 4 or AMD Athlon™ Dual Core, 3.0 GHz or Higher with SSE2 technology	
RAM	32 bit operating systems: 2 GB 64 bit operating systems: 4 GB	
Hard disk	10 GB Free Disk Space	
Pointing device	Mouse, trackball, or other device	
DVD Drive	Any speed (for installation only)	
Other Software	Microsoft Internet Information Server (IIS)	

Oracle Requirements

An instance of Oracle Spatial 10g or 11g must be installed in conjunction with Topobase.

Requirements for Topobase

For the server:

- Oracle Database 10g Release 2 (latest subversion) Standard Edition, Standard Edition One, or Enterprise Edition.
- Oracle Database 11g Release 1 (11.1.0.6.0) Standard Edition, Standard Edition One, or Enterprise Edition.

NOTE If you want to use Topobase Jobs, you will need to install Oracle Database 10g or 11g (subversion 11.1.0.7.0 or later) Enterprise Edition.

For the client:

- Oracle Database 10g Client Release 2 Administrator (Not Instant or Run-time).
- Oracle Database 11g Client Release 1 Administrator (Not Instant or Run-time).

NOTE If you want to use 3D enabled documents, you will need to install Oracle Database 11g.

During the installation and configuration of Topobase you must connect to the database. Make sure your administrator provides the following settings and passwords:

NOTE The following information is sensitive and should be distributed only to individuals authorized to use Topobase Administrator and Topobase Server Administrator.

- Oracle user with rights on SYS.DBMS_RLS and DBA rights (default "SYS AS SYSDBA"). Default is SYS.
- Oracle system user: Default is SYSTEM.
- Service name: Default is ORCL.

- Spatial system user MDSYS (unlocked: we recommend that you unlock MDSYS through the Topobase Server Administrator after you have installed Topobase Administrator).
- Tablespaces, defaults are: Tablespace: USERS, Temporary tablespace: TEMP, and Index: INDX.

For more information about Oracle refer to Oracle® Spatial User's Guide and Reference.

The Autodesk Topobase 2011 Installation Wizard

The Autodesk Topobase 2011 Installation Wizard contains all installation-related material in one place. From the Installation wizard, you can access user documentation, install the product and supplemental tools, and view support solutions.

NOTE Topobase ships on two DVDs. The first DVD contains the Topobase Client and Topobase Administrator, and the second contains Topobase Web and Topobase Administrator. Insert the appropriate DVD to start the installation process. Follow the prompts to complete the installation. As long as the DVD is in the drive, you can access documentation by clicking the documentation link.

- **Review installation documentation before you install.** You can access system requirements, the *Autodesk Topobase Installation and Configuration Guide*, the **Network Licensing Guide**, and the *Readme.chm* file before you install your product. Click the Documentation link and click a document you want to view.

NOTE To view or print any files with an extension of *.pdf*, Adobe® Acrobat Reader must be installed on your computer. If you do not have Acrobat Reader, you can download the latest version by visiting www.adobe.com.

- **Install Topobase.** From the Installation wizard, click Install Products. Follow the on-screen instructions to complete the installation.

Installing Topobase

To install Topobase Client or Topobase Administrator, follow these instructions:

Topobase Client component setup

- 1 Insert the Autodesk Topobase 2011 DVD into your computer's DVD drive.
- 2 In the Autodesk Topobase 2011 Installation Wizard click Install Products.
- 3 Select which products you want to install.
- 4 Follow the directions on each installation page.

The Topobase Client default installation folder <topobase_client> is C:\Program Files\Autodesk Topobase Client 2011. The Topobase Administrator default installation folder <topobase_administrator> is C:\Program Files\Autodesk Topobase Administrator 2011.

Topobase Installation Folders

During the setup the following folders are copied to your machine:

- <topobase_administrator>\Template\Modules: Demo data sets (Oracle dumps) for Electric CE, Electric NA, Gas, Land, Water, Wastewater, Land Management CH, Land_Job, and Survey.
- <topobase_administrator>\Template\Modules\<name>\Forms: Feature class form definition (*.XML) files. You can import these definitions with Topobase Administrator to restore the default forms if you have modified them with the Form Designer.
- <topobase_administrator>\Template\Modules\<Name>\Report: Topobase reports.
- <topobase_administrator>\Help: Help files, manuals, and Data Model overviews (ERD)
- <topobase_administrator>\Development: Topobase code samples and API documentation.
- <topobase_client>\Template\Modules\<name>\DisplayStyle: Prototype drawing *.DWG, symbol library, display models.
- <topobase_client>\Help: Help files, manuals, and Data Model overviews (ERD)
- <topobase_client>\Development: Topobase code samples and API documentation.

- <default display model repository>: Installed in the roamable root folder, such as C:\Documents And Settings\<user name>\Application Data\Autodesk\Autodesk Topobase Client 2011\R18.1\<language>\Display Model RepositoryModules: Display Models for the demo data sets, and for the extensions Dimensioning, COGO, and Plot.

Installing The Network License Server

To run Topobase you must first install the Network License Server and activate the application.

If you have more than one client you can install the network license server, get the license file, and configure the license server. You do not need to activate each client individually. The clients will get their licenses from the server by specifying the license server at the first launch of the application.

To install Network License Server

- 1 In the installation wizard, click Install Tools and Utilities.
- 2 Select the Network License Manager and Network License Activation Utility and then follow the on-screen instructions.

The default installation folder is C:\Program Files\Autodesk Network License Manager.

To get the license file (activation)

- 1 Click Start menu ► Programs ► Autodesk ► Network License Manager ► Autodesk Topobase Client 2011 Network License Activation Utility.
- 2 Follow the on-screen instructions.

NOTE If you added a Loop-back adapter when you installed Oracle, you need to manually enter the physical address of one of the other network adapters in your computer when activating your license. Using the Lookup function in the Network License Activation window finds the physical address of the loop-back adapter, which results in an invalid Topobase license. You should not use the Lookup function if you have installed a loopback adapter, and instead manually enter another physical address.

- 3 Get the Topobase Client activation code. Make sure you have the serial number. If you plan to install Autodesk Topobase Web 2011, you can also get the activation code for it.

NOTE If you are requesting several license files you get one (*.lic) file for each component. They must be merged into one license file. When you receive your first license file, in the Network License Activation wizard, enter a name for the license, for example Topobase2010.lic. After receiving the next license file, select Begin With Server Host Data From Existing License File(s) and browse to your named license file to add the new license.

Once you have a valid license file, you can configure the license server.

NOTE You can also request the license file by E-mail or fax.

Configure the license server.

- 1 Click Start menu ► Programs ► Autodesk ► Network License Manager ► LMTOOLS.
- 2 On the Config Services tab, create a new service, for example Topobase LM Service.
- 3 Specify the path for the license file and log file. Make sure the file names do not contain any spaces.
- 4 On the Services/License File tab select the option Configuration Using Services.
- 5 On the Start/Stop/Reread tab select the license service and click Start Server.

NOTE If you select the Use Services and Start Server At Power Up on the Config Services tab, the license server will be available automatically after restarting.

For more information refer to the Network Licensing Guide.

If you start the application for the first time, you are prompted to specify the licence server. See also Starting Topobase Client.

You can specify additional license servers in the Configure License Server dialog box after installation (Settings tab ► Setup panel ► Configure License Server). The Configure License Server dialog box displays the computer name of your license server preceded by the @ character. To change your license server, or add a new license server, enter the computer name of the new license

server preceded by the @ character. For example, @MyLicenseServer. You can specify multiple license servers by using a semicolon (;) to separate the computer names. For example, @MyLicenseServer1; @MyLicenseServer2. If you do not know the computer name of your license server, contact your System Administrator.

Topobase License Borrowing

You can borrow a license to run Topobase Client when your computer is not connected to the network until your license-borrowing period ends.

