Minitab

Installation Guide
Basic Installation

This section provides the basic steps in a typical installation of Minitab. For instructions on advanced installation options, see Client Installation Options on page 19.

Note: On a PC, Minitab is available in 64-bit and 32-bit versions. When installing Minitab, use the syntax specific to the operating system. For details, see Deploying Minitab on a PC on page 22 and refer to “Required syntax.”

To install Minitab, follow the steps below. To renew an existing installation that has reached or is close to reaching its expiration date, see Renewing licenses on page 15.

1. Designate authorized users of multi-user licensing web pages (optional).
2. Determine installation configuration.
3. Create license files at the multi-user licensing web pages.
4. Obtain software.
5. Install software.

Step 1: Designate authorized users of multi-user licensing web pages

To access the Minitab multi-user licensing web pages so that you can create the license files for the installation, you must be either the Minitab License Coordinator for your organization or an authorized user.

At the time of purchase, someone from your company was designated as the Minitab License Coordinator. That person has permission to log in to the Minitab multi-user licensing web pages to create license files. In addition, your company can have other authorized users.

If you are not sure whether you’re an authorized user, contact your organization's Minitab License Coordinator. Only the License Coordinator can request additional authorized users by contacting a Minitab sales representative or Minitab Technical Support.

Step 2: Determine installation configuration

All multi-user installations require Minitab License Manager, the software that manages Minitab based on the information in the license file. Minitab License Manager must be installed in a configuration that allows it to communicate with Minitab.

You can choose from several different installation configurations to suit your needs. For example, you can install Minitab License Manager on a server in a networked configuration. In a networked configuration, users access the license file on the server; therefore, each client computer does not need to be permanently assigned to a separate license file. Another option is to install Minitab License Manager and Minitab on each client computer in a standalone configuration, which requires a separate license file for each client computer.

The installation configuration you choose affects the number of license files you need to create and the installation procedures that you need to follow. See Installation Configurations on page 8 for detailed information that will help you to determine the best configuration for your organization.
Minitab License Manager can run on either the Windows operating system or macOS and serve licenses to both platforms. If you already have Minitab License Manager installed on a Windows or Mac server, ensure that you have the latest version to be compatible with Minitab licenses.

**Step 3: Create license file(s)**

You need at least one license file for installation. To create license files, you use the Minitab multi-user licensing web pages. One license file *per server* is required in a networked installation. One license file *per workstation* is required in a standalone configuration. See [Installation Configurations](#) on page 8 for more information on networked and standalone configurations.

You need the following information to create a license file:

- The maximum number of simultaneous users that will be served by the license. In a standalone configuration, the maximum number of users is 1 for each license. To determine the maximum number of users in a networked configuration, see Number of license files on page 12.
- The MAC address of each computer that will host a license. This is the computer's physical address.

To obtain the MAC address on a PC:
1. Run the DOS command "ipconfig /all"
2. Record the physical address that appears under Ethernet adapter Local Area Connection.
3. In the example below, the MAC address of the computer is 01-23-45-AB-CD-EF.

   **Ethernet adapter Local Area Connection:**
   
   Connection-specific DNS Suffix.:domain.local
   Description.......................:Broadom NetXtreme 57XX Gigabit Controller
   Physical Address...............:01-23-45-AB-CD-EF
   Dhcp Enabled....................:Yes
   Autoconfiguration Enabled.......:Yes
   IP Address......................:192.168.1.1
   Subnet Mask.....................:255.255.255.0
   Default Gateway..................:192.168.2.100
   DHCP Server.....................:192.168.2.100
   DNS Server......................:192.168.10.200
   Lease Obtained..................:Saturday, December 1, 2018 4:07:19 PM
   Lease Expires...................:Tuesday, December 1, 2020 4:07:19 PM

To obtain the MAC address on a Mac:
1. From the Apple menu, select **System Preferences**.
2. Select **Network**.
3. From the left sidebar, select the network interface that you are using. Select either Ethernet or Wi-Fi.
   
   **Note** Do not select Thunderbolt Ethernet or USB Ethernet because they are external adapters whose MAC address will not work.

4. Click **Advanced** on the bottom right.
5. Select the **Hardware** tab.

   The MAC address for the network interface will be displayed in the form: xxxxxxxx. For example, 3c:09:3a:6c:18:ac.

   When you create your license file, enter the MAC address without the formatting characters; remove colons or dashes (for example, 3c093a6c18ac).

   For more information on how to obtain a computer’s MAC address, see [https://support.minitab.com/installation/frequently-asked-questions/license-fulfillment/locate-my-computers-mac-address/](https://support.minitab.com/installation/frequently-asked-questions/license-fulfillment/locate-my-computers-mac-address/).
To create license files

2. Log in as an authorized user.
3. Complete the necessary steps to create the license file(s).

Step 4: Obtain software

All multi-user configurations require both Minitab License Manager and Minitab. Download the applications from the Minitab Web site using any Minitab.com account.

To download software

2. Download Minitab License Manager and Minitab. The license file is read by Minitab License Manager, the server software that manages the use of Minitab based on the information in the license file.
3. If you plan to mass deploy utilizing a software asset management tool, download the Minitab Mass Deployment Package.

Step 5: Install software

Install Minitab and Minitab License Manager based on the installation configuration that you determined in step 2. You can install Minitab License Manager on a server in a networked configuration or on each client computer in a standalone configuration. For more information about client computer configurations, see Client Installation Options on page 19.

System requirements

You can find the latest system requirements for Minitab and Minitab License Manager at https://www.minitab.com/products/minitab/system-requirements/.

To install in a networked configuration

1. Ensure that you have administrative privileges to install Minitab License Manager on the server and Minitab on each workstation.
2. Ensure that the license file is on the desktop of the server. See Create License File(s) on page 5 for more information.
3. Install Minitab License Manager on the server. The default installation folder can be found here:
   - On a PC: C:\Program Files (x86)\Minitab\License Manager
   - On a Mac: /Library/Application Support/Minitab/LicenseManager
4. Delete the license file that is on the desktop. The installation program creates a copy of the license file in C:\Program Files (x86)\Minitab\License Manager. Minitab License Manager uses the license file.
5. Install Minitab on each workstation.
   • You need to specify the network name or IP address of your Minitab License Manager server during installation.
   • Minitab chooses the first available port between 27000 and 27009. If your License Coordinator specified a different port within the license file, check Specify port number, and enter that port number.

**Note** After you set up a networked configuration, you can use borrowing to allow a portable workstation, such as a laptop, to run Minitab products while it is disconnected from the network. See Using Minitab products while disconnected from the network on page 9 for more information.

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To install in a standalone configuration

1. Ensure that you have administrative privileges to install Minitab License Manager and Minitab on each workstation.
2. Ensure that the license file is on the desktop of the workstation. See Create License File(s) on page 5 for more information.
3. Install Minitab License Manager on each workstation.
4. Delete the license file that is on the desktop. The installation program creates a copy of the license file in C:\Program Files (x86)\Minitab\License Manager. The Minitab License Manager uses the license file.
5. Install Minitab on each workstation.
   • When prompted for the name of the Minitab License Manager server, enter localhost.
   • Minitab chooses the first available port between 27000 and 27009.
The previous section explained how to install the multi-user version of Minitab products. This section provides a more in-depth explanation of the client-server model and the possible installation configurations.

