

## TIPS AutoCAD Map 3D 2013 Installation Instructions

### Getting Started

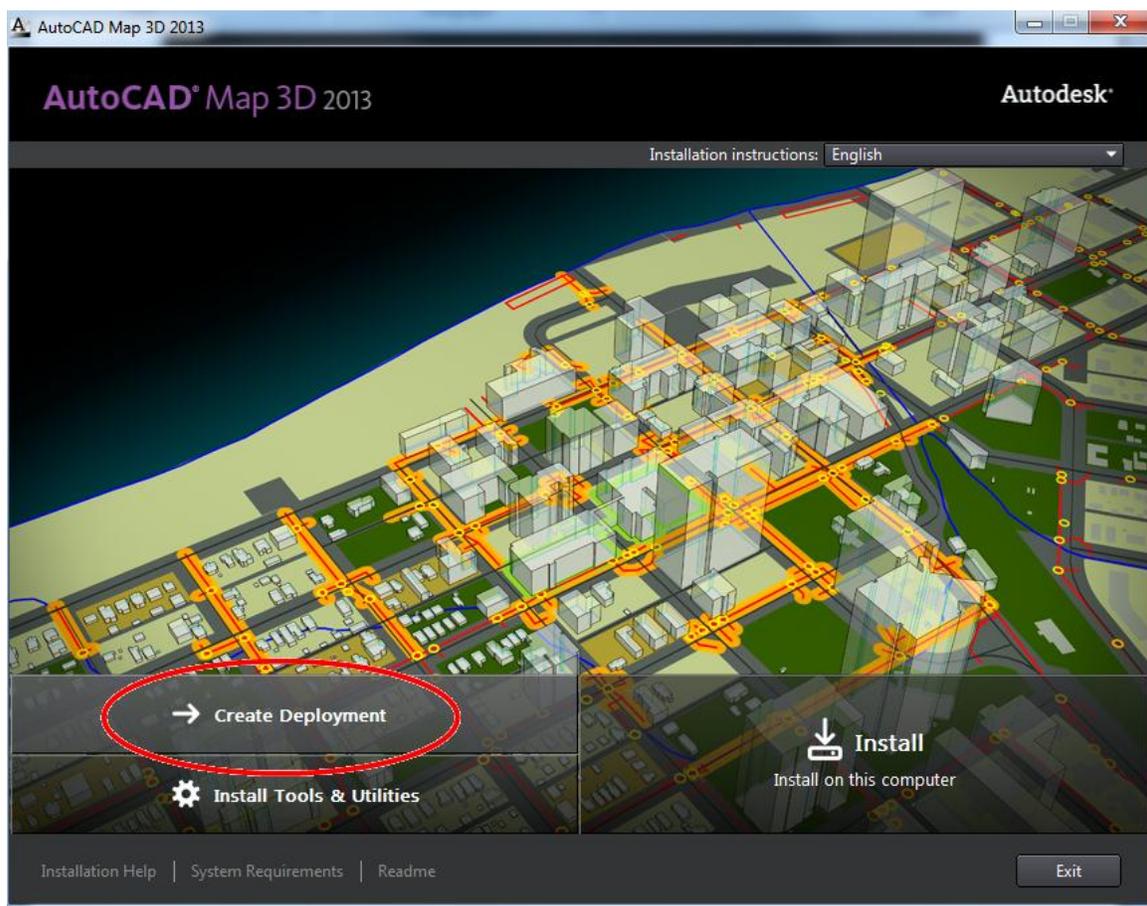
- All TIPS software users must install the latest KeyServer Client on their machine prior to installing new software versions. This is a requirement of the TIPS program to allow for adequate collection of license and server usage statistics. The latest KeyServer Client is available on the TIPS website <http://www.tips.osmre.gov/Software/Downloads.shtml>.
- Before starting the AutoCAD Map 3D installation process, you will need the following:
  - AutoCAD Map 3D 2013 DVD or download / order “free trial” from the Autodesk website at <http://usa.autodesk.com/autocad-map-3d/>.
  - Serial number, product key, and environment variable information provided with the TIPS distribution.
  - A network shared folder with full access privileges (if creating a network deployment image). This is the location where the deployment administrative image will be created. The image will occupy between 4 and 5 GB of disk space.
  - The recommended program installation (Map 3D + Design Review) requires approximately 3.19 GB of disk space on each user computer.
  - **Administrative Privileges – “Administrator” credentials are necessary for installation (see pages 2 and 7). In addition, for Windows 7 installations, the first time that the program is launched BY THE USER, it must be done using Administrator credentials (see page 8).**
  - TIPS recommends that all antivirus services be disabled during installation.

### General Overview

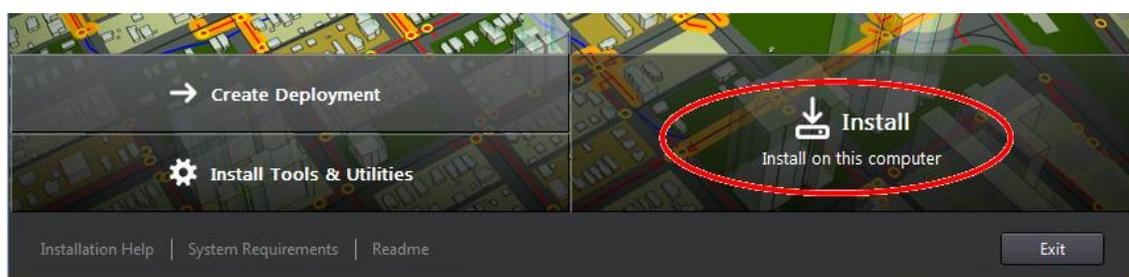
- Deployment Image (Recommended) - Although AutoCAD Map 3D can be installed directly on each user machine, we recommend that a network deployment image be created and used for consistent installation. Once created, the deployment image is used for installation on individual user computers without having to configure each installation separately; all files necessary to run the program on each user computer are copied, and no communication with the image is required after the initial installation.
- Direct Install (Optional) - As an option, the software can be installed directly to user machines without creation of a deployment image. This will require separate (i.e., repeated) configuration for each installation. The installation procedure is the same as that shown below under ‘Create a Network Deployment Image,’ minus references to deployment image name, directory location, and general deployment settings.
- **All installations must be configured as “Network, Single License Server” license type (See page 4).**
- Environment variables must be set on each user machine according to the documentation provided in the software distribution package. Note that if TIPS AutoCAD software has been previously installed, the variable(s) will already be set. See page 14 for details on accessing the variables.
- Visit <http://www.autodesk.com/support> to check for current updates and service packs.
- If you have any questions or difficulties, contact Tom Mastaller at (412) 937-2108 or TMASTALLER@OSMRE.GOV; if Tom is unavailable, contact Stefanie Self at (412) 937-2105 or SSELF@OSMRE.GOV.
- Additional information (e.g., most recent installation instructions and installation FAQs) is available on the TIPS webpage <http://www.tips.osmre.gov/Software/cad/CAD.shtml>.

## Initialize Installation

- You must have Administrator credentials to perform the installation (i.e., You must be logged in as an administrator or, optionally for Windows 7 installation, right click on the appropriate shortcut and select the “Run as Administrator” option).
- Insert the appropriate TIPS AutoCAD Map 3D 2013 DVD (i.e., 32-bit or 64-bit). If the setup does not start automatically, browse to <DVD DRIVE>:\setup.exe to initialize. If you have downloaded an installation file, navigate to it and double click on it to initialize installation. Enter appropriate “Administrator” credentials if requested to do so.
- **Recommended Installation:** Click **Create Deployment**. This will initiate creation of a deployment image on a network drive. The deployment image can then be used to install the software on any number of user machines over the life of the software version. Continue with **Create a Network Deployment Image** on page 3, below.