In Topobase Client, click Settings tab ► Setup panel ► Borrow License.

For information about license borrowing refer to the Network Licensing Guide.

Setting up the Database

After the first Topobase installation, you must create the Topobase System User TBSYS. The Topobase Administrator and Topobase Client logins require the credentials for TBSYS. See the Topobase Administrator Guide, section Setting up the Database.

Starting Topobase

See Starting Topobase.

We recommend that you set up some demo data to easier understand how the Topobase application works. See the Topobase Administrator Guide, section Setting up the Demo Data.

Installing Topobase Web

Before you install Autodesk Topobase Web 2011, you must first install the Windows Component Internet Information Services (IIS). Topobase Web requires that the Topobase system user TBSYS is set up, and a workspace has been created. See [Installing Topobase](#) (page 7).

NOTE IIS must be installed before the .NET framework, which is installed by default with Topobase Client. Make sure that you install IIS first, before installing Topobase Client or Topobase Web.

See also:

- Setting up the Database
- Setting up the Demo Data

Topobase Web setup

- 1 Insert the Autodesk Topobase Web 2011 DVD and start setup.htm.
- 2 Install the components in the order of appearance:
 - 1 Autodesk MapGuide Server
 - 2 Topobase Web
 - 3 Autodesk MapGuide StudioYou can install MapGuide Studio on any machine; however, it only works when both the Web Extension Server and MapGuide Server are available.

NOTE It is important that you install the Topobase Web components in the order that they appear. If you install the components in a different order, you may encounter a problem.

The Topobase Web setup package contains the following components: Autodesk MapGuide Server; Autodesk Topobase Web 2011 (with MapGuide Web Extension API) and Autodesk MapGuide Studio.

Autodesk MapGuide Enterprise 2010 Server

- 1 In the Media Browser click the System Requirements (PDF) links to read the MapGuide Installation Guide.
- 2 In the Media Browser click Autodesk MapGuide Enterprise 2010 - Server.
- 3 Follow the on-screen instructions.

Autodesk Topobase Web 2011 Web Extensions

- 1 In the Media Browser click Autodesk Topobase Web 2011 - Web Extensions.
- 2 Follow the on-screen instructions.
- 3 Select Typical installation.

NOTE MapGuide Studio is needed to configure Web layouts and to manage the resources on the MapGuide Server. It is also included on the Topobase Web DVD. MapGuide Studio needs not to be installed on the same computer as Topobase Web.

Autodesk MapGuide Studio 2010

- 1 In the Media Browser click Autodesk MapGuide Studio 2010.
- 2 Follow the on-screen instructions.

The Topobase Web installation folder <topobase_web> is <mapguide_enterprise>\WebServerExtensions\www\TBWeb.

Completing the Topobase Web Installation

The setup adds the ASPNET user NETWORK SERVICE with read/write access to the folder <topobase_web>\config. We recommend that you verify this.

To verify the ASPNET user with read/write access

- 1 Select the <topobase_web>\config folder in the Windows explorer.

```
C:\Program Files\Autodesk\MapGuideEnterprise2010\
WebServerExtensions\www\TBWeb\config
```
- 2 Right-click the folder and click Properties.
- 3 Click the Security tab.
If you cannot see this tab, in the Windows explorer click Tools menu > Folder Options... Click the View tab. In Advanced Settings scroll down and make sure that the option Use Simple File Sharing (Recommended) is disabled. Repeat step 2 + 3.
- 4 In the Security tab, click the Add button.
- 5 Enter ASPNET and click Check Names. If a Name Not Found window pops up, verify the Locations... Make sure that you select your local machine name and click OK. Now the system recognizes the ASPNET user.
- 6 Select the ASPNET user. In the Allow column, select the Read and Write check boxes.

Now save the Topobase Main User login settings to the SYSTEM.config file.

NOTE An update of the Topobase system user will be necessary after each following Topobase update. See also To update TBSYS.

Topobase Web Installation Folders

During the setup the following folders are copied to your machine.

Some Topobase web folders

- <topobase_web>\Config: configuration settings
- <topobase_web>\Help\Manuals: Topobase user and installation guides (PDF).
- <topobase_web>\TBSys: Batch files and Topobase.jar file for TBSYS installation. Do not run these files manually. Use the Topobase Server Administrator to install and update TBSYS.
- <topobase_web>\Help
- <topobase_web>\Modules\<name>\MapGuide Package

Starting Topobase Web

Before launching Topobase Web your Topobase Administrator has to provide a web layout. See Setting Up Topobase Web.

Open the browser and launch Topobase Web either with the Desktop shortcut icon or with the appropriate URL. See To start Topobase Web.

Moving to Autodesk Topobase 2011 from a Previous or Concurrent Release

If you have a previous version of Topobase installed on your system, you can install Autodesk Topobase and keep other versions of the program on the same system. This is called side-by-side installation. If you've purchased an upgrade version of Topobase, you are required to uninstall the previous version within 120 days of installing Topobase 2010. See your license agreement for more information.

When you install a new version of Topobase, it is critical that you update your Topobase System User. See Setting up the Database for more information.

You will need to create and maintain separate instances of your Oracle database for side-by-side installations of Topobase 2010 with other versions of Topobase, because each installation of Topobase requires its own Topobase Main User (TBMAIN).

NOTE AutoCAD includes a tool for migrating custom settings. This tool is not supported in Topobase 2010.

Topobase supports side-by-side installations of the following products:

- AutoCAD Map 3D 2009
- AutoCAD Map 3D 2010
- Autodesk Topobase 2008
- Autodesk Topobase 2009
- AutoCAD Civil 3D 2009
- AutoCAD Civil 2010
- AutoCAD 2009
- AutoCAD 2010
- Autodesk Utility Design 2009

Network Administration and Deployment

2

Network administration and deployment requires careful planning and execution. This section gives you information about how to prepare for deployment, set up and customize a deployment, and distribute the program.

Preparing a Deployment

To prepare for a deployment, you should take the time to review the following requirements and options.

System Requirements for Administrative Image

This section contains the system requirements for the location of the administrative image.

Before you begin installing the program on a network, make sure that your servers and client workstations meet the minimum recommended hardware and software requirements for a deployment. For complete system requirements, see *System Requirements*.

Before you begin installing the program on a network, make sure that your servers and client workstations meet the minimum recommended hardware and software requirements for a deployment. For complete system requirements, see the System Requirements topic in the Installation guide available from the Documentation page on the installer.

The program will automatically detect if the Windows operating system is the 32- or 64-bit version when installing Autodesk Topobase. The appropriate version

of Autodesk Topobase will be installed. The 32-bit version of Autodesk Topobase cannot be installed on a 64-bit version of Windows vice-versa.

See the following tables for administrative image system requirements.

Hardware Requirements - Administrative Image Location

Hard disk	Autodesk Inventor only: 4.5 GB or above (recommended) Autodesk Inventor, Material Library 2011 Base Image Library, AutoCAD Mechanical, Autodesk Vault, and Design Review: 8.5GB (recommended)	The location where you create the administrative image must be a shared location so that users can access the administrative image.
------------------	--	---

Hardware and Software Requirements - Administrative Image Location

Hard disk	2 GB or above (recommended)	The location where you create the administrative image must be a shared location so that users can access the administrative image.
------------------	-----------------------------	---

Choose an Installation Type

When you set up your deployment, you need to choose the type of installation to deploy. In the Autodesk Topobase Deployment wizard, you specify one of the following installation types:

Stand-Alone installation (Stand-Alone option) Choose this type of installation for stand-alone installations where a single serial number and product key are used for a single seat. Like a multi-seat stand-alone installation, you do not use the Network License Manager to manage product licensing, but installation, registration, and activation occurs on each workstation.