Multi-user installation

The multi-user versions of Minitab products are based on a client-server installation model. Minitab (the client software) is installed on individual workstations. Minitab License Manager (the server software) is installed on a server. Every time the client software is started, it communicates with the server to ensure that a license is available.

Typically, Minitab License Manager is installed on a single server. The client software can be installed on up to three workstations for each licensed seat. Minitab License Manager ensures that the number of concurrent users never exceeds the licensed number of seats.

For example, an organization purchased 100 licenses of Minitab and configured Minitab License Manager to control all 100 licenses. Minitab was installed on 300 workstations. Even though the client software has been installed on 300 workstations, Minitab License Manager will allow only 100 instances of the client software to run concurrently.

When the client software is started, it requests a license from Minitab License Manager. If a license is available, it is sent to the client and the software starts successfully. If a license is not available, an error message is displayed.

Configuration options

Networked configuration

To set up a networked configuration, install Minitab License Manager on a server. A license file is requested during the installation process. You need to provide the license file that was created during the procedure detailed in Basic Installation on page 4 (license files should always be named “minitab.lic”). The installation program makes a copy of the license file and places it in the installation directory.

On a PC:
• Minitab License Manager is installed to C:\Program Files (x86)\Minitab\License Manager (by default).
• Minitab License Manager installation creates a Windows service called Minitab License Manager. The license manager service starts automatically when it is installed. When the service starts, it checks the Minitab License Manager installation directory for the license file. If the license file is valid, the service starts successfully.

On a Mac:
• Minitab License Manager is installed to /Library/Application Support/Minitab/LicenseManager.
• Minitab License Manager installation creates daemons called ‘minitab” and “lmgrd”. These license manager services start automatically when they are installed. When the daemon starts, it checks the Minitab License Manager installation directory for the license file. If the license file is valid, the daemon starts successfully.

Install the client software on as many workstations as necessary. During installation, you need to provide the network name or IP address of the server on which Minitab License Manager is installed.
Using Minitab products while disconnected from the network

In a multi-user installation of Minitab, the client software must be able to communicate with the Minitab License Manager server to start. To allow a portable workstation, such as a laptop, to run Minitab products when it is disconnected from the network, Minitab has a utility built into the application that allows you to borrow a license.

For example, you might use Minitab on a laptop when you travel for business. Before leaving, while still connected to your company’s network, borrow a license from the Minitab License Manager server. Then you can access Minitab on the laptop when you are disconnected from the network.

To borrow a license on a PC:
1. In Minitab, choose Help > About Minitab.
2. Click Borrow License.
3. In Borrow Through, choose a return date on the calendar.
4. Click Borrow and then click OK.

A borrowed license is returned automatically at the end of the borrowing period. To return a license before the end of the borrowing period, choose Help > About Minitab and click Return License.

To borrow a license on a Mac:
1. In Minitab, choose Minitab > License.
2. Click License options.
3. In the License Options dialog box, select Borrow a license and click Next.
4. Choose a return date on the calendar and click OK.

A borrowed license is returned automatically at the end of the borrowing period. To return a license before the end of the borrowing period, choose Minitab > License. Click License options, then select Remove the license.

Note To limit the number of licenses that can be borrowed, use the options file. For an example, see Options file on page 17.

Standalone configuration

In a standalone configuration, Minitab products do not depend on accessing a network server. Instead, the Minitab License Manager server software is installed on the same workstation as the client software, Minitab. Minitab License Manager starts two daemons that are required to run on each standalone workstation. When Minitab starts, it checks the Minitab License Manager service that is on the same workstation, regardless of network connectivity. An individual license file must be created for each workstation.

Mixed configurations

You can use a combination of networked and standalone configurations. For example, you can install Minitab on 20 workstations that are connected to the network and also install Minitab on 5 standalone workstations that are not connected to the network.

For information on mixed installation configurations and license files, see Number of license files on page 12.
Minitab License Manager

All multi-user installation configurations require the installation of Minitab License Manager, the server software that manages the use of Minitab. Minitab License Manager ensures that the number of concurrent users does not exceed the licensed number of seats, based on the information in the license file.

To restart Minitab License Manager on a PC

Minitab License Manager starts its service automatically when you install it. However, you may need to restart the Minitab License Manager service in some cases, such as when you make changes to the license file or use an options file.

1. Open a command prompt as an administrator and type `services.msc`.
2. Click Minitab License Manager.
3. Choose Action > Restart.

**Note** If you need to uninstall Minitab License Manager from a computer, such as when you change servers or installation configurations, you must first stop the license manager service. Follow steps 1 and 2 above; in step 3, choose Action > Stop. Then uninstall Minitab License Manager.

To restart Minitab License Manager on a Mac

The Minitab License Manager service starts its daemons automatically when you install it. However, you may need to restart the Minitab License Manager service in some cases, such as when you make changes to the license file. You can restart Minitab License Manager through several ways.

To re-run the Minitab License Manager installer

This approach works well if you have a new license file. Simply re-run the Minitab License Manager installer and select the new license file when prompted. The install process will copy the license file to the correct location and restart Minitab License Manager.

To manually restart Minitab License Manager

This approach works if you edit or replace the license file in-place. You need to be logged in as an administrator and ensure that the file permissions and owner are maintained.

1. Navigate to /Library/Application Support/Minitab/LicenseManager.
2. Edit or replace the license file.
3. Double-click the Restart License Manager. command script (in the same folder). It will restart Minitab License Manager, which will cause it to read in the new license file. You will be prompted to enter your password.

To uninstall Minitab License Manager

To uninstall Minitab License Manager:

1. Navigate to the /Library/Application Support/Minitab/LicenseManager area.
2. Double-click the LicenseManager_Uninstall.pkg file.
3. This will shut down the license manager server components and delete associated files.
License Files

License files are required for the installation of Minitab multi-user products. This section provides general background information on license files, including what they are, where they're created and stored, and how they're used. For instructions on how to work with license files after installation, see License Manager Utility on page 15.

What is a license file?

A license file is a text file named minitab.lic. The file does not have a .txt extension, but you can open it in a standard text editor such as Notepad. The file contains information about the licenses that your organization purchased. This information includes the expiration date, the number of licenses, and the computer's MAC address.

After you create a license file at the Minitab multi-user licensing web pages, save it to the desktop of the computer on which you will install Minitab License Manager, the server software that manages the use of Minitab based on the information in the license file.

Sample license file

SERVER this_host 0A1B2C3D4E5F
VENDOR minitab
USE_SERVER
INCREMENT Minitab minitab 19 01-dec-2020 100 VENDOR_STRING="limited \ term, limited users, borrowing enabled" DUP_GROUP=UH \ ISSUER=Minitab ISSUED=01-dec-2018 BORROW=26280 \ NOTICE="Customer ID: 01234 License Coord ID: 56789 \ RENI01234" SN="STDORD56789 01234INC" START=01-dec-2018 \ SIGN="1c71 F7B8 641F 7A84 F052 9650 F5E6 B093 ACBC 04C4 AF4D \ 5B3B 0F38 C3FB DF49 1720 F1BA D1CD 646D 4C9D 824B E7A9 F724 \ 3EDA 9B09 5628 733F F646 AC87 6C39"

In the sample license file above, the terms in bold specify the following information:

0A1B2C3D4E5F
The unique MAC address of the computer for which this license file was created.