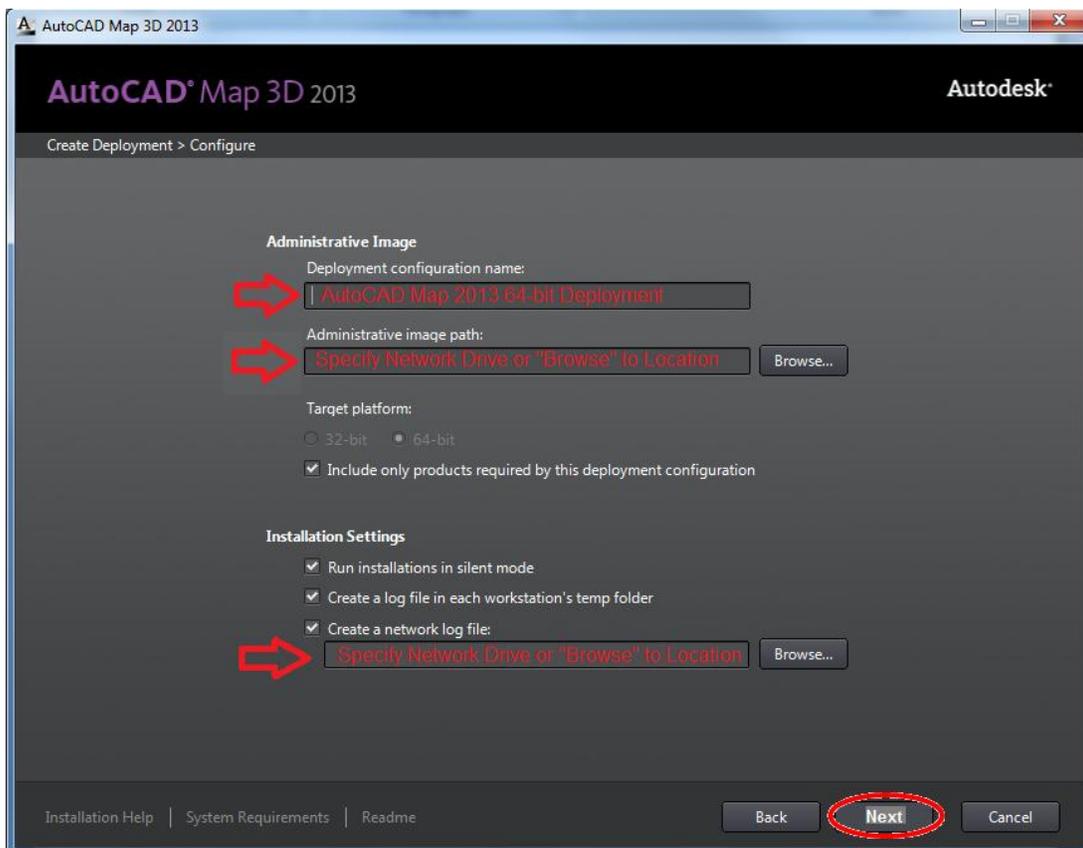


- **Optional Installation:** Click **Install (Install on this computer)**. This will initiate direct installation of the software on the current user machine; configuration will have to be repeated for each installation. Please take special note of all underlined instructions.

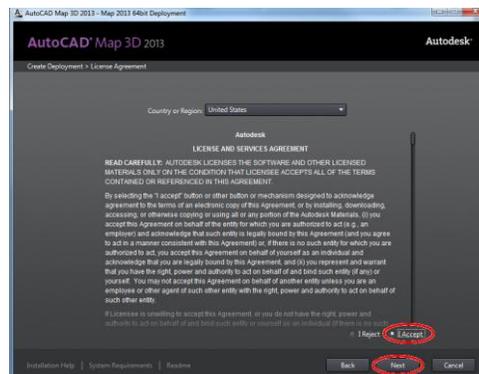


## Create a Network Deployment Image

- Specify the deployment configuration name (e.g., AutoCAD Map 2013 64-bit Deployment). This “names” the associated program shortcut for the deployment.
- Specify (or “Browse” to select) a Network Directory location where the deployment image is to be created and later accessed for installation on user computers (The image requires between 4 and 5 GB of disk space.). Note: This window is not applicable if using the direct install option.
- Note the default “Installation Settings”; these are recommended. If a network log file is to be created, the network directory will default to the network location where the deployment image is to be created (specified above); this can be changed if desired.
- Click **Next** to continue.

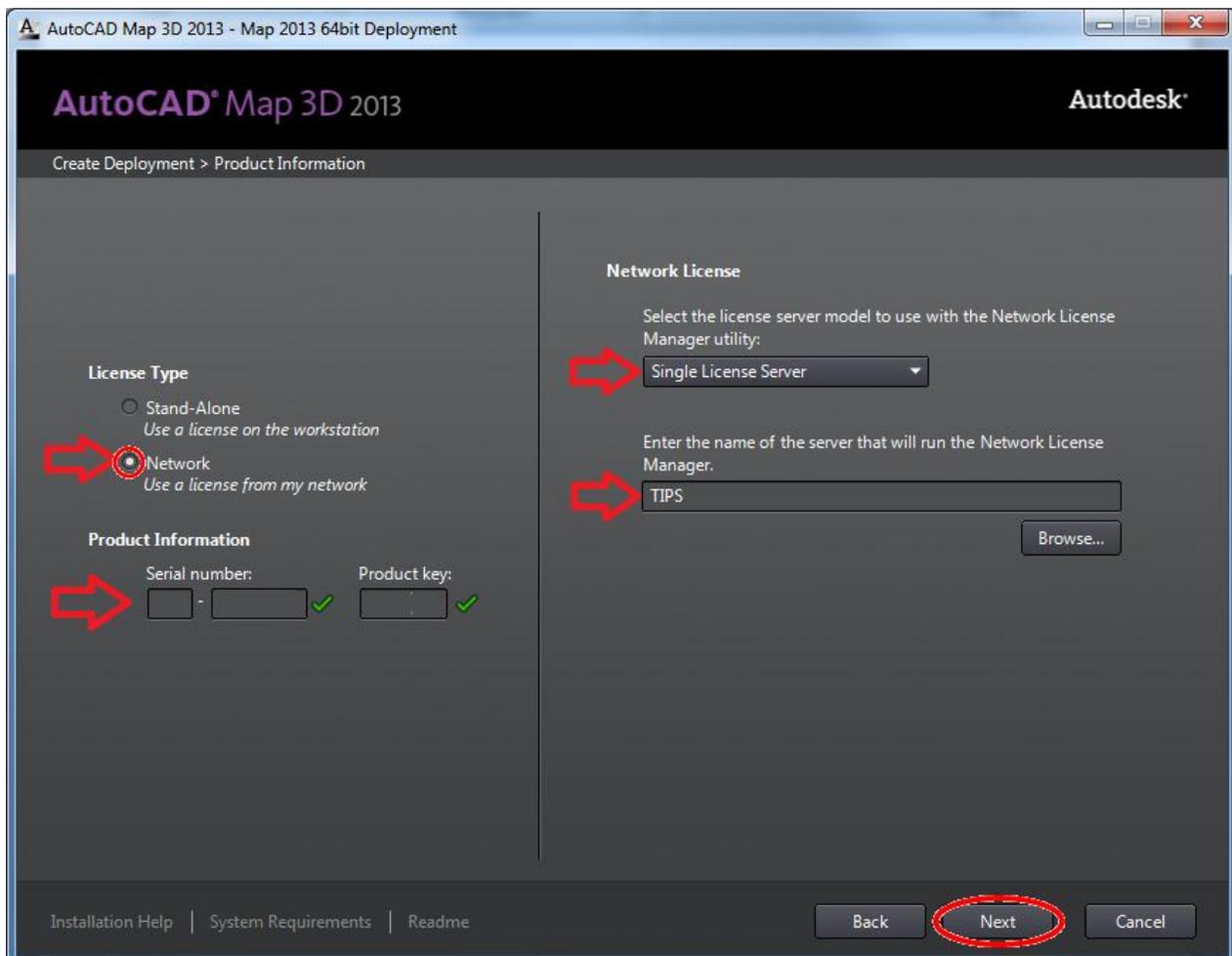


- Review the license agreement and select (i.e., click in the circle next to) “I Accept” to continue. [Continue here if using direct install option.]
- Click **Next** to continue.