Multi-Seat Stand-Alone installation (Stand-Alone option) Choose this type of installation for stand-alone installations where a single serial number and product key are used for multiple seats. Multi-seat stand-alone installations do not rely upon the Network License Manager to manage product licenses; however, you can still use the Autodesk Topobase Deployment wizard to create administrative images and deployments. Registration and activation is more automated for multi-seat stand-alone installations. After the first activation using the multi-seat stand-alone serial number and product key, activation

occurs automatically for all workstations based on this deployment, as long as your systems are connected to the Internet.

Network License installation With this type of installation, you install the program to workstations with the files and registry entries that allow the program to communicate with the Network License Manager. You also define the configuration of the Network License Manager so that the licenses can be accessed. Workstations running the program based on a network installation do not require individual activation. Licensing of this program is managed by at least one license server.

The main advantage is that you can install Autodesk Topobase on more systems than the number of licenses you have purchased (for example, purchasing 25 licenses but installing on 40 workstations). At any one time, Autodesk Topobase runs on the maximum number of systems for which you have licenses. This means you get a true floating license.

Choose a License Server Model

If you chose the Network License option, you need to decide which license server model to use to distribute the product licenses.

TIP If you are deploying a stand-alone or multi-seat stand-alone installation type, you do not use a license server model.

For the network installation, use one of the following license server models:

- **Single license server model.** The Network License Manager is installed on a single server, so license management and activity is restricted to this server. A single license file represents the total number of licenses available on the server.
- **Distributed license server model.** Licenses are distributed across more than one server. A unique license file is required for each server. To create a distributed license server, you must run the Network License Manager on each server that is part of the distributed server pool.
- **Redundant license server model.** You use three servers to authenticate a single license file. One server acts as the master, while the other two provide backup if the master server fails. With this configuration, licenses continue to be monitored and issued as long as at least two servers are still functional. The license file on all three servers is the same. You must install the Network License Manager on each server.

Each of these license server models is described in detail in the *Autodesk Licensing* guide. It is strongly recommended that you also read that guide before you deploy the program. You can find *Autodesk Licensing* guide by clicking the *Read the Documentation* selection, the *Documentation* link at the lower-left corner of the deployment wizard, or in the Help system.

Create a Network Share

Once you have fully prepared for creating a deployment, you are ready to set up and distribute Autodesk Topobase by creating a network share location (folder). A network share is an installation folder that you make available to users' computers on a network. You point users to this location to install the program.

A network, shared folder is required for network license and multi-seat stand-alone methods of installation. Any subfolders that are placed inside a network shared folder are automatically shared.

NOTE You must have Full Control permissions set for your shared folder when you are creating your deployment images. Read permissions are necessary to access the network share and administrative permissions on the workstation where the program is deployed.

To create a network share folder

- 1 On your network server's desktop, create a folder named *Deployments*.
- 2 Right-click the *Deployments* folder and click Share and Security (or Sharing).
- 3 In the *<folder name>* Properties dialog box, Sharing tab, select Share This Folder.
- 4 Specify a Share Name, such as *Deployments*, if necessary.
- 5 Click the Permissions button. In the Permissions dialog box enter your group or user names, and make sure Full Control is selected. Click OK.
In Vista, right-click the *Deployments* folder and then click Share. In the File Sharing dialog box type in or browse to the name of the group or user you want to share the folder with. Click Add, and then click Share.
- 6 For each product you plan to install, create a subfolder in the *Deployments* folder. Name each folder with the pertinent product name.

Network Tools and Your License Server

If users are running the program using network licenses, you need to use the Network License Manager. The Network License Manager helps you configure and manage license servers. For information about installing and setting up the Network License Manager and licensing tools, see the *Autodesk Licensing* guide.

Setting Up and Creating a Deployment

The deployment process provides you with numerous options for creating, and customizing your deployments, so you should set aside ample time to complete the process in one sitting. To be successful, it is recommended that you review the following checklist and information before you begin. The deployment process is initiated from the installation wizard's Create Deployments selection. Once a deployment is created, users then access the deployment to install products to their computers.

Prepare for a Network Deployment

Complete the following preliminary tasks before creating a network deployment.

Deployment Checklist

- Review the system requirements. Confirm your network, servers, and client workstations meet the system requirements.
- Understand the type of license you have purchased. For a network license deployment, you should also be familiar with the type of license server model you want to use, and the license server name(s).
- Install and activate any support tools and utilities.
- Locate your product serial number and product key. These are located on the outside of the product packaging, or in the Autodesk Upgrade and Licensing Information email message.
- Determine how you intend to personalize the program(s) during registration. Using consistent registration data is very important.

Deployment Checklist

- Identify the location, and create a shared folder where deployments will reside for each program you plan to deploy.
- Close all other programs and disable anti-virus software.
- Decide which language to use for each of your deployment packages.

NOTE Languages can be included only during the creation of the deployment, not during modification.

- Determine whether your deployment plan involves using imaging software to distribute your program(s) to client workstations.
- Determine whether to create log files that contain deployment and installation data, and whether to run silent mode.

NOTE When the program is installed from a deployment using silent mode, users' systems automatically reboot without warning when the installation is complete.

- Determine an installation type (Typical or Custom), and whether to install Express Tools (if applicable).
- Determine the name and location for the installation folder, and the locations for your support file content.
- Determine your defined search paths and file locations.
- Determine whether to include additional files with your deployment, such as drawing files, AutoLISP routines, or script files.
- Determine your user preferences—including whether to display the Welcome Screen, whether to require Internet Explorer, the default publishing format, and whether to create a desktop shortcut.
- Check for service packs that might be available for your product.
- Configure access to Communication Center. Live Update notifications let you know when product updates are posted and configuring Communication Center lets users access technical information.

Deployment Checklist

- Set up access to online resources, such as DesignCenter, Subscription Center, Help, Customer Error Reporting, and InfoCenter search settings.

Configure Individual Products

You can create a deployment that uses the default product settings, or you can configure each product to be included in the deployment. To configure a product, on the Create Deployment page of the deployment wizard, select the appropriate product from the drop-down list, and click Configure.

The following configuration options are available. See *Your Deployment Choices* for details about these options.

- Select the License Type (Stand-alone or Network license)
- Select the Installation Type (Typical or Custom)
- Install Express Tools
- Select Installation Folders for Support Content
- Define Search Paths and File Locations
- Install Additional Files
- Specify User Preferences
- Include Service Packs
- Configure InfoCenter Communication Center
- Configure Access to Online Resources

When you finish selecting options, click Configuration Complete. The Create Deployment page is redisplayed, where you can confirm your selections. Click Create Deployment.

NOTE To retain a copy of your settings, click Copy to Clipboard.

If you do not want to make configuration changes on the Create Deployment page, click Create Deployment. Then click Yes to continue creating your deployment using the default configuration.

Your Deployment Choices

When you create a deployment, you will make several choices during the process to create various client deployment images and deployment types. The following sections outline your choices in more detail.

Enter User and Product Information

The User and Product Information page is used to personalize the program for your environment. The information you enter is permanently retained with the product and is displayed in the Help menu on all workstations. Because you can't change this information later without uninstalling, take care when entering the information.

You must also enter the product serial number and product key in order to run the product. The serial number and product key are located on the outside of the product packaging, or in the Autodesk Upgrade and Licensing Information email. The serial number must contain a three-digit prefix followed by an eight-digit number. The product key consists of five characters.

Your clients can review this product information later, on the InfoCenter toolbar, click the drop-down arrow next to the Help button (the question mark). Then click About - Product Information.

Creating Log Files

From the General Deployment Settings dialog, you can setup two types of log files with which you can monitor information about deployments and installations.