Minitab
The name of the product for which the license file was created.

minitab
The vendor daemon name.

19
The version of the product for which the license file was created.

01-dec-2020
The expiration date of the license file.

100
The number of users allowed to concurrently run the software.

Each license file is created for a single computer. The computer is identified in the license file by its MAC address. The license file cannot be used on a computer that does not have the MAC address specified in the license file.
How license files are used

During the installation of Minitab License Manager, you need to provide the location of the license file. By default, Minitab License Manager creates a copy of the license file in the following location:

- On a PC: C:\Program Files (x86)\Minitab\License Manager
- On a Mac: /Library/Application Support/Minitab/LicenseManager

The Minitab License Manager service is then installed. The service reads the license files and then starts.

Note After you install Minitab License Manager, you can delete the license file that is on the desktop.

Authorized users can create license files at the Minitab multi-user licensing web pages. See Create License File(s) on page 5 for more information.

Number of license files

You need one license file for each Minitab License Manager that you install. In a typical networked configuration, Minitab License Manager is installed on a single server. In this case, only one license file is needed. For example, Minitab License Manager is installed on a single server that will serve all 100 licenses. You need to create a single license file for all 100 seats.

You can also divide your licenses among multiple servers, if desired. For example, Minitab License Manager is installed on two servers, one for 75 users in Department A and the other for 25 users in Department B. This installation configuration requires two license files: one file for 75 seats and another file for 25 seats.

In a standalone configuration, Minitab License Manager must be installed on each workstation. As a result, a unique license file is required for each installation of Minitab License Manager. For example, a small computer training lab has 10 computers that are not networked. You need to install Minitab and Minitab License Manager on all 10 computers. This installation configuration requires 10 license files, one for each computer.

You can have a combination of networked and standalone installations. You need to create a single license file for the server and a separate license file for each standalone workstation. For example, an organization purchases 100 licenses for Minitab. They want 10 standalone installations in the computer lab. A single server will host the remaining 90 licenses. This installation configuration requires 11 license files: one for the server and one for each of the 10 standalone workstations.

Adding a second product or additional users to your license file

When you purchase both Minitab and Minitab Workspace, you must initially create two separate license files at the multi-user licensing web pages, one for each product. However, to install both products, you need to merge the two license files into one file. After you download both license files, append the contents of one license file to the other license file.

You can also add additional users to your license, which also involves appending the contents of your new license file to the existing file.

To append an additional product to a license file

You may need to be logged in as an administrator to perform the following steps.

2. Save the new license file. Do not overwrite the existing license file in the following folder:
   - On a PC: C:\Program Files (x86)\Minitab\License Manager
   - On a Mac: /Library/Application Support/Minitab/LicenseManager

3. Open the new license file for the additional product in a text editor.

4. Copy everything from the INCREMENT line down.

5. Close the new license file.

6. In a text editor, open the original license file from the following folder:
   - On a PC: C:\Program Files (x86)\Minitab\License Manager
   - On a Mac: /Library/Application Support/Minitab/LicenseManager

7. Paste the copied contents of the new license file to the end of the original license file.


9. Restart the Minitab License Manager service.
   - On a PC: See To restart Minitab License Manager on a PC on page 10
   - On a Mac: See To restart Minitab License Manager on a Mac on page 10

10. Verify your changes.
    - On a PC: Double-click lmtools.exe in the installation directory (by default, C:\Program Files (x86)\Minitab\License Manager). Click the Server Status tab, then click Perform Status Inquiry.
    - On a Mac: Open a terminal window, then type the command:
      
      ```bash
      lmutillmstat-c"/Library/Application Support/Minitab/LicenseManager/minitab.lic"-a
      ```

11. Look for the line that includes Users of product where product = the Minitab product you added to your license.

Example of a license file with appended product

```plaintext
SERVER this_host 0A1B2C3D4E5F
VENDOR minitab
USE_SERVER
INCREMENT Minitab minitab 19 01-dec-2020 50 VENDOR_STRING="limited term, limited users, borrowing enabled" DUP GROUP=UH \ ISSUE=Minitab ISSUED=01-dec-2018 BORROW=26280 \ NOTICE=Customer ID: 0123 License Coord ID: 56789 \ RENI01234" SN="STDORD56789 0123INC" START=01-dec-2018 \ SIGN="1C71 F7B8 641F 7A84 F052 9650 F5E6 B093 ACBC 04C4 AF4D \ 53B9 0F38 C5FB DF49 1720 F1BA D1CD 646D 4C9D 824B E7A9 F724 \ 3ED9 9B09 5628 733F F646 AC87 6C39"
INCREMENT companion minitab 5 01-dec-2020 8 VENDOR_STRING="limited term, limited users, borrowing enabled" DUP GROUP=UH \ ISSUE=Minitab ISSUED=01-dec-2018 BORROW=26280 \ NOTICE=Customer ID: 0123 License Coord ID: 56789 \ RENI01234" SN="STDORD31415 0123INC" START=01-dec-2018 \ SIGN="1EA6 00D1 E785 EEA9 F026 63B5 BBA0 B8B0 CAB9 \ 91CA A57A D123 D9DD 0372 A1CD 136F 12F4 ABCB EA0A 3AD9 A71F \ F014 7B78 A683 6EB2 FCC6 9685 0D66 6355 441C"
```
To append additional users to a license file

You may need to be logged in as an administrator to perform the following steps.


2. Save the new license file. Do not overwrite the existing license file in the following folder:
   - On a PC: C:\Program Files (x86)\Minitab\License Manager
   - On a Mac: /Library/Application Support/Minitab/LicenseManager

3. Open the new license file for the additional users in a text editor.

4. Copy everything from the INCREMENT line down.

5. Close the new license file.

6. In a text editor, open the original license file from the following folder:
   - On a PC: C:\Program Files (x86)\Minitab\License Manager
   - On a Mac: /Library/Application Support/Minitab/LicenseManager

7. Paste the copied contents of the new license file to the end of the original license file.


9. Restart the Minitab License Manager service.
   - On a PC: See To restart Minitab License Manager on a PC on page 10
   - On a Mac: Double-click the Restart License Manager command script file. You may be prompted to enter your password. The script will restart the license manager. See To restart Minitab License Manager on a Mac on page 10

10. Verify your changes.
    - On a PC: Double-click lmtools.exe in the installation directory (by default, C:\Program Files (x86)\Minitab\License Manager). Click the Server Status tab, then click Perform Status Inquiry.
    - On a Mac: Open a terminal window, then type the command: lmutillmstat-c"/Library/Application Support/Minitab/LicenseManager/minitab.lic" -a

11. Look for the line that includes Total of x licenses issued and confirm that x is equal to the total number of licenses (original + added).