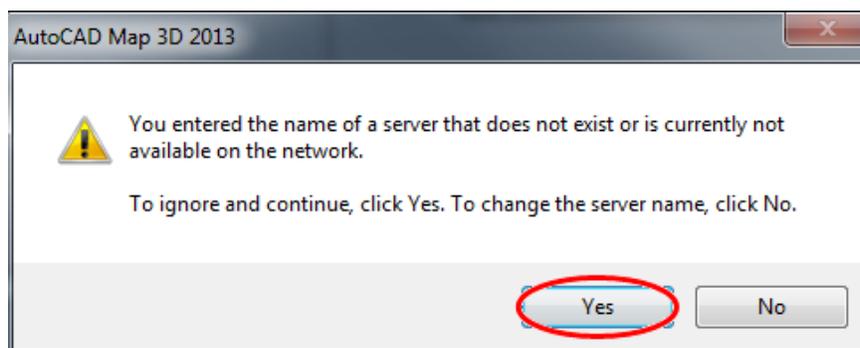


**\*\*\*\*\* CRITICAL STEP \*\*\*\*\***

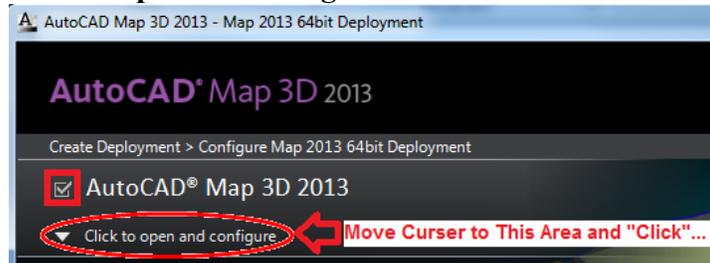
- Click the circle next to 'Network'.
- Verify that the license server model is 'Single License Server' (This should be the default when 'Network' was selected (above step)).
- Enter the Serial number and Product key that was provided with the software distribution.
- Enter 'TIPS' as the name of the license server.
- Click **Next** to continue.



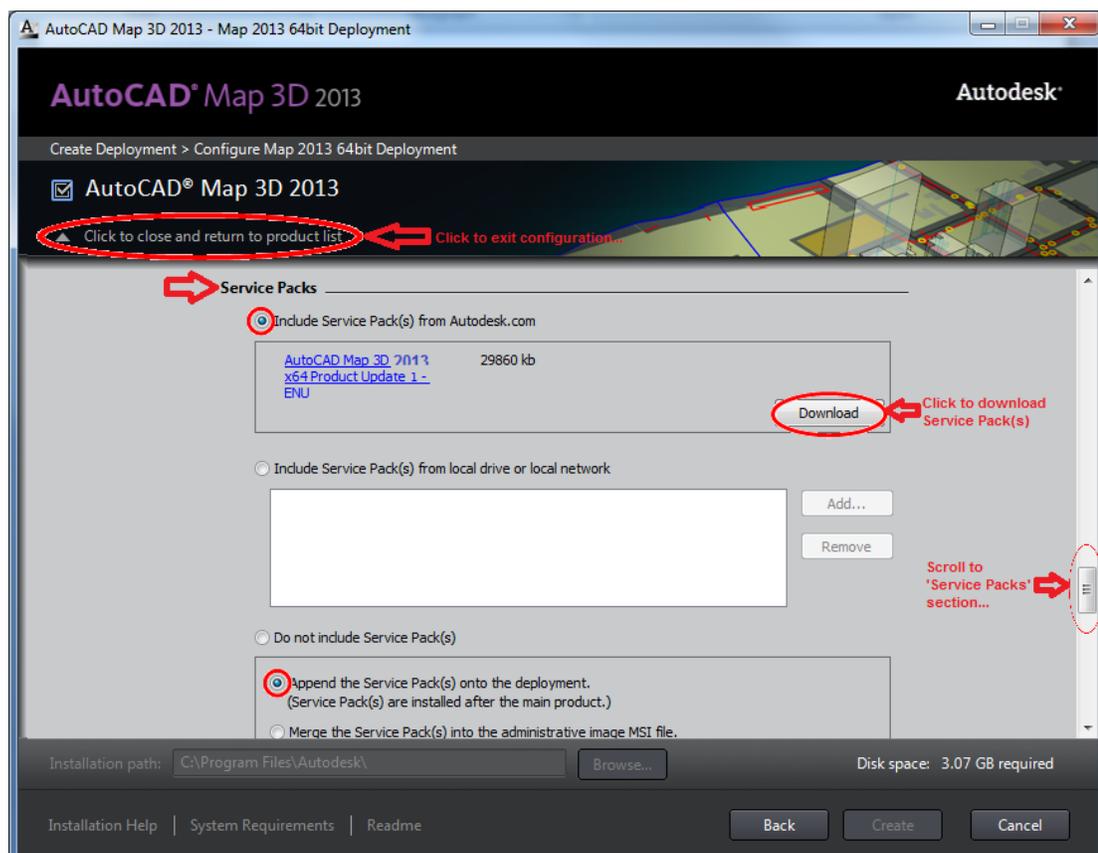
- You will get a warning that the server does not exist.
- Click **Yes** to ignore the warning and continue.



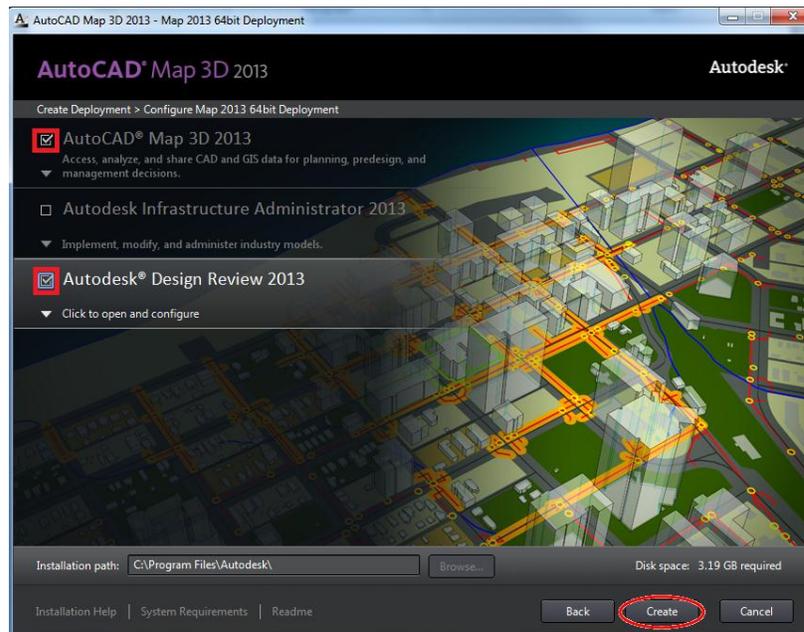
- Note that the box next to ‘AutoCAD Map 3D 2013’ is automatically “checked” to include it in the deployment / installation. The program requires approximately 3.07 GB of disk space on user computers.
- Although the default configuration settings (*except ‘Service Packs’, see Recommended Configuration Option, below*) are adequate in most cases, you may access / edit specific configuration settings by moving your cursor to the area shown in the screenshot below and clicking ‘Click to open and configure’.