- **Create network log** The network log file keeps a record of all workstations that run the deployment. On the General Deployment Settings page, you choose whether or not to create a network log file. The log lists the user name, workstation name, and the status of the installation. Refer to this file for status information and details about problems that users encountered during installation (for example, low disc space or inadequate permissions).
The network log is named with the same name you chose for your deployment. You can specify where the log file is created by entering either a valid UNC (universal naming convention) path or hard-coded path on your network, for example `\\MyComputer\Autodesk\<Autodesk product>`. Users should use their actual computer name in place of *MyComputer*.

NOTE The folder where the network log resides must be a shared folder where users who install the program have Change permissions. Otherwise, successes or failures for user installations cannot be written to the log file.

- **Create client log** The client log contains detailed installation information for each workstation. This information may be useful in diagnosing installation problems. The client log is located in the *%Temp%* directory of each client workstation.

What Is Silent Mode?

When silent mode is active and a user initiates the deployment, the installation proceeds without any explicit user input. Users cannot change any of your installation settings. No dialog boxes are presented that require interaction from the user.

WARNING When the product is installed from a deployment using silent mode, users' systems will reboot automatically and without warning when the installation is complete.

Select a License Type (Optional)

When you set up your deployment, you choose the type of installation to deploy based on the type of software license you purchased: stand-alone or network. You also select the network license server model you want to use to distribute product licenses.

NOTE Depending on the type of option you choose on the configuration page, stand-alone or network license, note that you **must** use the same type of installation for *all* those products in your deployment session. If you select products that do not support the type of license you purchased, you will not be able to activate those products.

Specify the license type to use during deployment

Stand-alone license (a single serial number for a single seat) For a stand-alone license, you install, register, and activate the program on each workstation.

Network license With this type of installation, you install the program to workstations with the files and registry entries that allow the program to

communicate with the Network License Manager. You also define the configuration of the Network License Manager so that the licenses can be accessed. Workstations running the program based on a network installation do not require individual activation. Licensing of this program is managed by at least one license server.

To deploy a stand-alone license

- 1 While creating a deployment, on the Select the License Type page, select Stand-alone License.
- 2 Click Next.

Specify the license server model during deployment

If you choose the Network License option, you need to decide which license server model to use to distribute your product licenses - single, distributed or redundant license server model. For more information about license server models, see *Choose a License Server Model*.

If you are deploying a stand-alone or multi-seat stand-alone installation type, you do not use a license server model.

To deploy a network license using a single license server model

- 1 While creating a deployment, on the Select the License Type page, select the Network license option.
- 2 Select Single License Server as the license server model you want to use with the Network License Manager.

If you have already used the Network License Manager to create a license server model, you must select the same license server model in this step. If you have not yet used the Network License Manager to create a license server model, make sure that you select the same settings in the Network License Manager that you choose here.
- 3 Enter the server name of the server that will run the Network License Manager, or click the Browse button to locate the server. Click Next.

For more information about license server models and setting up your license server, see *Plan Your License Server Configuration* in *Autodesk Licensing*.

To deploy a network license using a distributed license server model

- 1 While creating a deployment, on the Select the License Type page, select the Network license option.

- 2 Select Distributed License Server as the license server model you want to use with the Network License Manager.

If you have already used the Network License Manager to create a license server model, you must select the same license server model in this step. If you have not yet used the Network License Manager to create a license server model, make sure that you select the same settings in the Network License Manager that you choose here.

- 3 Enter the name of one of the servers that will run the Network License Manager, or click the Browse button to locate the server. Click Add to add the server to the Server Pool. Once all the servers are added to the Server Pool list, use the Move Up and Move Down buttons to arrange the servers in the order you want them to be searched by a user's workstation. You must enter at least two servers. Click Next.

For more information about license server models and setting up your license server, see *Plan Your License Server Configuration* in *Autodesk Licensing*.

To deploy a network license using a redundant license server model

- 1 While creating a deployment, on the Select the License Type page, select the Network License option.
- 2 Select Redundant License Server as the license server model you want to use with the Network License Manager.
If you have already used the Network License Manager to create a license server model, you must select the same license server model in this step. If you have not yet used the Network License Manager to create a license server model, make sure that you select the same settings in the Network License Manager that you choose here.
- 3 In the First Server Name field, enter a server name of one server that will run the Network License Manager, or click the Browse button to locate the server. Enter the server names for the remaining two servers that you will use in the redundant server pool. Click Next.

For more information about license server models and setting up your license server, see *Plan Your License Server Configuration* in *Autodesk Licensing*.

Select the Installation Type (Optional)

As part of making your deployment choices, you select the type of installation that users receive when they install the program, choose which optional tools

or features are included, and specify where the product is installed on each workstation.

You choose the location where program files are installed on the client workstation in the Product Install Path. To help decide where the product is installed, a chart of drives and disc space is provided.

To deploy a typical installation, choose optional tools, and specify a product location

- 1 During the deployment, on the Select the Installation Type page, select Typical as the type of installation that you want.
- 2 Enter the path on the client workstation where you want to install the program, for example *C:\Program Files\Autodesk\<Autodesk product>*.
The Disc Space Requirements chart lets you review available drives and disc space.
- 3 Click Next.

To deploy a custom installation, choose optional tools, and specify a product location

- 1 During the deployment, on the Select the Installation Type page, select the Custom option as the type of installation that you want.
- 2 From the Select Features to install list, select the features that you want to install.
If, after making feature changes, you decide you want the original selections, click the Restore Defaults button on the Select the Installation Type page.
- 3 Enter the path on the client workstation where you want to install the program, for example *C:\Program Files\Autodesk\<Autodesk product>*.
The Disc Space Requirements chart lets you review available drives and disc space.
- 4 Click Next.

Select Installation Folders for Support Content

On the Select Installation Folders for Support Content page, you choose where your support content gets installed by specifying a folder other than the default user profile folder used in previous releases. As a network administrator, these

options give you greater control over where you place support content during installations or deployments.

Support files consist of six main types:

- Support - Includes customization/menu files, palette content and hatch and linetypes.
- Plotters - Includes plot styles (.ctb files), and plot configuration files (.pc3 and .pmp files).
- Data Links - Contains data links files.
- Template - Includes drawing and Sheet Set templates, and Publish to Web templates.
- Rendering - Includes hardware certification information, and Web Light files.
- Help - Includes User's Guide, Command Reference, New Features Workshop, and various guides and learning resources.

Among the four options available, you can choose a single shared location, local or network, where all your support content is installed. The illustration and table below outline the other available options.

There are four support content folder options:

Options	Notes
Local user profile folders	<ul style="list-style-type: none"> ■ Texture maps installed to %ALLUSERSPROFILE% ■ All other content installed to %USERPROFILE%\Roaming AppData ■ No content stored in %USERPROFILE%\Local AppData
Program install folder	<ul style="list-style-type: none"> ■ All content is installed to the Autodesk Topobase installation folder on individual user station ■ User may need power user privilege to install Autodesk Topobase ■ User may need power user privilege to run Autodesk Topobase on a system where support content is installed to the <i>OS Program Files</i> folder
Single shared folder	<ul style="list-style-type: none"> ■ Allows for a unique network path to be specified for all content types

Options	Notes
	<ul style="list-style-type: none"> ■ Subfolders for content types installed within this location ■ When a deployment is pushed to individual workstations, content is copied into the network location only once when the deployment is created
Custom folders	<ul style="list-style-type: none"> ■ Allows a unique path to be specified for different content types ■ Supports local folders and UNC or mapped network paths

An Overwrite Existing Files in Shared Network Folders check box is available when either the Single Shared folder or Custom folder options is selected. If the box is checked, the existing files in the chosen folder are overwritten. No additional warning is given. If the box is unchecked, a warning message is displayed.

Define Search Paths and File Locations (Optional)

On the Define Search Paths and File Locations page, you can modify the default search paths and the location of some program files. You might want to modify the default settings for the following reasons:

- If your environment uses a file (such as a customization file or plug-ins) other than the default file that's installed with the program, you can point to that file now and avoid having to add it at each workstation.
- Some default file locations may have changed in this version of the program. You can use this page if you have an earlier version of the program, and you want to move the files to the same file location as your earlier version.