Example of a license file with appended users

SERVER this_host 0A1B2C3D4E5F
VENDOR minitab
USE_SERVER
INCREMENT Minitab minitab 19 01-dec-2020 100 VENDOR_STRING="limited term, limited users, borrowing enabled" DUP_GROUP=UH \ NOTICE="Customer ID: 01234 License Coord ID: 56789 BEGIN="SN="STDORD56789 01234INC" START=01-dec-2018 \ SIGN="1c71 F7B8 641F 7A84 F052 9650 F5E6 B093 ACBC 04C4 AF4D 5B3B 0F38 C3FB DF49 1720 F1BA D1CD 646D 4C9D 824B E7A9 F724 \ 3EAD 9B09 5628 733F F646 ACB7 6C39"
INCREMENT Minitab minitab 19 01-dec-2020 25 VENDOR_STRING="limited term, limited users, borrowing enabled" DUP_GROUP_UH \ ISSUER=Minitab ISSUED=01-dec-2018 BORROW=26280 \ NOTICE="Customer ID: 01234 License Coord ID: 56789 BEGIN="SN="STDORD31415 01234INC" START=01-dec-2018 \
Renewing licenses

To avoid “checkout failed” error messages that are caused by expired license files, renew your organization's Minitab license before it expires. Minitab will not start if the license is expired.

1. Your organization's License Coordinator must purchase a new license for your organization.

2. To generate license files that have a new expiration date, an authorized user must log in at https://it.minitab.com/support/licensing/multi-user/customer-entitlement-summary.aspx
   - To generate license files based on your existing license configuration, click Renew (Copy) Previous File.
   - To generate license files based a new license configuration, see Step 3: Create license file(s) on page 5.

3. You may need to be logged in as an administrator to perform the following steps.
   - On a PC: Replace the existing license file with the new license file in C:\Program Files (x86)\Minitab\License Manager, then restart Minitab License Manager. See To restart Minitab License Manager on a PC on page 10 for more information.
   - On a Mac: See To restart Minitab License Manager on a Mac on page 10 for more information.

License manager utility

Flexera Software provides a utility for performing license management tasks. You can use this license manager utility to check the status of Minitab License Manager and to help you monitor network licensing activities, such as the number of licenses in use and who is using them. You can also review configuration settings. See Check Minitab License Manager status and settings on page 29 for more information.

- On a PC: The lmtools.exe utility provides a graphical user interface to access all the license management tasks. To use LMTOOLS, navigate to the license manager installation folder (C:\Program Files (x86)\Minitab\License Manager by default) and double-click lmtools.exe.
- On a Mac: The lmutil utility is a command line tool that must be run in a Terminal window. This utility can be found in: /Library/Application Support/Minitab/LicenseManager.

For more information about the license manager utility, refer to the FlexNet Publisher License Administration Guide distributed by Flexera Software LLC.

Specifying ports

Minitab uses two ports for communication between the workstation and the server: the license manager (lmgrd) port and the vendor daemon (minitab) port. You can modify the license file to specify which port numbers Minitab should use.

Specifying ports manually is useful when you need to identify them as open ports on firewalls. When communication appears to be blocked, configure these open ports on any firewall on or between the workstation and server, including software firewalls, such as Windows or macOS firewalls. See FLEXnet error 96 on page 31 for more information.

You can specify both the license manager and vendor daemon ports in the same license file. Make a backup of your license file before you edit it.
To specify a license manager port

The license manager (lmgrd) automatically chooses the first available port between 27000 and 27009 each time the Minitab License Manager service starts. You can set this port number to a permanent value.

You may need to be logged in as an administrator to perform the following steps.

1. In a text editor, open the license file.
   - On a PC: C:\Program Files (x86)\Minitab\License Manager
   - On a Mac: /Library/Application Support/Minitab/LicenseManager

2. Type the port number after the MAC address on the first line. Leave a space between the MAC address and port number, as shown in the example below step 7.

3. Save the file.

4. Restart the Minitab License Manager service to re-read the license file.
   - On a PC: See To restart Minitab License Manager on a PC on page 10
   - On a Mac: See To restart Minitab License Manager on a Mac on page 10

5. Verify your changes.
   - On a PC: In a text editor, open the Minitab License Manager log file, minitab.dl, which is located at C:\ProgramData\Minitab\License Manager.
   - On a Mac: In a text editor, open the Minitab License Manager log file, out.txt, which is located at /Library/Application Support/Minitab/LicenseManager/log.

6. Locate the line that includes lmgrd tcp-port.

7. Make sure that the port number on this line is correct. For example, lmgrd tcp-port 27001.

Example of license file with specified license manager port of 27001:

```
SERVER this_host 0A1B2C3D4E5F 27001
VENDOR minitab
USE_SERVER
INCREMENT Minitab minitab 19 01-dec-2020 100 VENDOR_STRING="limited term, limited users, borrowing enabled" DUP_GROUP=UH
ISSUER=Minitab ISSUED=01-dec-2018 BORROW=26280
NOTICE="Customer ID: 01234 License Coord ID: 56789 RENI01234" SN="STDORD56789 01234INC" START=01-dec-2018
SIGN="1C71 F7B8 641F 7A84 F052 9650 F5E6 B093 ACBC 04C4 AF4D 5B3B 0F38 C3FB DF49 1720 F1BA D1CD 646D 4C9D 824B E7A9 F724 3EDA 9B09 5628 733F F646 AC87 6C39"
```

To specify a vendor daemon port

The vendor daemon (minitab) port is dynamically assigned from a wide range of port numbers each time the Minitab License Manager service starts. You can set this port number to a permanent value.

You may need to be logged in as an administrator to perform the following steps.

1. In a text editor, open the license file:
   - On a PC: C:\Program Files (x86)\Minitab\License Manager
   - On a Mac: /Library/Application Support/Minitab/LicenseManager

2. Type port= and the port number at the end of the second line (“port” is case-sensitive). Leave a space between minitab and port=.

Example of license file with specified vendor daemon port of 1234:

```
SERVER this_host 0A1B2C3D4E5F 27001
VENDOR minitab
USE_SERVER
INCREMENT Minitab minitab 19 01-dec-2020 100 VENDOR_STRING="limited term, limited users, borrowing enabled" DUP_GROUP=UH
ISSUER=Minitab ISSUED=01-dec-2018 BORROW=26280
NOTICE="Customer ID: 01234 License Coord ID: 56789 RENI01234" SN="STDORD56789 01234INC" START=01-dec-2018
SIGN="1C71 F7B8 641F 7A84 F052 9650 F5E6 B093 ACBC 04C4 AF4D 5B3B 0F38 C3FB DF49 1720 F1BA D1CD 646D 4C9D 824B E7A9 F724 3EDA 9B09 5628 733F F646 AC87 6C39"
INCREMENT minitab minitab 1234 01-dec-2020 100 VENDOR_STRING="limited term, limited users, borrowing enabled" DUP_GROUP=UH
ISSUER=Minitab ISSUED=01-dec-2018 BORROW=26280
NOTICE="Customer ID: 01234 License Coord ID: 56789 RENI01234" SN="STDORD56789 01234INC" START=01-dec-2018
SIGN="1C71 F7B8 641F 7A84 F052 9650 F5E6 B093 ACBC 04C4 AF4D 5B3B 0F38 C3FB DF49 1720 F1BA D1CD 646D 4C9D 824B E7A9 F724 3EDA 9B09 5628 733F F646 AC87 6C39"
```
3. Save the file.