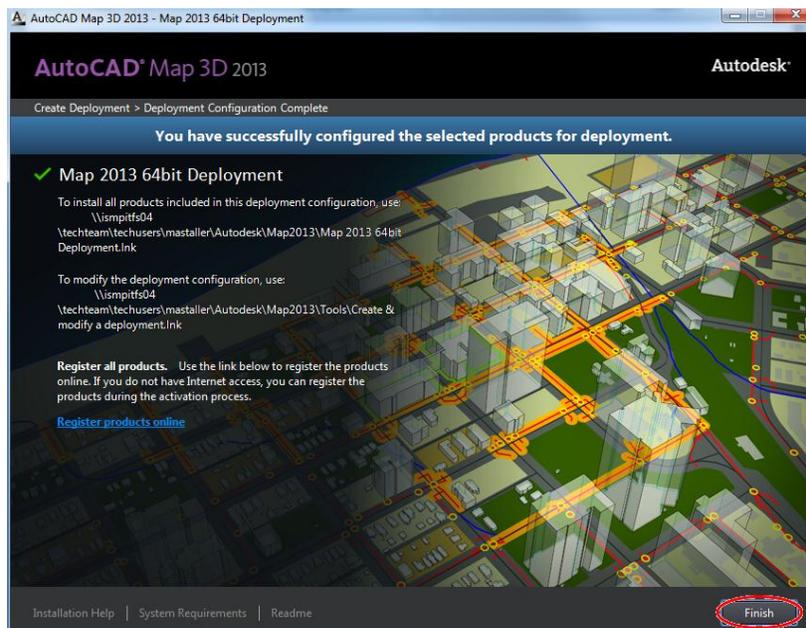
- **Recommended Configuration Option:** To ensure that the software version is up to date, we recommend that available Service Packs be downloaded and included in the deployment. To provide for this, once the Configuration window is opened, scroll down to ‘**Service Packs**’ section.
- The installation routine will have automatically searched for available Service Packs if an internet connection is available.
- To include Service Packs / Updates:
  - Select ‘Include Service Pack(s) from Autodesk.com’;
  - Click ‘**Download**’;
  - After the download is completed, verify / select ‘Append the Service Pack(s) onto the deployment’. (This step not applicable to direct install.)
- Click ‘Click to close and return to product list’ to continue.



- *Optional installation:* Check the box next to ‘Autodesk Design Review’ to include it in the deployment; this requires an additional 0.11 GB of disk space. This program is recommended as it will allow users to open, mark-up, and/or print AutoCAD drawings without access to the OSM license server (i.e., it is a standalone program).
- Click **Create** to continue. This will begin the creation of the deployment image.
- If using the direct install option, click **Install**; after the installation routine is completed (estimate 30 – 60 minutes), click **Finish** and continue on to ‘Launch AutoCAD Map 2013’ on page 8.

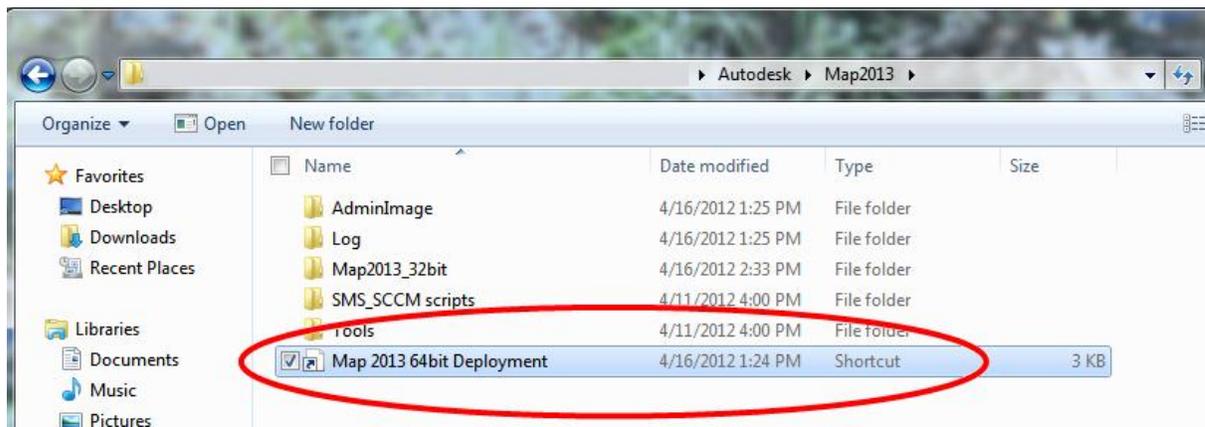


- The deployment will now be created. The process will rotate through various screen images as necessary files are copied to the deployment. Depending on computer / network connection speed, the process may take 30 – 45 minutes.
- When the process has completed, note the paths for product installation and deployment modification shown on the summary window.
- Click **Finish** to complete the process and exit.

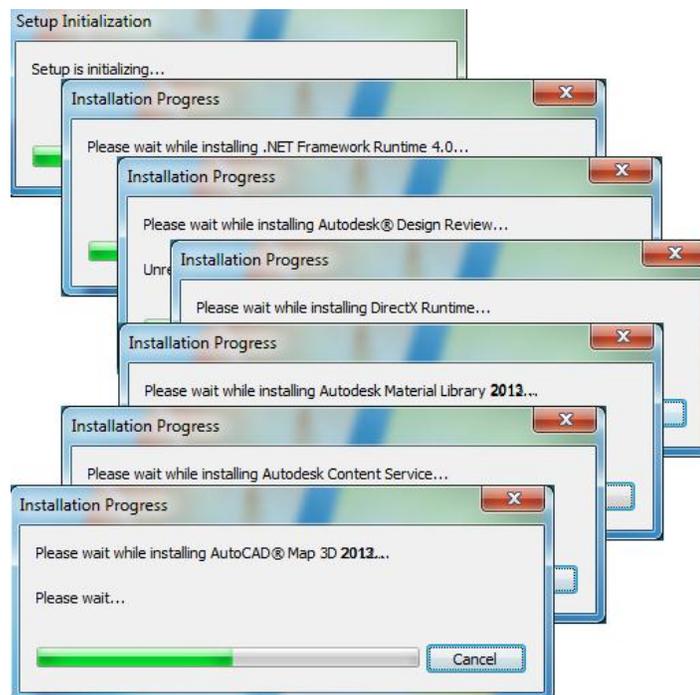


## Install AutoCAD Map 3D 2013 on Client Machines

- From the client machine, navigate to the directory that contains the Network Deployment Image (i.e., the network directory that was specified during creation of the deployment image; see page 3.).
- *You must have Administrator credentials to perform the installation (i.e., You must be logged in as an administrator on the client machine and, for Windows 7 installation, right click on the shortcut and select the “Run as Administrator” option).*
- Double click (or right click /Run as Administrator) on the shortcut in this directory. It will have what ever name you specified during creation of the deployment image (see page 3).
- Optionally, the shortcut can be copied to an alternate, more convenient location and accessed there; note that the deployment image location must not be changed and must be accessible for installation to proceed.