To use the default program settings for search paths and file locations

- While creating a deployment, on the Define Search Paths and File Locations page, click Next.

To modify the default program settings for search paths and file locations

- 1 While creating a deployment, on the Define Search Paths and File Locations page, in the Define Search Paths, File Names, and File Locations

list, click the plus sign (+) to the left of a search path or file location to select and expand it.

- 2 Select an item in the list and do any of the following:
 - To browse to a file location, click Browse.
 - To add a new entry to the currently selected search path or file location, click Add.
 - To remove an entry from the currently selected search path or file location, click Remove.
 - To move a selection up or down in the list, click Move Up or Move Down.

NOTE The availability of these buttons depends on the item that you selected in the previous step.

- 3 When you finish specifying search paths or file locations, click Next.

Install Additional Files (Optional)

On the Install Additional Files page, when you click Browse, you can specify additional files to include with a deployment. By default, these files are installed in the program's installation directory on client workstations when the deployment is run. You can install files to multiple directories if desired.

You can perform the following operations:

- Specify additional files (such as drawing files, AutoLISP[®] routines, or script files) to include with your deployment.
- Install user files, of any format, and place them in any directory on the client's workstation.
- Add subfolders under the installation folder (for example, a folder called *LSP* to contain custom AutoLISP routines).
- Add files to the same location as program files (for example, add sample drawings for a project).
- Add files to the root of the installation directory.

NOTE It is recommended that you install these files to a location within the program's directory structure. You cannot install files with the same file name as an installed program file. For example, you cannot add a file named *acad.cui*.

To install additional files

- 1 While creating a deployment, on the Install Additional Files page, set the location where the files will be installed.
- 2 Do any of the following:
 - Click Browse to open the Add Files dialog box, where you can select files to add to the installation directory.
 - Click Add Folder to create a new folder in the installation directory.
 - Click Add Drive to add a drive name to the file location structure. The drive name must be a valid drive letter and colon, for example C: or F:. Uniform Naming Convention (UNC) paths are not supported.
 - Click Remove to delete a file, folder, or drive from the installation directory.
- 3 Click Next.

Specify User Preferences (Optional)

On the Specify User Preferences page, you specify:

- Access to the Welcome Screen
- Require Internet Explorer for installation
- Set DWFX as the default publishing format
- Set a default profile name
- Display a desktop shortcut for Autodesk Topobase, or create a custom shortcut

If you do not require Microsoft Internet Explorer to be installed before Autodesk Topobase is installed, then deselect the Require Internet Explorer for installation.

Your default profile name is the name of all your users will see when they run the deployment.

Clear the check box for Create a Desktop Shortcut for Autodesk Topobase if you do not want the product shortcut icon to appear on the user's desktop. If you want to create a custom desktop shortcut, specify a shortcut name and any parameters, such as switches that will call profiles, startup scripts, and so on.

Include Service Packs (Optional)

You have the option to include service packs for your product. You can select to download and apply a service pack from *autodesk.com*, or choose to use a locally stored (local hard drive or local network) service pack. In either case, the service pack will be applied only after the installation of the main product is completed.

If you select the Install Service Pack from *autodesk.com* button, the service pack will be automatically downloaded and you will not need to extract the MSP file.

If you choose to include a service pack from a local or network drive, you will need to plan how you want the service pack handled from the two options below. You will also need to complete the following steps.

NOTE If the deployment process for the main product is canceled or fails, the service pack installation will automatically be canceled.

- **Append the Service Packs onto the Deployment.** When you append a service pack, the service pack is applied to the current deployment only. Multiple service packs may be appended to a deployment. The service pack file is included in the deployment and the service pack is applied after the product is deployed.
- **Merge the Service Packs into the Administrative Image MSI File.** When you merge a service pack, the service pack is merged into the administrative image. Once merged, a service pack may not be removed from the administrative image. Multiple service packs may be included in a single administrative image.

To extract a Microsoft Installer Patch (MSP) file from a service pack

- 1 Download the service pack from the Autodesk Topobase support site.
- 2 Review the service pack *Readme* file for information about patch usage.

- 3 Open a Windows command prompt and enter the patch file name followed by the /e switch and a target file name, such as:

```
ProductSP1.exe /e ./ProductSP1.msp
```

where *<ProductSP1.exe>* is the name of the downloaded patch and *<ProductSP1.msp>* is the name of the extracted file. Using './' in front of the extraction file name places the extracted file in the same folder as the original executable. The "e" command line switch extracts the MSP file from the executable.

To include a service pack with the deployment

To include a service pack with a deployment, an MSP file must be extracted from the downloaded service pack executable.

- 1 On the Include Service Packs page, click the Browse button.
- 2 In the Open dialog box, locate the service pack you want to include with the deployment.
- 3 Select the MSP file and click Open.
- 4 Specify whether you want to append the service pack to the deployment or merge the service pack into the administrative image.
- 5 Click Next.

Configure InfoCenter Communication Center (Optional)

The Communications Center is accessed through InfoCenter. Products are updated with Live Update, which downloads patches to your product using Communication Center. Beyond Live Update, other information channels and feeds can be displayed by the Communication Center.

The Communication Center settings you can make include the following:

- **Enable Live Updates.** Users can use Live Update to check for updates when a Web connection is established. If a product patch is available, notification of its availability is received on the program's status bar, and the patch can be either downloaded directly from an Autodesk server or modified first before being copied to users' workstations. If you don't want users to receive updates or announcements, you can turn off Live Update.

NOTE You can also turn Live Update options on or off in the CAD Manager Control utility.

- **Enable Information Channels.** When active, information channels notify users with various pieces of information such as product support information.
- **Enable CAD Manager Channel.** Controls the display of the CAD Manager Channels in InfoCenter. Aside from being able to toggle CAD Manager Channels, you can also define the CAD Manager feed location and set the display name for the CAD Manager Channel.
- **Enable RSS Feeds.** Users can subscribe to any number of RSS feeds. Each feed is contained within a discrete InfoCenter category. Additionally, you can specify whether users can add RSS feeds.

To configure Communication Center

- 1 When creating a deployment, on the Configure InfoCenter Communication Center page, make the following Live Update settings:
 - **Enable Live Updates.** Users can receive product updates or support announcements from Autodesk servers.
 - **Receive Live Updates from Autodesk.** Users can receive product updates and support announcements from Autodesk servers with Live Update.
 - **Receive Live Updates from Local Server.** You can maintain a patch list on a local server. A patch list is an XML file that specifies a list of patches available for installation on your computer. If you select this option, the Local Patch List Location box is available. Use the Browse button to locate the path to a server location where you want a patch list. More information about how to use a local patch list is available by installing Autodesk CAD Manager Tools, running the CAD Manager Control utility, and then clicking Help in the CAD Manager Control utility window.

NOTE You can name a file to use for patch information. By naming a file and using an *.npl* extension now, you are creating a placeholder file, not creating the file itself. In the location that you specify in the Local Patch List Location box, you must create a text file with the same name you specify here.

- 2 Specify whether Information channels should be enabled.

- 3 Specify whether CAD Manager channels should be enabled. When active, you can make the following settings:
 - **Feed Location.** Defines the location of the CAD Manager channel RSS feed. RSS feeds are in XML format.
 - **Display Name.** Sets the display name of the CAD Manager channel.
- 4 Specify whether RSS Feeds are enabled and if users are allowed to add feeds.
- 5 Click Next.

Allow Users to Access Online Resources (Optional)

On the Configure Access to Online Resources pages, you can specify whether users can access online resources such as receiving live updates from Autodesk, enabling information or CAD Manager channels, or subscribing to RSS feeds. You can also allow access to the DesignCenter as well as specifying Customer Error Reporting and InfoCenter settings.