4. Restart the Minitab License Manager service to re-read the license file.
   - On a PC: See *To restart Minitab License Manager on a PC* on page 10
   - On a Mac: See *To restart Minitab License Manager on a Mac* on page 10

5. Verify your change.
   - On a PC: In a text editor, open the Minitab License Manager log file, minitab.dl, which is located at `C:\ProgramData\Minitab\License Manager`.
   - On a Mac: In a text editor, open the Minitab License Manager log file, out.txt, which is located at `/Library/Application Support/Minitab/LicenseManager/log`.

6. Locate the line that includes `minitab using TCP-port`.

7. Make sure that the port number on this line is correct. For example, `minitab using TCP=port 3000`.

Example of license file with specified vendor daemon port of 3000:
```
SERVER this_host 0A1B2C3D4E5F
VENDOR minitab port=3000
USE_SERVER
INCREMENT Minitab minitab 19 01-dec-2020 100 VENDOR_STRING="limited term, limited users, borrowing enabled" DUP GROUP=UH
ISSUER=Minitab ISSUED=01-dec-2018 BORROW=26280
NOTICE="Customer ID: 01234 License Coord ID: 56789 REN101234" SN="STDORD56789 01234INC" START=01-dec-2018
SIGN="1C71 F7B8 641F 7A84 F052 9650 F5E6 B093 ACBC 04C4 AF4D
```

**Options file**

You can use the options file to control various license system options for Minitab License Manager, such as reserving or excluding licenses for a person or group.

**To use an options file**

You may need to be logged in as an administrator to perform the following steps.

1. In a text editor, open a new file.

2. Type your settings with the appropriate syntax, as documented in the FlexNet Publisher License Administration Guide distributed by Flexera Software LLC. See the bottom of this topic for an example options file.

3. Choose *File > Save As* and browse to the same folder as minitab.lic.
   - On a PC: `C:\Program Files (x86)\Minitab\License Manager`
   - On a Mac: `/Library/Application Support/Minitab/LicenseManager/Log`

4. Save the file with the following file name: `minitab.opt`

5. Restart the Minitab License Manager service.
   - On a PC: See *To restart Minitab License Manager on a PC* on page 10
   - On a Mac: See *To restart Minitab License Manager on a Mac* on page 10
6. To verify that the options file is successfully implemented, do the following:
   • On a PC: In a text editor, open the Minitab License Manager log file, minitab.dl, which is located at `C:\ProgramData\Minitab\License Manager`.
   • On a Mac: In a text editor, open the Minitab License Manager log file, out.txt, which is located at `/Library/Application Support/Minitab/LicenseManager/log`.

7. Locate the line that includes `Using options file:<path_to_options_file>`. If this text is present, the options file has been successfully implemented.

If a minitab.opt is present, the Minitab License Manager service reads it and implements the settings in the file.

In the following example of an options file, line 1 prevents the user “tjones” from using Minitab. Line 2 prevents the same user from using Companion. Line 3 creates a group named “quality” and defines members of that group. Line 4 reserves three licenses for the quality group. Line 5 specifies that 5 licenses cannot be borrowed.

```
EXCLUDE Minitab USER tjones
EXCLUDE companion USER tjones
GROUP quality jsmith bmiller awilson
RESERVE 3 minitab GROUP quality
BORROW_LOWWATER minitab 5
```
Client Installation Options

- On a PC only, choose the default language for the specific version of Minitab.
- Choose a license type (single-user, multi-user, or trial).
- Optionally, change the destination folder. By default, Minitab is installed to the following folder:
  - On a PC: C:\Program Files\Minitab\Minitab {version number}
  - On a Mac: /Applications

Checking for updates on a PC

Checking for updates is enabled by default. An automatic check occurs upon every launch of the product, and each user is able to manually check for updates at any time. You can set an optional property during deployment to disable checking for updates. See Deploying Minitab on a PC on page 22 for additional details.

To manually check for updates

1. Open Minitab.
2. Choose Help > Check for Updates.
3. If an update is available, follow the instructions to update your software.

To disable checking for updates

1. Open a command prompt as an administrator and type control appwiz.cpl.
2. Select Minitab and then click Uninstall/Change. You might be prompted for an administrator password or confirmation.
3. In the Minitab Setup dialog box, select Change.
4. Uncheck Enable checking for software updates.
5. Click Next, and then click Install.

Note If you choose to remove or disable checking for updates, you will not be automatically informed of critical updates, bug fixes, or notifications of problems or errors.

Checking for updates on a Mac

Checking for updates is enabled by default. An automatic check occurs upon every launch of the product, and each user is able to manually check for updates at any time. During deployment you can optionally disable checking for updates. See Deploying Minitab on a Mac on page 20 for additional details.

1. Open Minitab.
2. Choose Minitab > Check for Updates.
3. If an update is available, follow the instructions to update your software.
Changing license types

A valid license is required to use Minitab. There may be times when it is necessary to switch from one license type to another. For example, you change your license type when you switch from a trial license to a multi-user license utilizing a license server.

To change license type on a PC:
1. Open a command prompt as an administrator and type control appwiz.cpl.
2. Select Minitab and then click Uninstall/Change. You might be prompted for an administrator password or confirmation.
3. In the Minitab Setup dialog box, select Change.
4. Select Change License Type.
5. Click Next and enter the required licensing information.

To change license type on a Mac:
1. Choose Minitab > License and click License options.
2. Select Change your licensing method and click Next.
3. Follow the remaining prompts to complete the change.

Deploying Minitab on a Mac

1. Copy the Minitab package to the location from which you are deploying the software.
2. Use the deployment method of your choice to deploy Minitab for macOS.
3. To ensure that end-users do not need to enter the license information when they launch Minitab, complete the following steps:
   a. After installing Minitab, locate the following script: /Library/Application Support/Minitab/Minitab (version number)/Mtb_ConfigureLicensing.command.
   b. With Administrator or Root permissions, execute the Mtb_ConfigureLicensing.command script depending on how you plan to license the software.

   **License Server**
   To license Minitab with a license server, specify 'server' and @'YourServerIPAddress':
   
   ```bash
   Mtb_ConfigureLicensing.command server @192.168.0.10
   ```
   
   To specify multiple license servers, use the following server syntax:
   ```bash
   port@server1:port@server2:port@server3
   ```

   **License File**
   To license Minitab with a license file, specify 'file' and 'location/of/license/file/minitab.lic':
   
   ```bash
   Mtb_ConfigureLicensing.command file FullyQualifiedPath/minitab.lic
   ```

   **Product Key**
   To license Minitab with a product key, specify 'key' and 'product key':
   
   ```bash
   Mtb_ConfigureLicensing.command key 111111111111111111
   ```

   **Note** When using spaces or special characters, be sure to enclose the parameters in quotes.

---

**Managing Check for Updates preferences**

After installing Minitab, locate the following script /Library/Application Support/Minitab/Minitab (version number)/Mtb_ConfigureUpdates.command. With Administrator or Root permissions, execute the Mtb_ConfigureUpdates.command script with one of the following parameters:

- **disable**
  
  Does not allow the software to check for updates. This is the default option. Executing the script without a parameter will disable checking for updates.

- **enable**
  
  Allows the software to check for updates.

- **display**
  
  Shows the current preference.

- **help**
  
  Provides instructions for executing the command.