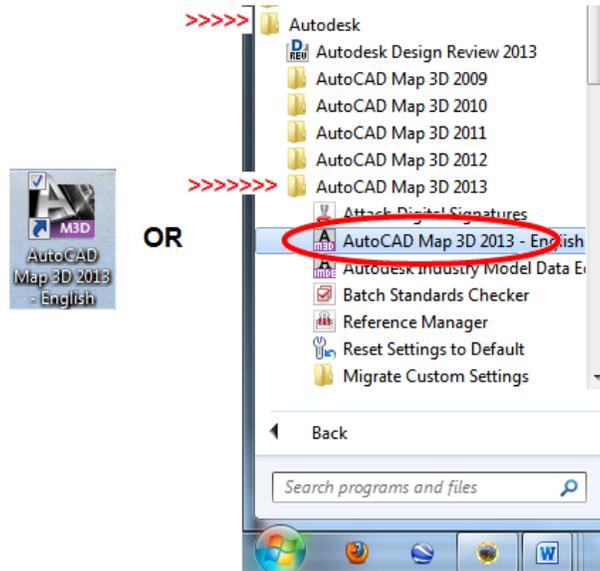
- Installation will begin and should take 30 - 45 minutes to complete, depending on network connection and client machine speed.



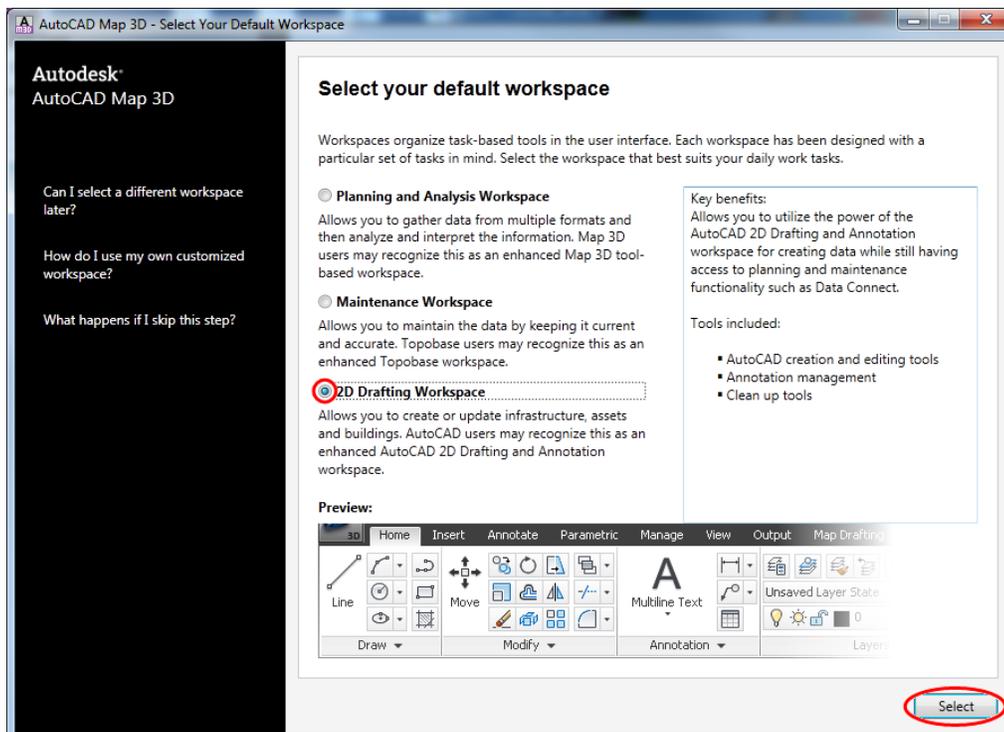
- Note that the status window will simply close (i.e., disappear) when installation is complete. There will not be a “notice” that the installation was successful.

## Launch AutoCAD Map 2013

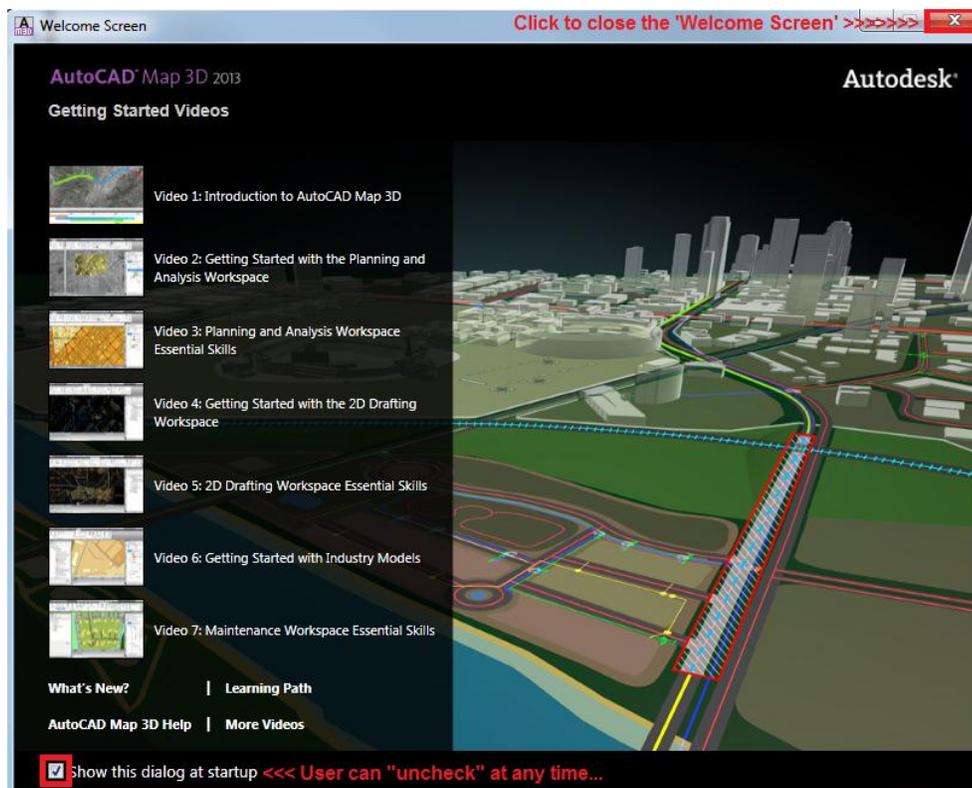
- The program can be launched from the desktop shortcut or from the Start Menu.
- *Note that for computers running the Windows 7 operating system, the program must be run the first time by the user (i.e., User logged-in) using Administrator credentials. Even if the user is an Administrator, we recommend that the program be started by right clicking on the shortcut and selecting the “Run as Administrator” option.*



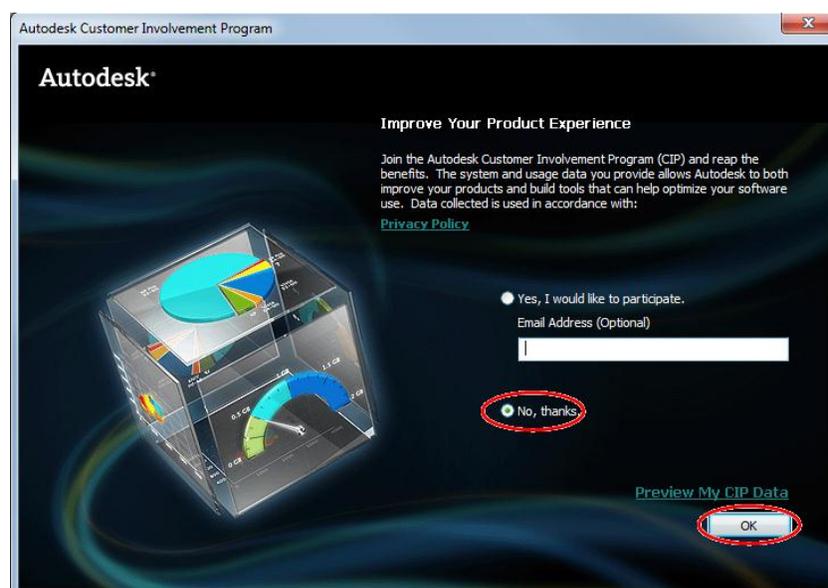
- Note the information window on selecting the default workspace.
- ‘2D Drafting Workspace’ is recommended to start;
- Note: If the user desires, ‘Map Classic Workspace’ can be selected after program start.
- Click **Select** to continue.