DesignCenter

The DC Online tab in DesignCenter provides access to pre-drawn content such as blocks, symbol libraries, manufacturers' content, and online catalogs. This content can be used in common design applications to assist users in creating drawings.

NOTE DesignCenter Online is not selected by default. If you choose not to enable DC Online at the time of installation, you can enable it later from the CAD Manager Control utility.

Subscription Center

With Autodesk Subscription, users receive the following:

- Software upgrades and exclusive product downloads
- Access to training and learning materials
- One-on-one product support
- Exclusive license terms on any Autodesk products under contract
- Access to Autodesk Knowledge Base

Online Help

Access to online Help documentation is available to your users from www.autodesk.com. The Help system can also be installed during the product installation process should you choose to restrict online access. Access to online or local Help can also be done through the CAD Manager Control utility.

The Help documentation includes User's and Customization Guides, a Command Reference, New Features Workshop, developer documentation, learning and training tutorials, and other learning resources. A product *Readme* is also available that contains late-breaking information on your product.

Customer Error Reporting (CER)

If your Autodesk product closes unexpectedly, users have the opportunity to send an error report directly to Autodesk, which helps Autodesk to determine and resolve the error. You can determine whether users can also receive notification from Autodesk when their reported errors are resolved.

NOTE You can also turn Customer Error Reporting notification on or off in the CAD Manager Control utility.

Specify InfoCenter Search Settings

The Search Results tab of InfoCenter can be configured to display content from various sources, such as the product Help system, CAD Manager Channels, or the Internet.

You can specify whether users who install from the deployment can customize access to their InfoCenter search locations.

To configure access to online resources

- 1 While creating a deployment, on the Configure Access to Online Resources page, do the following to configure DesignCenter Online:
 - To enable DesignCenter Online, select the check box next to Enable DC Online.
- 2 If you want to receive notification of problem resolutions, do the following:
 - Select the check box next to Allow Users to Receive Notification of Resolution so that users are made aware of resolutions to issues and can download applicable updates provided by Autodesk. This option is enabled by default.

NOTE Users must have administrative permissions to install an update provided by Autodesk.

- Select the check box next to Include Computer Name to include the user's computer name in error reports. The computer name is included in notifications to the user and in reports available to subscription administrators. This option is disabled by default.
- 3 Specify whether users have the option to customize their InfoCenter search locations. This option is enabled by default.
 - 4 Click Configuration Complete.

Create a Default Deployment

If you do not plan to customize your deployment, you can create a default deployment.

The following procedure illustrates how quickly you can set up a default deployment using the deployment wizard. This procedure illustrates a *single-server* network deployment using a *Typical* installation with *no customizations*. For information about customizing product configurations in a deployment, see *Create a Custom Deployment*.

To create a deployment using default settings

- 1 Start the Autodesk Topobase Installation wizard.
- 2 On the initial page, select a language for the deployment instructions. Click Create Deployments.
- 3 On the Begin Deployment page, specify the following:
 - *Administrative Image Field*. Enter or locate the path to the shared network location where you want to create and store your administrative image. Users install the program from this location.

NOTE For information on how to create a network share, see *Create a Network Share*.

- *Deployment Name Field*. Enter the new deployment's name. This name is used for the shortcut from which users will install the product.

- **This is to be a:** Select either 32-bit or 64-bit for your target operating system.

Click Next.

- 4 On the Select the Products to Include in the Deployment page, select the products, and language to include in your deployment. Click Next.
- 5 Review the Autodesk software license agreement. Click I Accept, and then click Next.
- 6 On the User and Product Information page, enter your user information, serial number, and product key. Click Next.

WARNING After you click Next, you cannot change the information entered on the this page unless you uninstall the product.

- 7 On the General Deployment Settings page specify whether to
 - Create a network log file. Specify the log file's location by entering either a valid UNC (universal naming convention) path or a hard-coded path on your network.

NOTE The folder that contains the network log file must be a shared folder for which users who install the program have Change permissions. Otherwise, successes or failures for user installations cannot be written to the log file.

- Create a client log file.
- Run the installation in silent mode to prevent users from changing installation settings.

For more information on log files, see *Creating Log Files*. For more information on silent mode, see *What is Silent Mode?*.

Click Next.

- 8 On the Create Deployment page, click Create Deployment. Click Yes to continue creating the deployment using the default configuration.
An administrative image is created in your shared folder using the deployment options listed in Current Settings. To retain a copy of your deployment settings, click Copy to Clipboard.
- 9 On the Deployment Complete page, click Finish.

Create a Custom Deployment

To alter your deployment by removing features or restricting access to online resources, customize the configuration of each product included in the deployment.

To create a custom deployment

- 1 Start the Autodesk Topobase Installation wizard.
- 2 On the initial page, select a language for the deployment instructions. Click Create Deployments.
- 3 On the Begin Deployment page, specify the following:
 - *Administrative Image Field.* Enter or locate the path to the shared network location where you want to create and store your administrative image. Users install the program from this location.

NOTE For information on how to create a network share, see *Create a Network Share*.

- *Deployment Name Field.* Enter the new deployment's name. This name is used for the shortcut from which users will install the product.
- **This is to be a:** Select either 32-bit or 64-bit for your target operating system.

Click Next.

- 4 On the Select the Products to Include in the Deployment page, select the products, and language to include in your deployment. Click Next.
- 5 Review the Autodesk software license agreement. Click I Accept, and then click Next.
- 6 On the User and Product Information page, enter your user information, serial number, and product key. Click Next.

WARNING After you click Next, you cannot change the information entered on the this page unless you uninstall the product.

- 7 On the General Deployment Settings page specify whether to
 - Create a network log file. Specify the log file's location by entering either a valid UNC (universal naming convention) path or a hard-coded path on your network.

NOTE The folder that contains the network log file must be a shared folder for which users who install the program have Change permissions. Otherwise, successes or failures for user installations cannot be written to the log file.

- Create a client log file.
- Run the installation in silent mode to prevent users from changing installation settings.

For more information on log files, see *Creating Log Files*. For more information on silent mode, see *What is Silent Mode?*.

Click Next.

- 8 On the Create Deployments page, click Configure to customize the product configuration.
- 9 On the Select the License Type page, select Stand-alone or Network license, and click Next.
- 10 On the Select the Installation Type page, specify the following:
 - *Installation Type*. Select Typical to install the most common application features. Custom to install only the application features that you select from the Select Features To Install list.
 - The following table lists features that are available for selection with a custom installation.

CAD Standards	Contains tools for reviewing design files for compliance with your standards.
Database	Contains database access tools.
Dictionaries	Contains multi-language dictionaries.
Drawing Encryption	Allows you to use the Security Options dialog box to protect a drawing with a password.
Express Tools	Contains Autodesk Topobase support tools and utilities (not supported by Autodesk).
Fonts	Contains Autodesk Topobase fonts and TrueType fonts.

Autodesk Seek	Autodesk Seek. <hr/> NOTE Seek will only be installed in the English version of Autodesk Topobase. <hr/>
Welcome Screen	Contains learning resources to help discover the product.
License Transfer Utility	Allows users to transfer an Autodesk product license between computers. <hr/> NOTE The utility will not be installed on unlocked versions of Autodesk Topobase. <hr/>
Migrate Custom Settings	Migrates custom settings and files from previous version of your product to this version.
Initial Setup	Allows users to perform some basic customization of Autodesk Topobase (online content, workspaces) based on their units system, industry, and commonly used task-based tools.
Reference Manager	Allows users to view and edit the paths of externally referenced files associated with a drawing.
Samples	Contains various feature sample files.
Tutorials	Contains tutorials.
Dictionaries	Contains multi-language dictionaries.
Fonts	Contains Autodesk Topobase fonts and TrueType fonts.
Autodesk Seek	Autodesk Seek. <hr/> NOTE Seek will only be installed in the English version of Autodesk Topobase. <hr/>
Welcome Screen	Contains learning resources to help discover the product.