**Note** If you choose to remove or disable checking for updates, you will not be automatically informed of critical updates, bug fixes, or notifications of problems or errors.

---

**Uninstalling Minitab on a Mac**

You can use the script provided to remove Minitab from the client computer. With Administrator or Root permissions, execute the following script: /Library/Application Support/Minitab/Minitab (version number)/Mtb_uninstall.command
### Deploying Minitab on a PC

You can use the command line to install Minitab on the client computer. To do so, you must specify the license information for each installation using the appropriate command line syntax. The following tables outline properties and switches that can be used for command line or mass deployment to your end-users.

### EXE Switch Table

<table>
<thead>
<tr>
<th>Command Line Switch</th>
<th>Accepted Values</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/exelang</td>
<td>1031 1033 1034 1036 1041 1042 1046 2052</td>
<td>Specify the default language of the installation and application. If language is not specified, the installer will use your system regional settings for the default language, or default to English if a match is not found. 1031=German 1033=English 1034=Spanish 1036=French 1041=Japanese 1042=Korean 1046=Portuguese 2052=Simplified Chinese</td>
</tr>
</tbody>
</table>

 /exenoui Required for a silent install. Use with appropriate MSI switch for modified end-user experience (e.g., /qn, /qb, /passive).

### MSI Switch Table (Common)

<table>
<thead>
<tr>
<th>Command Line Switch</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/passive</td>
<td>Basic user interface, progress bar only</td>
</tr>
<tr>
<td>/qn</td>
<td>Quiet, no user interface</td>
</tr>
<tr>
<td>/qb</td>
<td>Basic user interface, the Cancel button will be active during installation</td>
</tr>
<tr>
<td>/qr</td>
<td>Reduced user interface, the Cancel button will be active during installation</td>
</tr>
</tbody>
</table>

### Property Table

<table>
<thead>
<tr>
<th>Property</th>
<th>Accepted Values</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPDIR</td>
<td></td>
<td>Specify a custom installation directory.</td>
</tr>
<tr>
<td>ACCEPT_EULA</td>
<td>1</td>
<td>Required property. By specifying a value for this property, you accept the terms of the end-user license agreement and privacy policy.</td>
</tr>
<tr>
<td>Property</td>
<td>Accepted Values</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>--------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>LICENSE_SERVER</td>
<td>Server name or IP address</td>
<td>For use with a multi-user license to specify the server that hosts Minitab License Manager.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Not compatible with PRODUCT_KEY or FILE_LOC.</td>
</tr>
<tr>
<td>LICENSE_SERVER_PORT</td>
<td>27000 to 27009</td>
<td>For use with a multi-user license to optionally specify the listening port for the Minitab License Manager server.</td>
</tr>
<tr>
<td>PRODUCT_KEY</td>
<td>18-digit Product Key</td>
<td>Single-user licenses can be optionally activated by specifying a Product Key. Without specifying a product key, a 30-day trial will be installed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Not compatible with LICENSE_SERVER or FILE_LOC.</td>
</tr>
<tr>
<td>FILE_LOC</td>
<td>Fully qualified path to license file, including filename</td>
<td>An alternative license mechanism using a file. Not intended for use with a standalone license configuration utilizing the Minitab License Manager.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Not compatible with LICENSE_SERVER, LICENSE_SERVER_PORT, or PRODUCT_KEY.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Corresponds to the location of your minitab.lic file.</td>
</tr>
<tr>
<td>Property</td>
<td>Accepted Values</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>DISABLE_ANALYTICS</td>
<td>0 or 1</td>
<td>With consent, Minitab collects application analytics to help us better understand our customers’ needs. Examples of application analytics include:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Product information, including the types of files that are imported, the types and frequency of tools and commands, project characteristics, such as the amount of data and number of worksheets, and the frequency and duration of use.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Performance information about Minitab products and/or services and any issues you may experience while using them.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note: Minitab does not collect any user-entered data or statistical results.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Settings:</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• To enable application analytics, enter 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• To disable application analytics, enter 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If you do not enter a value for this property now, you can do it later when you launch the application.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If you are deploying software on behalf of your end users, these settings will apply to their installations:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 0 allows the end user to enable or disable application analytics on their computer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 1 automatically disables application analytics for all end users</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Note: These settings do not prevent Minitab from collecting other types of data from its websites and products, such as data necessary for managing licenses or accessing online Help. For more information, view our Privacy Policy.</td>
</tr>
</tbody>
</table>
### Command Line Details

1. You must use the /exenoui switch when you use /qn, /qb, or /passive.

2. Verify that command line switches are in correct order.
   - EXE switches must precede MSI switches.
   - MSI switches must precede MSI properties.

3. If you do not specify licensing properties (PRODUCT_KEY, LICENSE_SERVER, or FILE_LOC), a 30-day trial will be installed.

4. If you have a previous version of Minitab installed, the existing values will be used for APPDIR, LICENSE_SERVER, LICENSE_SERVER_PORT, and PRODUCT_KEY, if they are not specified during the upgrade.

### Required Syntax

Use the following syntax: `productV.v.vvversion.xOS.exe`, where
- Lowercase `product` is the name of the software,
- Uppercase `V` indicates the major release number of the software;
- Lowercase `v` (up to 3) indicates an update to the major release of the software; and
- `OS` indicates the operating system.

For example: `minitab19.3.1.2setup.x64.exe` [EXE Switch Table] [MSI Switch Table] [Property Table]

When deploying Minitab, be sure to reference the setup file or the group policy file specific to the operating system. For example:

**64-bit syntax**

`minitab19.3.1.2setup.x64.exe`

`minitab19.3.1.2setup.GroupPolicy.x64.msi`
32-bit syntax
minitab19.3.1.2setup.x86.exe
minitab19.3.1.2setup.GroupPolicy.x86.msi

Examples

Note The following examples do not contain line breaks.

Install silently, English default language, and multi-user license:
productV.v.v.vsetup.xOS.exe /exenoui /exelang 1033 /qn ACCEPT_EULA=1 LICENSE_SERVER=MyServerName

Install silently, English default language, and license file:
productV.v.v.vsetup.xOS.exe /exenoui /exelang 1033 /qn ACCEPT_EULA=1 FILE_LOC="c:\minitab.lic"

Install silently, Simplified Chinese default language, multi-user license setting server and port, and checking for updates disabled:
productV.v.v.vsetup.xOS.exe /exenoui /exelang 2052 /qn ACCEPT_EULA=1 LICENSE_SERVER=MyServerName LICENSE_SERVER_PORT=27000 DISABLE_UPDATES=1

Install silently, Portuguese default language, single-user license with product key, and custom installation directory:
productV.v.v.vsetup.xOS.exe /exenoui /exelang 1046 /qn ACCEPT_EULA=1 PRODUCT_KEY=123456789012345678 APPDIR="c:\New Folder"

Install silently, German default language, and single-user license 30-day trial:
productV.v.v.vsetup.xOS.exe /exenoui /exelang 1031 /qn ACCEPT_EULA=1

Upgrade Minitab silently:
productV.v.v.vsetup.xOS.exe /exenoui /qn ACCEPT_EULA=1

Uninstall silently using the Minitab product code:
msiexec /x {Product Code} /qn

Group policy usage

The MSIs in the GroupPolicy folder of the Mass Deployment Package should be used only for Group Policy deployment methods. Use the Group Policy MSIs in conjunction with repackaging tools to ensure that Properties are set correctly for the required configuration.