- The Welcome Screen will appear with the default ‘Show this dialog at startup’ checked/selected; the default is suggested to enable the user to be reminded of the Getting Started Videos on the next program launch. (The Videos can also be accessed at any time from the program ‘Help >> Learning Resources [or Learning Path]’ menu.).
- Click “X” button on upper right of window to close and continue to the program screen.



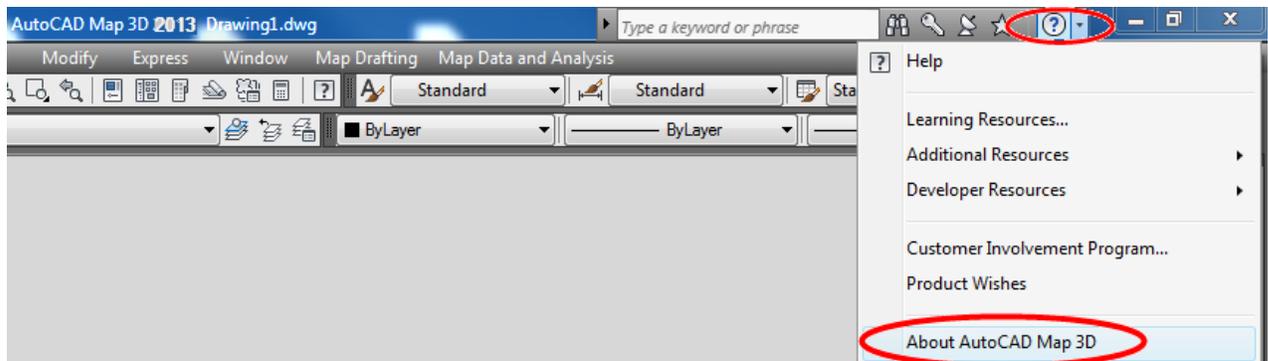
- If prompted, choose the desired option for the Autodesk Customer Involvement Program; ‘No Thanks’ is recommended.
- Click **OK** to continue.



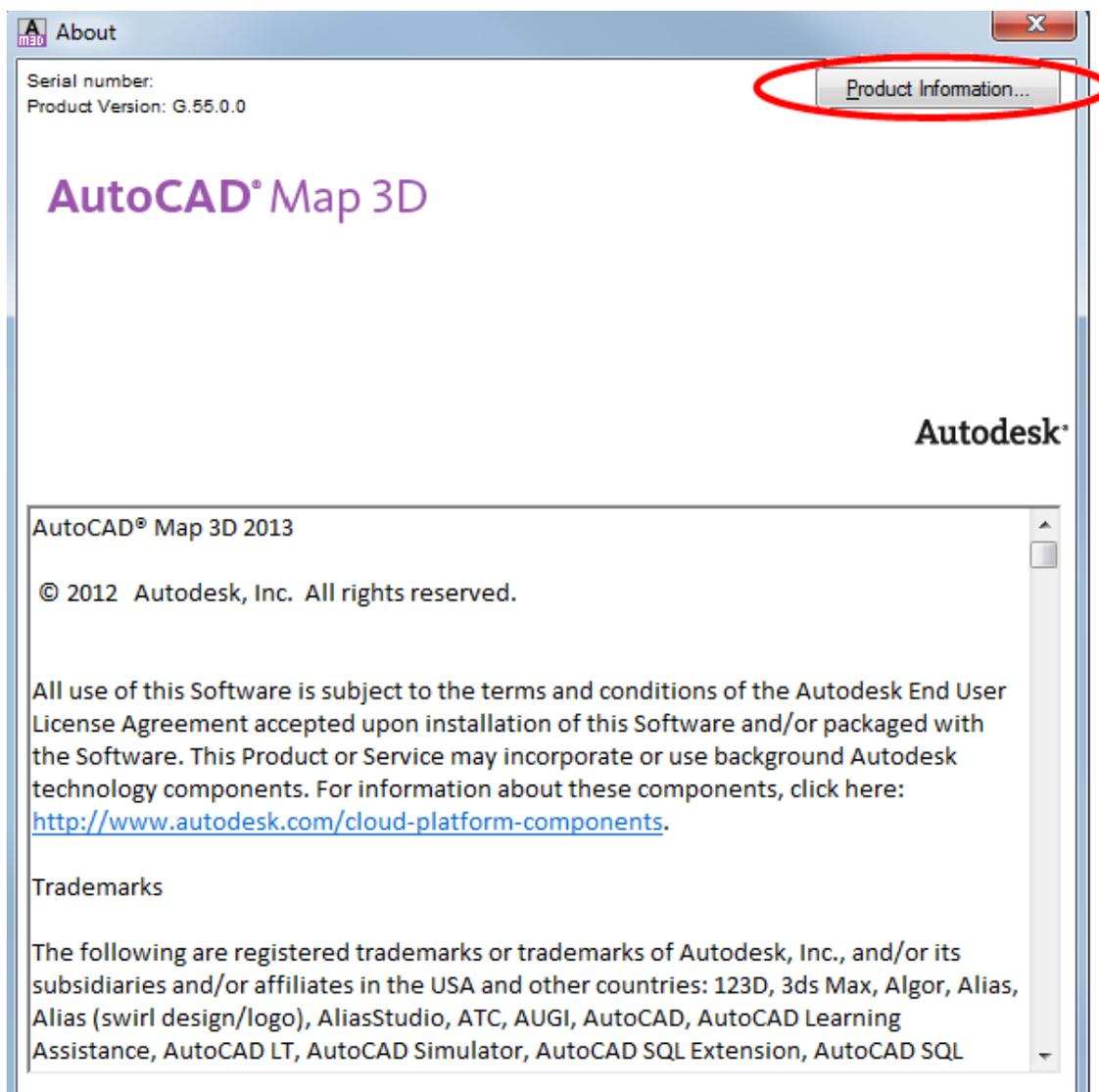
- The program will open to the default workspace (‘2D Drafting Workspace’ or other as selected on page 8, above)...

## Verify Installation / Network Licensing

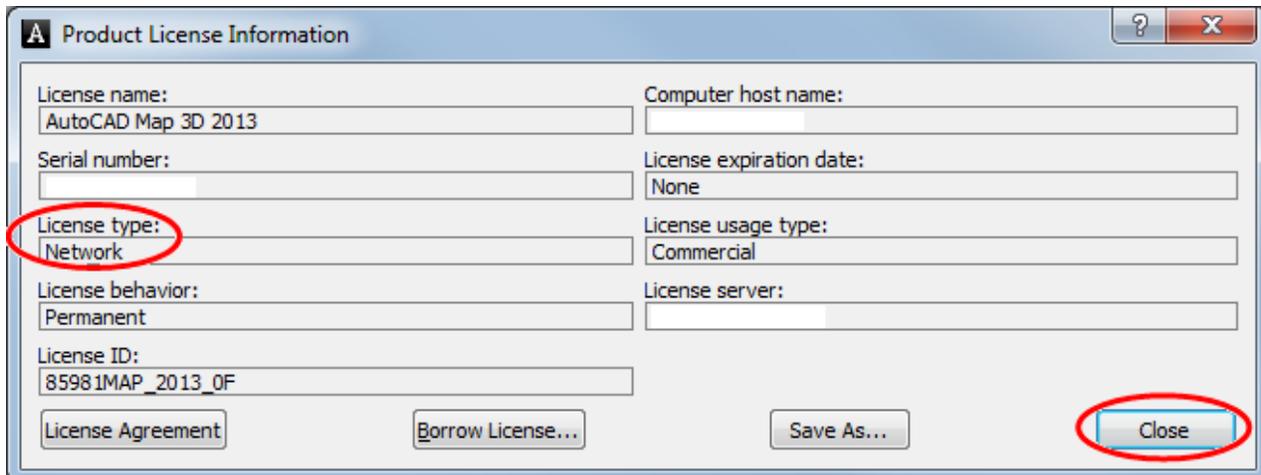
- To verify that the client installation has performed properly, open the 'Help' menu dropdown (click on down "arrow"  at upper right of window) and then click **About AutoCAD Map 3D**.