License Transfer Utility	Allows users to transfer an Autodesk product license between computers.
	NOTE The utility will not be installed on unlocked versions of Autodesk Topobase.
Migrate Custom Settings	Migrates custom settings and files from a previous version of your product to this version.
Initial Setup	Allows users to perform some basic customization of Autodesk Topobase (online content, workspaces) based on their units system, industry, and commonly used task-based tools.
Samples	Contains various feature sample files.

- *Install Optional Tools.* Specify whether to install Autodesk Topobase Express Tools Volumes 1-9 which contains a library of productivity tools designed to help you extend the power of Autodesk Topobase.
- *Product Install Path.* Specify the drive and location where you want to install the product.

Click Next.

- 11 On the Select Installation Folders for Support Content page, choose the location for your support content. For more information about support file locations and options, see *Select Installation Folders for Support Content*. Click Next.
- 12 On the Define Search Paths and File Locations page, specify the necessary search paths, file names, and file locations. Click Next.

WARNING Do not remove the DRV path. Always add paths as secondary paths.

- 13 On the Install Additional Files page, specify the installation location and the filenames of any additional files you want to include in the deployment. Click Next.
- 14 On the Specify User Preferences page, specify whether to display the Welcome Screen, whether to require Internet Explorer, the default publish format, the default profile name, and whether to create a desktop shortcut. Click Next.

- 15 On the Include Service Packs page specify whether to include any available service packs. The installer automatically checks *autodesk.com* for available updates.
- 16 On the Configure InfoCenter Communications Center page, specify whether to allow users access to the latest information and product discussions through live updates from Autodesk, Information and CAD Manager channels, and RSS feeds. Click Next.
- 17 On the Configure Access to Online Resources page, you can set up access to online tools such as DesignCenter, Subscription Center, and Online Help. You can also specify Customer Error Reporting settings, and allow users to customize InfoCenter searches. Click Next.
- 18 On the Configuration Complete page, select a product tab to configure another product, or click Configuration Complete to review your settings.
- 19 On the Create Deployment page, click Create Deployment. To retain a copy of your deployment settings, click Copy to Clipboard.
- 20 On the Deployment Complete page, click Finish.

Modify a Deployment (Optional)

After a deployment is created, it may be necessary to modify the deployment for some client workstations. You can apply a patch or include various custom files that are not part of the base administrative image. You can also perform modifications such as changing the installation directory from drive C to drive D.

To modify a deployment

- 1 Open the shared network folder where you originally chose to place your product deployment.
- 2 In the Tools folder, double-click the Create & Modify a Deployment shortcut.
The deployment wizard is redisplayed.
- 3 Click through the deployment pages and make the necessary changes.
- 4 Click Create Deployment.

Point Users to the Administrative Image

When you are done creating the deployment, users can install the program using the shortcut located with the administrative image. The shortcut name matches the deployment name that you specified in the deployment wizard. Notify users of the location of the administrative image, instruct them to double-click the shortcut, and provide any other necessary instructions.

Installation Troubleshooting

3

This chapter provides solutions to installation issues and answers to commonly asked questions that may arise while installing your product(s).

General Installation Issues

This section outlines common issues and their solutions that may arise while performing a general install of your product(s).

How can I check my graphics card driver to see if it needs to be updated?

It is recommended that you verify and update your graphics card driver to optimize your program. Use the following procedure to identify your current graphics card driver.

To identify your graphics card driver

- 1 Start Autodesk Topobase.
- 2 At the command line, enter **3dconfig**.
- 3 In the Adaptive Degradation and Performance Tuning dialog box, click View Tune Log.
- 4 Review the 3D Device section for information about your system's graphics card driver and driver version.

To identify your graphics card driver

- 1 On the Start menu (Windows), click Settings ► Control Panel.
- 2 Click the Display icon to access the Display Properties.
- 3 Open the Settings tab and click the Advanced button.
- 4 Click the Adapter tab to check the adapter type.
- 5 Click the Properties button and open the Driver tab to check driver version and see if newer drivers are available.

TIP Many newer graphic cards offer tabbed pages where you can learn more precise information about your specific graphic card. If specific tab pages are present, refer to them instead of the Adapter tab.

What is the text editor used for?

You can use the text editor to edit text files, such as PGP, and CUS dictionary files while you are running your product.

What is the advantage to installing the Materials Library?

The Materials Library contains over 300 professionally made materials that you can immediately apply to objects in your model. They can also act as a basis for custom materials that you want to create. The Materials Library is primarily for CAD users.

For more information regarding materials, see *Materials and Textures* in the *AutoCAD User's Guide*.

Can I migrate my custom settings?

AutoCAD includes a tool for migrating custom setting from one release to the next and between separate installations of the same release. Autodesk Topobase 2011 does not support the Migrate Custom Setting tool.

Where are my product manuals?

All documentation created for Autodesk products are built in two different formats: PDF and CHM.

- PDF files are made available during installation; click the Documentation link in the installer.
- CHM files are available after the product is installed. You can access these files in the product's Help system.

The entire content of the PDF files are available from within your installed product's Help system.

Files are also installed to the `\Autodesk Topobase\Help\Manuals` folder.

Can I print Crystal Reports?

You can run Crystal Reports for Topobase using Crystal Reports version 10 or version 11. Your installation DVD includes Crystal Reports version 11 Run-time. To install Crystal Reports, run the installer from the installation DVD and select Tools and Utilities. Check the appropriate box to install Crystal Reports, then complete the installation by following the steps in the Installation Wizard.

What is SAMreport-Lite?

SAMreport-Lite is a report generator that helps you monitor the usage of applications that use FLEXnet™. SAMreport-Lite complements FLEXnet by providing a graphical user interface (GUI) from which to run usage reports. SAMreport-Lite can help you make better decisions about your software assets. For more information, see the *SAMreport-Lite User's Guide* in Help.

Licensing Issues

This section outlines common issues and their solutions with regards to software licenses and licensing your product(s).

What is the benefit to using a network licensed version of the software?

Network licensed products are recommended for large drafting/design facilities, classrooms, and lab environments. The main advantage is that you can install products on more systems than the number of licenses you have purchased (for example, purchasing 25 licenses but installing on 40 workstations). At any one time, products will run on the maximum number of systems for which you have licenses. This means you get a true floating license. If software needs to be run on more systems, additional licenses can be purchased.

Registration and activation occurs only once and the licenses are maintained on your Network License Server.

As long as all the systems have Internet access, products are automatically activated the first time they are launched.

What is Internet Explorer used for?

Topobase Web runs on Internet Explorer. To run Topobase Web, either disable pop-up blocking, or add tbwebclient to the block exception list. If pop-up blocking is enabled, you will not be able to run Topobase Web.

Do I need to turn off my pop-up blocker to run Topobase Web?

If you cannot initialize Topobase Web, check Internet Explorer and make sure that pop-up blocking is turned off, or that tbwebclient is added to the block exception list.

Networking Issues

This section outlines common issues and their solutions with regards to performing a network installation or configuring your network license server(s).

Where do I find my server name?

When installing a network licensed product, you must specify the name of the server that will run the Network License Manager. If you don't know the

server name, you can quickly find it by opening a Windows command prompt on the system that will be the Network License Manager. At the prompt, enter `ipconfig /all` and note the Host Name entry.

If I choose to create a log file, what kind of information does the log file contain?

The Topobase Client log file contains detailed installation information for each workstation. This information may be useful in diagnosing installation problems. The client log is located in the `\Temp` directory of each client workstation.

When specifying user workstation settings, I am given the option to specify a profile. What are profiles?