• To install Minitab with English as the default language, use productV.v.v. setupGroupPolicy.xOS.English.msi.
• To install Minitab with a non-English default language, use productV.v.v. setupGroupPolicy.xOS.MultiLanguage.msi.

The ProductLanguage Property must be set to a supported language value. For a list of supported language values, refer to the Property table.
Identical settings on multiple computers

To ensure that multiple computers have identical Minitab settings, you can use File > Manage Profiles to create and export a preinstall profile as a registry file named OrgDefs.reg and include it with the installation files.

This process requires that you open Minitab with its original (unmodified) profile settings. Therefore, it is recommended that you log in to your computer as a user that has not previously modified Minitab profile settings.

To implement a preinstall profile

1. Open Minitab on a computer that does not have any modified profile settings. If you are unsure whether the profile settings have been modified, open Minitab using an administrator account that has not previously been used to open Minitab.

2. Adjust any settings that you want to share on multiple computers.

3. Choose File > Manage Profiles.

4. Click the arrow to move MyProfile from Active profiles to Available profiles. (To be exported, profiles must be under Available profiles.)

5. With the profile selected, click Export.

6. In Save In, browse to the save location.

7. In File name, rename MyProfile to OrgDefs.reg. Click Save.

8. You need to deploy OrgDefs.reg to the user’s C:\Program Files\Minitab\Minitab {version number}\Language\Profiles folder.

Note: You must copy or deploy a custom profile to each user’s Minitab {version number}\Language\Profiles folder after installing but before opening Minitab for the first time. The Program Files (x86) folder is protected. If you have installed Minitab to this protected area (which is the default), the profile must be copied to the Minitab {version number}\Language\Profiles folder by a user with administrative privileges for all system users to have access to it.

When a user opens Minitab for the first time, the file is imported. The imported profile is named $$OrganizationDefaults.
Troubleshooting

This section provides information for troubleshooting problems related to licensing and installing Minitab products.

Log files

You can generate log files to use for troubleshooting with both Minitab and Minitab License Manager.

Installation log file

The installation log file contains information such as the time and date of installation and the folder to which the software was installed.

- On a PC: An installation log file can be created by utilizing the following command: `productV.v.v.vsetup.xOS.exe /exenoui /qn /l*v c:\Install.log ACCEPT_EULA=1 LICENSE_SERVER=MyServerName`
- On a Mac: The installation process writes log information to the Console application. In the left pane, look under `FILES > /var/log` and select `install.log`.

Update log file (Mac only)

Minitab update operations will write error information to a log file. This information will go into one of two logs:

- `~/Library/Logs/SparkleUpdateLog.log`
  - You can also access this log information in the Console application. In the left pane, choose `FILES > ~/Library/Logs`, then select `SparkleUpdateLog.log`.
- Console log
  - Under `SYSTEM LOG QUERIES`, select `All Messages`.

To isolate the log messages:
1. Open the Console application.
2. Select the associated log area.
3. Select `Clear Display` from the title bar.
4. Perform the update operation.
5. The log will show messages associated with the update operation.

Minitab License Manager log file

Minitab License Manager is the server software that controls the use of your license. It generates a log file that is updated with events, such as license check-ins, check-outs, and error messages.

- On a PC: The log file is named `Minitab.dl` and is located at `C:\Programdata\Minitab\LicenseManager`.
- On a Mac: The log file is named `out.txt` and is located at `/Library/Application Support/Minitab/LicenseManager/Log`.

To read the Minitab License Manager log file, open it in a text editor.
To reset the size of the Minitab License Manager log file (for example, when it gets too large), restart Minitab License Manager. For more information, see To restart Minitab License Manager on a PC on page 10 or To restart Minitab License Manager on a Mac on page 10.

Note For detailed information on the Minitab License Manager log file, refer to the FlexNet Publisher License Administration Guide distributed by Flexera Software LLC.

Check Minitab License Manager status and settings

You can check the status of Minitab License Manager to help you monitor network licensing activities, such as the number of licenses in use and who is using them. You can also review configuration settings.

On a PC

1. Navigate to the Minitab License Manager folder (by default, at C:\Program Files (x86)\Minitab\License Manager).
2. Double-click lmtools.exe.
3. Do any of the following:
   - To check server status, click the Server Status tab. Click Perform Status Enquiry.
   - To check server configuration, click the Config Services tab.
   - To check license information, click the Server Diags tab. Click Perform Diagnostics.

   The number of licenses are listed, as shown in this example:

   Users of Minitab: (Total of 50 licenses used; Total of 33 licenses in use)

   Specific details about each license are also listed:

   jsmith LAB_PCLAB_PC (v1.0)(LAB_PC/27000 302), start Fri 3/1 4:15

   jsmith is the user name, LAB_PC is the computer name, and 27000 is the license manager port.

   Borrowed licences display the expiration in seconds. For example, the license below will expire in 314159 seconds:

   jsmith LAB_PCLAB_PC (v1.0)(LAB_PC/27000 302), start Fri 3/1 4:15 (linger: 314159)

On a Mac

1. Create a new Terminal window.
2. To navigate to the Minitab License Manager folder, type: cd Library/Application Support/Minitab/LicenseManager
3. Type the following command: lmutil lmstat -c minitab.lic -a
4. You will see a list of the licenses that are available and currently in use.

   Note You may also be able to enter the following command in a Terminal window, from any location, to see the same information:

   lmutil lmstat -a

   For example, if you have 50 total licenses and 33 are in use, you will see this information:

   Users of minitabexpress: (Total of 50 licenses used; Total of 33 licenses in use)

   Specific details about each license are also listed:

   jsmith LAB_MAC (v1.0)(LAB_MAC/27000 302), start Fri 3/1 4:15

   jsmith is the user name, LAB_MAC is the computer name, and 27000 is the license manager port.
FLEXnet license errors

You may encounter several types of FLEXnet error messages that indicate that you cannot check out a license. These messages are formatted in general as follows:
FLEXNET License Error Number: Error text.

For example:
FLEXNET License Error -97-121-0: Check out failed

Some of the errors that you may encounter are listed below. For a complete list of possible error codes, see the FlexNet Publisher License Administration Guide.