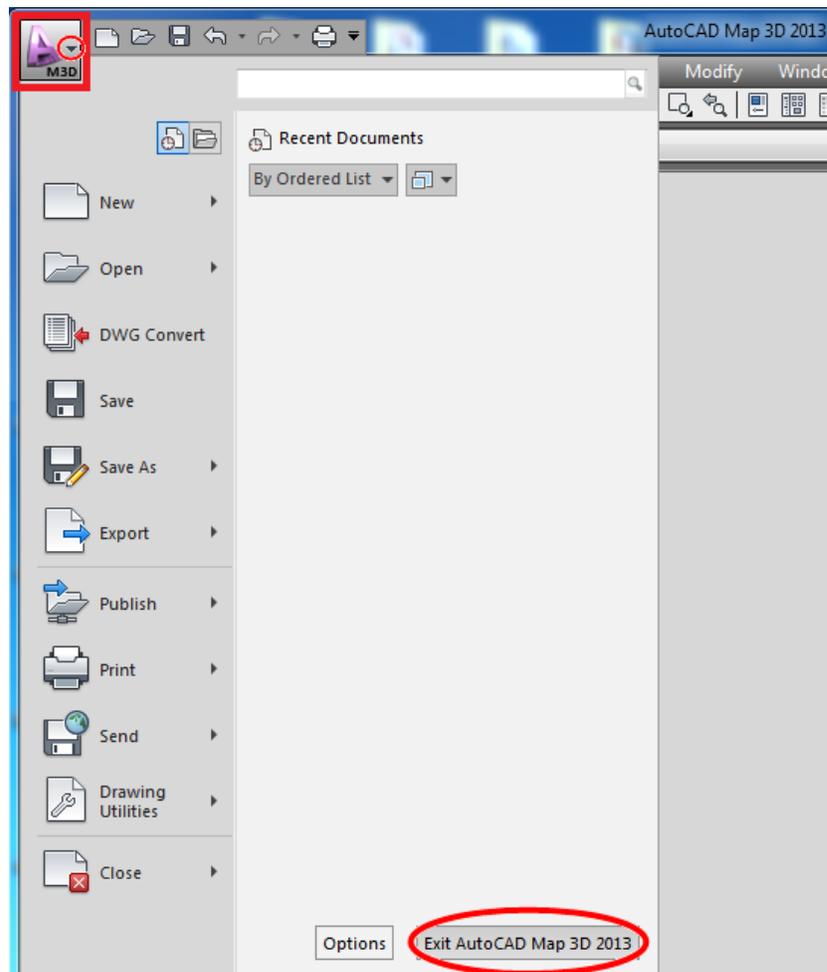
- Click on the **Product Information** button.



- Verify that the value for 'License type' is 'Network'. If the value is anything else, the installation did not perform properly and the licensing is not valid.
- After verifying the setting, click **Close**.

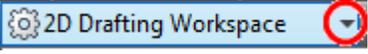


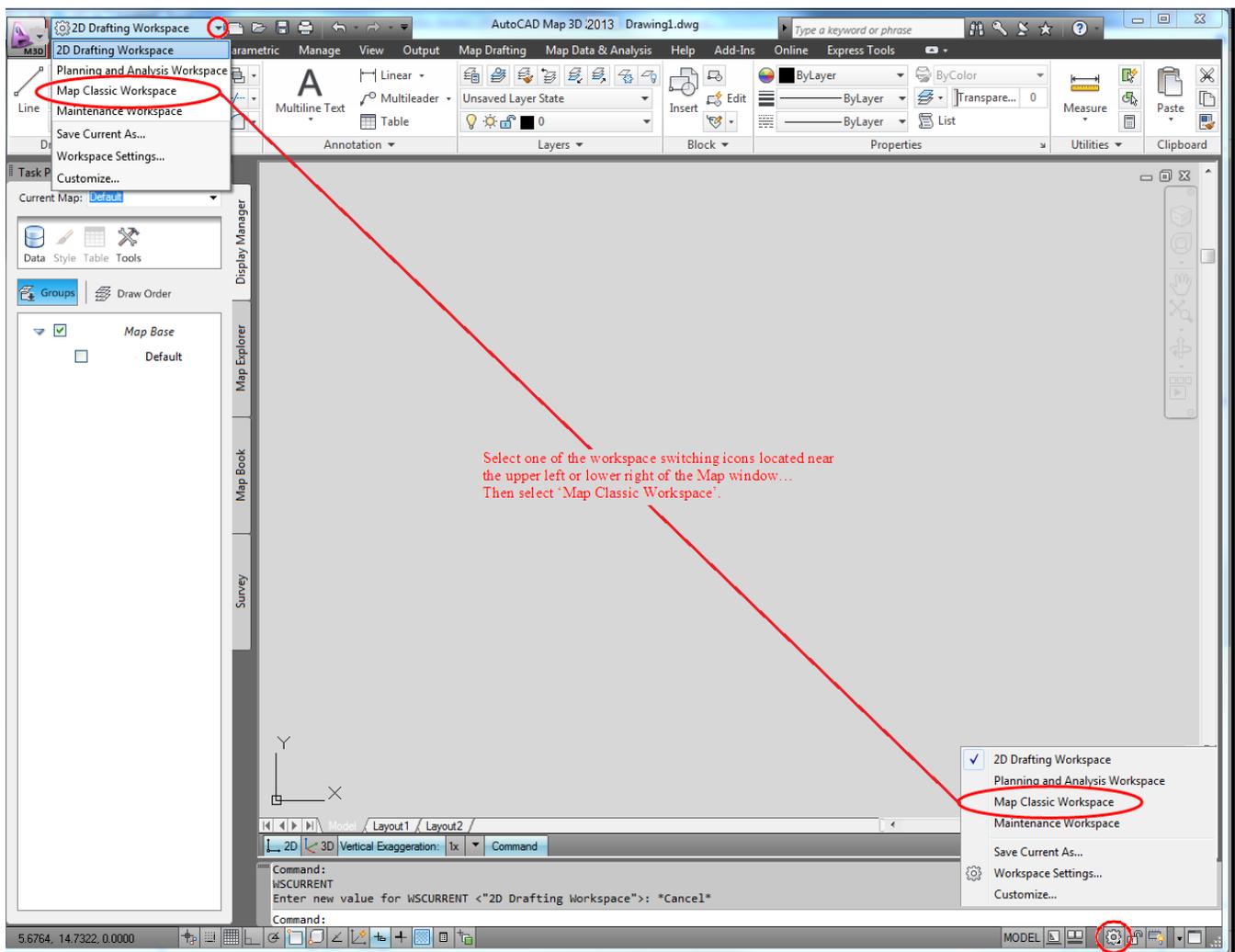
- To Exit the program, click on down “arrow”  at upper left of window) and then click **Exit AutoCAD Map 3D 2013**. (Click **No** if prompted to save the drawing file).



## Switching to Map Classic Workspace

Although the classic workspace from earlier versions of AutoCAD Map is not available at program startup, the user can easily change to it after opening the program. However, the AutoCAD Map Classic Workspace cannot be saved as the default; the change would have to be made each time the program is opened [Note that none of the AutoCAD Map workspaces will be available if / when the Carlson software is installed].