Profiles are created on the Profiles tab of the Options dialog box. Profiles can contain configuration settings for just about anything that is not a drawing based system variable. For example, a profile can contain things like support paths, grip settings, and plot settings.

When you specify a profile on the Specify User Preferences page during the deployment process, it ensures that all workstations that use that deployment to install the product will be configured the same way.

Can I create custom desktop shortcuts?

You can choose to create custom desktop shortcuts that use command line switches to specify several options when you start the program. For example, command line switches can be set to run a script during program launch, create a drawing based on a template or prototype drawing, or designate a workspace that should be restored on startup.

For more information, see *Customize Startup* in the *AutoCAD User's Guide*.

What happens when I choose to append or merge service packs?

When you append a service pack, the service pack is applied to the current deployment only. Multiple service packs may be appended to a deployment. The service pack file is included in the deployment and the service pack is applied after the product is deployed.

When you merge a service pack, the service pack is merged into the administrative image. Once merged, a service pack may not be removed from the admin image. Multiple service packs may be included in single admin image.

You can choose to append or merge service packs from the Include Service Packs page when creating a deployment.

What is an administrative image (MSI) file?

An *administrative image* is a collection of shared file resources created during the deployment process and is used by deployments to install the program to networked workstations. Service packs (patches) can be applied to an administrative image when you create the deployment. A *.msi* file is a Microsoft Installer file.

Uninstall and Maintenance Issues

This section outlines common issues and their solutions with regards to adding and removing features, reinstalling or repairing your installation, and uninstalling products.

When adding or removing features, how can I tell what features get installed by default?

To quickly see what gets installed during a typical, default installation, click the Restore Defaults button on the Add/Remove Features page.

CAD Standard	Contains tools for reviewing design files for compliance with your standards.
--------------	---

Databases	Contains database access tools.
Dictionaries	Contains multi-language dictionaries.
Drawing Encryption	Allows you to use the Security Options dialog box to protect a drawing with a password.
Express Tools	Contains CAD support tools and utilities.
Fonts	Contains program fonts (True Type fonts are automatically installed with the program).
New Features Workshop	Contains animated demos, exercises, and sample files to help users learn new features.
Portable License Utility	Contains a tool for moving a stand-alone license between computers.
Reference Manager	Allows you to view and edit the paths of externally referenced files associated with a drawing.
Samples	Contains sample files for various features. Sample are part of a default installation. (Visual Lisp samples are not installed by default.)
VBA Support	Contains Microsoft Visual Basic for Applications support files.

Is it possible to change the installation folder when adding or removing features?

Once your product is installed, you cannot change the installation path from the Add/Remove Features page. Changing the path while adding features would result in program corruption so it is not an option.

When should I reinstall the product instead of a repair?

You should reinstall your product if you accidentally delete or alter files that are required by the program. Missing or altered files will adversely affect the performance of your product and cause error messages when you try to execute a command or find a file.

If an attempt to repair an installation fails, reinstalling is the next best option.

Do I need my original disk to reinstall my software?

When performing a reinstall of the product, you do not need to have the original CD on hand. Installation data is cached locally on your drive and that data is reused when reinstalling.

When I uninstall my software, what files are left on my system?

If you uninstall the product, some files will remain on your system such as files you've created or edited like drawings or custom menus.

Your license file also stays on your workstation when you uninstall your product. If you reinstall on the same workstation, the license information remains valid and you do not have to reactivate the product.

Index

A

- administrative images
 - shortcuts to 45
 - system requirements 17
- Autodesk Channels 35
- Autodesk Subscription 36

B

- browsers
 - system requirements 2

C

- CAD Manager Channel 35
- CAD standards (custom feature for stand-alone installation) 52
- CD-ROM drives
 - system requirements 2
- CER (Customer Error Reporting) 37
- client log files 25
- client workstations
 - system requirements 17
- communication protocols 18
- computers 17
- Configure button 23
- configured deployments 40
- Crystal Reports
 - installing 49
- custom settings
 - migrating 48
- Customer Error Reporting (CER) 37
- customized deployments 23, 40

D

- database access tools 53
- DC Online 36
- default deployments 38
- default display model repository 9

- Deployment wizard 38
- deployments
 - about 21
 - checklist 21
 - choices 24
 - Configure button 23
 - customized 23, 40
 - Deployment wizard 38
 - modifying 44
 - preparing for 17
 - system requirements 17
- DesignCenter Online 36
- dictionaries 53
- display model repository 9
- distributed license server model 19
- drawing encryption tools 53
- drivers
 - OpenGL driver system requirements 2

E

- express tools 53

F

- file locations 30
- fonts
 - program fonts 53

G

- graphics adapters
 - system requirements 3

H

- hard disk
 - system requirements 2

- hard disks
 - system requirements 18
 - hardware
 - network system requirements 17
 - hardware requirements 2
 - Help documentation 37
- I**
- InfoCenter Communication Center 34
 - installation
 - additional files 31
 - Configure button 23
 - customizing 23
 - network deployment 21, 24
 - service packs 33
 - software deployments 21, 24
 - types of 18, 27
 - installing 7
 - the program (stand-alone installation)
 - system requirements 2
 - Internet Explorer (Microsoft) 2
 - Service Packs 2, 5
 - Internet Information Services (IIS) 11
- L**
- license file 9
 - license servers
 - configuring 21
 - specifying 26
 - system requirements 17
 - types of 19
 - licenses
 - license servers 19
 - license types 25
 - Live Updates 34
 - log files
 - creating 24
- M**
- Media Browser
 - about 7
- memory (RAM)
 - system requirements 2
 - Microsoft Installer Patch files 33
 - Microsoft Internet Explorer 2
 - Service Packs 2, 5
 - Microsoft Windows operating systems 17
 - migrating custom settings 48
 - monitors
 - video
 - system requirements 2
 - MSP files 33
 - multi-seat stand-alone installations 18
- N**
- network adapters 18
 - network administration
 - about 17
 - license servers 21
 - network installations
 - Configure button 23
 - deployment 21, 24
 - system requirements 17
 - types of 18
 - network license installations
 - selecting 19
 - network license server 9
 - network log files 24
 - network shares
 - creating 20
 - new features workshop 53
- O**
- online Help 37
 - online resources 36
 - OpenGL driver
 - system requirements 2
 - operating systems
 - system requirements 2, 17

P

- patches (service packs)
 - system requirements 2, 5
- PDF files
 - viewing or printing 7
- pointing devices
 - system requirements 2
- portable license utility 53
- preferences 32
- printing PDF files 7
- processors 17
 - system requirements 2
- product information 24
- product manuals 37

R

- RAM
 - system requirements 2
- Readme file
 - viewing 7
- redundant license server model
 - selecting 19
- reference manager (custom feature for stand-alone installation) 53
- registration 9
- RSS feeds 35

S

- sample files 53
- SAMreport-Lite 49
- search paths 30
- Search settings 37
- serial number 9
- service packs 33
- Service Packs (Windows) 2
- shortcuts
 - administrative images 45
- silent mode 25
- single license server model 19
- software installation requirements 17
- software requirements 2
- stand-alone installations
 - selecting 18

- Subscription Center 36
- support content folders 28
- system requirements 2
 - Autodesk Topobase Client and Administrator 4
 - Autodesk Topobase Web 5
 - database server 4
 - network deployments 17
 - Oracle requirements 6
 - viewing 7

T

- Topobase activation 9
- Topobase Web
 - Internet Information Services (IIS) 11
 - Pop-up blocking 50

U

- user information 24
- user preferences 32

V

- VBA support 53
- video cards
 - system requirements 3
- video monitors
 - system requirements 2
- viewing
 - installation documentation 7
 - PDF files 7
 - system requirements 7

W

- web browsers
 - system requirements 2
- Windows (Microsoft)
 - Service Packs 2, 5
- Windows operating systems
 - system requirements 2, 17

workstations

system requirements 17