FLEXnet error 15

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>The server name that was provided during the installation of Minitab on the</td>
<td>The server name that was provided during the installation of Minitab on the client computer is used to locate that server on the network. Make sure that the server name is valid. For instructions on locating the server name, see <a href="https://support.minitab.com/installation/frequently-asked-questions/minitab-license-manager/change-default-location-where-minitab-companion-look-for-license-manager/">https://support.minitab.com/installation/frequently-asked-questions/minitab-license-manager/change-default-location-where-minitab-companion-look-for-license-manager/</a>.</td>
</tr>
<tr>
<td>client computer is not valid.</td>
<td></td>
</tr>
</tbody>
</table>

FLEXnet error 25

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>You are using Minitab with an invalid license file.</td>
<td>The license file that is managed by Minitab License Manager supports some other Minitab product. To resolve this, you need to create a new license file for Minitab.</td>
</tr>
</tbody>
</table>

FLEXnet error 34

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>The date differs in excess of 24 hours between the client computer and the</td>
<td>If the date difference is greater than 24 hours, Minitab License Manager will refuse to grant the license. Reset the clock on the client computer.</td>
</tr>
<tr>
<td>Minitab License Manager server.</td>
<td></td>
</tr>
</tbody>
</table>

FLEXnet error 68

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>The license file is not configured to allow for borrowing.</td>
<td>Not all licenses are borrow-enabled. Borrow-enabled licenses will have &quot;borrow-enabled&quot; within the text of the license file.</td>
</tr>
</tbody>
</table>
## FLEXnet error 92

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>The MAC address in the license file does not match the MAC address of the Minitab License Manager server.</td>
<td>The MAC address in the license file must match the MAC address of an enabled network adapter on Minitab License Manager. See <a href="#">License Files</a> on page 11 for more information.</td>
</tr>
</tbody>
</table>

## FLEXnet error 95

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>You are browsing to a license file in a standalone configuration.</td>
<td>Your license type may not support this method. In the Find License dialog box, instead of choosing <strong>Specify the License File</strong>, choose <strong>Specify the License Server System</strong>. Type the server name. For example, type @localhost.</td>
</tr>
</tbody>
</table>

## FLEXnet error 96

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firewalls or network configurations are blocking communications between the client computer and the Minitab License Manager server.</td>
<td>The client computer must be able to communicate with the Minitab License Manager server over two ports: the Minitab License Manager (lmgrd.exe) port and the minitab vendor daemon (minitab.exe) port. You can use telnet to test communications. See the Minitab License Manager log file on page 28 to determine which port numbers are used. See <a href="#">Specifying ports</a> on page 15 to manually configure ports. The Minitab License Manager service is not running on the license server.</td>
</tr>
</tbody>
</table>

## FLEXnet error 97

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>The MAC address in the license file does not match the MAC address of the Minitab License Manager server.</td>
<td>The MAC address in the license file must match the MAC address of an enabled network adapter on Minitab License Manager. See <a href="#">License Files</a> on page 11 for more information. The license expired.</td>
</tr>
<tr>
<td>The network adaptor on the Minitab License Manager server is disabled.</td>
<td>The expiration date for your license is specified in the license file. Minitab is not usable after the expiration date. See <a href="#">License Files</a> on page 11 for more information. The network adaptor card must be enabled for the Minitab License Manager server to verify the MAC address. Without this, Minitab cannot start. This issue is most commonly encountered with laptop computers that may change the status of a network card under various conditions.</td>
</tr>
</tbody>
</table>
### FLEXnet error 104

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>You attempt to borrow a license that is past either the expiration date in the license file or a set limit in the options file.</td>
<td>You cannot borrow a license that is past the expiration date of the license file. If the specified end date for borrowing is before the expiration date, the options file may contain limits on borrowing. See Options file on page 17 for more information.</td>
</tr>
</tbody>
</table>

### Minitab License Manager fails to start

**On a PC**

If the Minitab License Manager service fails to start, you may see the following error message:

The Minitab License Manager service on Local Computer started and then stopped. Some services stop automatically if they have no work to do, for example, the Performance Logs and Alerts Services.

Use the following table to troubleshoot the problem:

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>The license file (minitab.lic) is not in the Minitab License Manager installation directory.</td>
<td>Minitab License Manager browses to C:\Program Files (x86)\Minitab\License Manager for the license file. Ensure that minitab.lic is at this location.</td>
</tr>
<tr>
<td>The license file is not named correctly.</td>
<td>The license file must be named &quot;minitab.lic&quot; (unless this default value was modified later). Make sure that the file is not named minitab.lic.txt (a common mistake). Confirm that the file does not end with .txt. Right-click the file, choose Properties, and verify that Type of file is License and not Text Document.</td>
</tr>
</tbody>
</table>
## Possible cause

<table>
<thead>
<tr>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra text is in the license file.</td>
</tr>
<tr>
<td>Some text editors, such as WordPad, may add unwanted content to your file. See Sample license file on page 11 for an example of a license file with no unnecessary text. Open the file in Notepad.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minitab License Manager does not have permission to write the log file (minitab.dl) to the directory specified in the Config Services tab of LMTOOLS.</td>
</tr>
<tr>
<td>By default, Minitab License Manager creates minitab.dl in C:\Programdata\Minitab\LicenseManager. You can specify a different directory with LMTOOLS (lmtools.exe). Make sure that the account that runs the Minitab License Manager service has write access to this directory.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Minitab License Manager server has non-ANSI characters in its name.</td>
</tr>
<tr>
<td>For best results, install Minitab License Manager to a computer with only ANSI characters in its name.</td>
</tr>
</tbody>
</table>

## On a Mac

The Minitab License Manager service may fail to start. You can use the Activity Monitor app to check if the daemons are running:

1. Run the Activity Monitor application (for example, type Activity Monitor into Spotlight).
2. Select View > All Processes to show all processes.
3. Click the Process Name header in the list to sort the results by process name.
4. Look for processes titled lmgrd and minitab. Both should be running. There may be multiple lmgrd processes running, depending on what other apps are on your system.

If the processes are not running, look in the Console log for any error messages that occurred during startup. You can also run the Restart License Manager command script in /Library/Application Support/Minitab/LicenseManager to attempt to restart the license manager processes. Also, view the Console log at this time to look for errors.

## Possible cause

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>The license file (minitab.lic) is not in the installation directory.</td>
</tr>
<tr>
<td>Minitab License Manager expects the license file to be in /Library/Application Support/Minitab/LicenseManager. If the license file is not in this location, re-install Minitab License Manager. You will be prompted for your license file again.</td>
</tr>
</tbody>
</table>

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<tbody>
<tr>
<td>The license file is not named correctly.</td>
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<td>The license file must be named &quot;minitab.lic&quot; (unless this default value was modified later). Make sure that the file is not named minitab.lic.txt (a common mistake). Confirm that the file does not end with .txt.</td>
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<thead>
<tr>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra text is in the license file.</td>
</tr>
<tr>
<td>Some text editors may add unwanted content to your file. Also, make sure the file was not saved as a rich text document or that unnecessary UTF-8 characters were not added to the file.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Explanation</th>
</tr>
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<tr>
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</tr>
<tr>
<td>For best results, install Minitab License Manager to a computer with only ANSI characters in its name.</td>
</tr>
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</table>
Web site errors

Access Denied

If you try to log in to the Minitab multi-user license management web pages and you are not an authorized user, the Access Denied error message may appear. For more information, see Step 1: Designate authorized users of multi-user licensing web pages on page 4.

Unable to Proceed: Entitlements Not Available

If you log in to the multi-user license management web pages to create license files and there are no valid orders for your organization, the message Unable to Proceed: Entitlements Not Available appears. Contact your Minitab Sales Representative.

Online resources

The following online resources are available:

- Troubleshooting solutions at https://support.minitab.com/installation/
- The latest downloads for Minitab multi-user products at https://www.minitab.com/downloads/
- The latest documentation for Minitab multi-user products at https://www.minitab.com/support/documentation/
- The FlexNet Publisher License Administration Guide distributed by Flexera Software LLC at https://www.minitab.com/uploadedFiles/Documents/license-management/FlexNetLicenseAdminGuide.pdf
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