- Change to the 'Map Classic Workspace':
  - Click on the Workspace Switching icon at lower right of the Map program window  or the workspace menu dropdown "arrow" near the upper left corner of the Map window  to access the workspace menu;
  - From the resulting menu, Select / Click 'Map Classic Workspace'.



- The workspace will change to 'Map Classic' (dropdown menus and toolbars at the top)...

## Program Updates

- Check for the latest program updates and service packs at:  
<http://usa.autodesk.com/adsk/servlet/ps/dl/index?siteID=123112&id=2334435&linkID=9240858#section1>. (If the hyperlink is outdated go to <http://www.autodesk.com/support> and select support for the 'AutoCAD Map 3D' product [see image below] and navigate to 'Data & Downloads' then 'Updates & Service Packs'.).

The screenshot shows the Autodesk website's 'Services & Support' page. The 'Get Product Support' section is expanded to show a list of products. 'AutoCAD Map 3D' is highlighted with a red circle. The 'Install and Activate Your Software' section includes links for installation help, activation, and network licensing. The 'Service Packs and Downloads' section provides links to find service packs and downloads. The 'Support Updates' section offers a link to view recent additions to the knowledge base. The 'Get Premium Support' section lists options for one-time use, subscription services, and enterprise priority support.

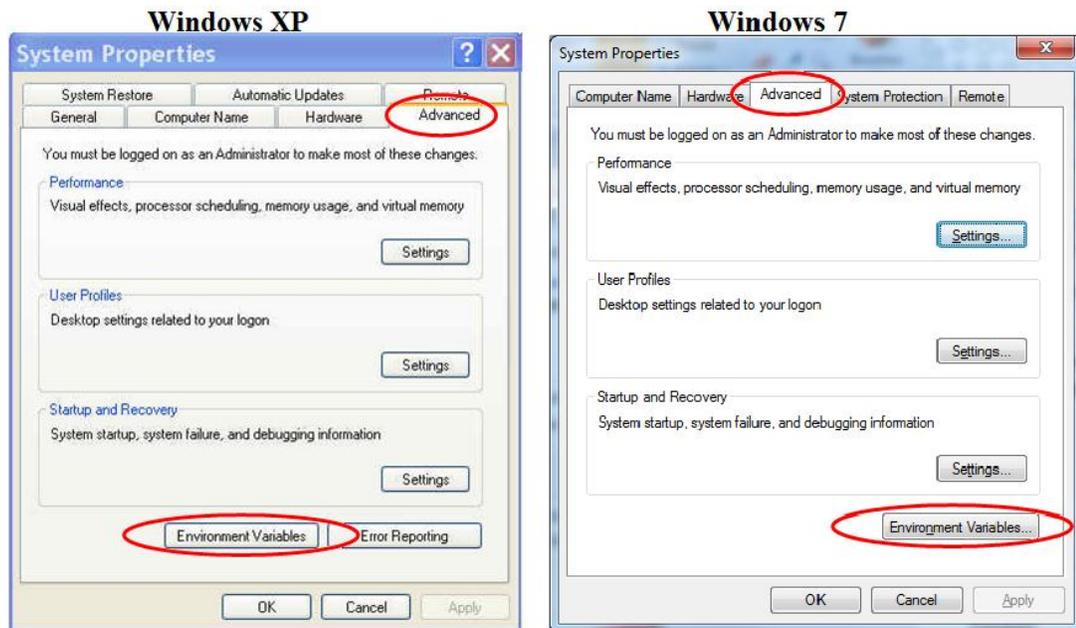
- Recommended Updates as of 2/1/2013:
  - These updates can be downloaded from Autodesk website (see above).
  - AutoCAD Map 3D 2013 Service Pack 1
    - Recommended if not automatically included during installation (see page 5)
  - AutoCAD Map MS Installer Error
    - This error was originally reported for 2010 software versions but has been seen to occur for later versions of the software and may occur in some installations of 2013 software...
    - Some users have experienced a bug where, when certain applications are started (e.g., SEDCAD or ArcGIS / ArcMap), the Microsoft installer will initiate the configuration of AutoCAD Map.
    - <http://usa.autodesk.com/adsk/servlet/ps/dl/item?siteID=123112&id=14174241&linkID=9240857> ).
    - The reported solution to suppress the installer dialog from popping up is as follows:
      - In windows Explorer navigate to:  
 XP: *C:\Documents and Settings\All Users\Application Data\Autodesk\*  
 Win 7: *C:\ProgramData\Autodesk*
      - Copy the *Geospatial Coordinate Systems* folder.
      - Paste the folder to the same location.
      - Once the copy is complete, rename the copied folder to:  
*Geospatial Coordinate Systems Temp*

## Accessing Windows Environment Variables

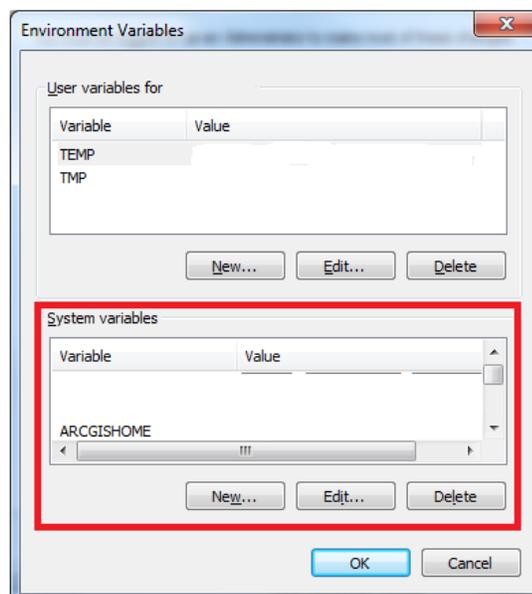
Certain environment variables must be set to allow Autodesk products to obtain a license from the TIPS license server. Specific information on the necessary variables is listed in the software distribution letter mailed to your TIPS contact.

To access the environment variables:

- Navigate to **Start Menu -> Control Panel -> System** to open the 'System Properties' window (In Windows 7, **Start Menu -> Control Panel -> System->Advanced System Settings**).
- On the 'System Properties' window, select the '**Advanced**' tab and click **Environment Variables**.



- The lower half of the resulting Environment Variables dialog box is the area where you can add new variables or edit existing ones.



## Installation / Update Contacts

If you have any installation or update questions or difficulties, contact Tom Mastaller at (412) 937-2108 or [TMASTALLER@OSMRE.GOV](mailto:TMASTALLER@OSMRE.GOV); if Tom is unavailable, contact Stefanie Self at (412) 937-2105 or [SSELF@OSMRE.GOV](mailto:SSELF@OSMRE.GOV).

Additional information (e.g., most recent installation instructions and installation FAQs) is available on the TIPS CAD Software webpage <http://www.tips.osmre.gov/Software/cad/CAD.shtml>.



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## CAD

**ALERT:**  
TIPS will only support three versions of Autodesk software prior to the 2011 release. If you are using versions previous to 2008, you must upgrade to versions 2008 or newer. Please contact your TIPS Contact or Service Manager to obtain the latest version.

**New Course Offering in 2011**  
TIPS will be offering a new course, "CAD 400: Bridging the CAD and GIS Gap in the SMCRA Workflow." The purpose of this course is to assist personnel in integrating both CAD and GIS processes into SMCRA workflows. Exercises will include use of Title IV and V data to show mechanisms of interoperability between CAD and GIS. Check out the TIPS and NTPP class survey for this new.

Team Members  
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Webpage  
Last Updated: 07/18/2011

Website Last Updated:  
December 20, 2012