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Definitions & System Requirements

DEFINITIONS

4DM: the Corridor4DM application

Fixed License: Licenses only the local workstation to run 4DM. This license is specific to the workstation on which it resides, and 4DM will only run on this workstation.

Floating License: also known as a concurrent license, allows 4DM to be loaded on more computers than the number of licenses purchased. The maximum number of individuals using 4DM simultaneously is limited to the number of licenses purchased.

Client: Workstation installed with 4DM and configured with a floating license. It is configured to communicate with the License Manager to authenticate the license for running 4DM.

License Manager: Application that will authenticate concurrent/floating client license requests to run 4DM. Can be installed on any workstation or server - does not necessarily have 4DM installed in that same location, but it does have the License Manager software installed.

SYSTEM REQUIREMENTS

4DM LICENSE MANAGER

Supported Operating Systems	Windows 7 (64 bit) ¹ Windows 8 (64 bit) ¹ Windows 10 (64 bit) Windows 11 (64 bit)	Windows Server 2008 R2 ¹ Windows Server 2012 R2 Windows Server 2016 Windows Server 2019 Windows Server 2022
Processor	Speed: 2.0 GHz or greater; Cores: 4 (minimum), 8 (recommended)	
Memory	8 GB (minimum); 16 GB or more (recommended)	
Disk Storage	512GB or larger NVME hard drive (recommended); <i>NOTE: 2GB is required to install application</i>	
Video Card	256 MB of on board Video Memory (minimum); 1 GB (recommended) 3D graphic card supporting OpenGL 3.0 (minimum) or greater (4.1 recommended)	
Monitor	Up to four HD (1920x1080) monitor(s)	
Admin	Administrative privileges are required to run the installer, License Manager software, and the Software Licensing Service	
Network	License Manager must be installed on a computer or server connected to the Local Area Network.	
Firewall Exceptions	<p>The installation of the License Manager adds a firewall exception for the application rlm.exe titled INVIA Software Licensing. If this exception cannot be made, port exceptions are required for the following ports:</p> <ul style="list-style-type: none"> • 5053 – This port is needed for 4DM to request a license. • 5054 – This port is needed to run the Reprise License Server Administration user interface. • 5055 – This port is needed for 4DM to receive a license. 	
Virus Scan Exclusions	<p>Exclusions to include the following:</p> <ul style="list-style-type: none"> • C:\Program Files\INVIA\Licensing • C:\Program Files\INVIA\Licensing\INVIA.exe • C:\Program Files\INVIA\Licensing\RLM.exe 	

4DM PERSONAL

Supported Operating Systems	Windows 7 (64 bit) ¹ Windows 8 (64 bit) ¹ Windows 10 (64 bit) Windows 11 (64 bit)	Windows Server 2008 R2 ¹ Windows Server 2012 R2 Windows Server 2016 Windows Server 2019 Windows Server 2022
Processor	Speed: 2.0 GHz or greater; Cores: 4 (minimum), 8 (recommended)	
Memory	8 GB (minimum); 16 GB or more (recommended)	
Disk Storage	512GB or larger NVME hard drive (recommended); <i>NOTE: 2GB is required to install application</i>	
Video Card	256 MB of on board Video Memory (minimum); 1 GB (recommended) 3D graphic card supporting OpenGL 3.0 (minimum) or greater (4.1 recommended)	
Monitor	Up to four HD (1920x1080) monitor(s)	
Admin	Administrative privileges are required to run the installer, License Manager software, and the Software Licensing Service	
Firewall Exceptions	Port 104 - This port is used for DICOM transmission to the INVIA database.	
Virus Scan Exclusions	<p>Exclusions to include the following:</p> <ul style="list-style-type: none"> • C:\Program Files\INVIA\4DM\4DM.exe • C:\Program Files\INVIA\CorridorBrowser\CorridoSCPSvc.exe • C:\Program Files\INVIA\CorridorBrowser\CorridorSCP.exe • C:\Program Files\INVIA\CorridorBrowser\CorridorBrowser.exe • C:\Programdata\INVIA\CorridorBrowser • C:\Programdata\INVIA\4DM • C:\INVIA_CBD 	

NOTE: Verify that the License Server has a "Static IP"; otherwise if the IP changes the license file will become invalid.

¹These operating systems are not recommended as they are at or nearing end of life

4DM LICENSE MANAGER INSTALLATION PROCEDURE OVERVIEW

This section guides network administrators through the steps required to install and configure the 4DM License Manager. It also covers optional configurations for troubleshooting and license management. 4DM should be present in the integrated program being configured. Customers who purchased the stand-alone version of 4DM (Personal) can contact INVIA's support team from 8am to 5pm EST at 1-734-205-1231 ext. 1 or at support@inviasolutions.com to obtain the files needed for installation of 4DM

ACQUIRE A LICENSE

This step should **only** be done on the computer or server hosting the License Manager, if using a Fixed license skip to 4DM Personal Installation Procedure.

- Once you request and receive the 4DM Download files, download the C4DM Installer Package, unzip the folder, click on the **Install_4DM** application file. This will prompt the 4DM Installation dialogue window (Figure 1). Then select the **Launch Hardware ID Reader**. This will produce the Hardware ID needed to license 4DM.
- Write down or copy (Ctrl-C) and paste the Hardware ID generated by the Hardware ID Reader (Figure 2) into an email. (e.g., A15098C6-1FA7-4410-8A9C-69E558FDD996:01).
- Send **Hardware ID** to licenses@inviasolutions.com to receive a **server.lic** license file.
 - Resellers:** Use the 4DM Licensing Site to download licenses that have been ordered. Refer to Field Note: **Obtain a License**.

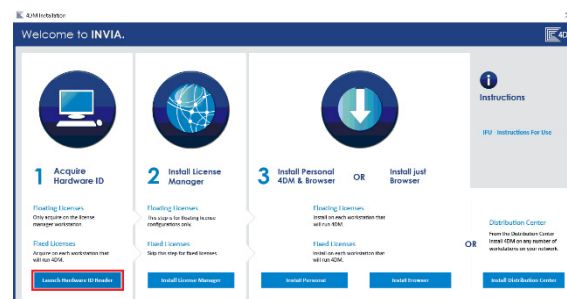


Figure 1: Acquire Hardware ID

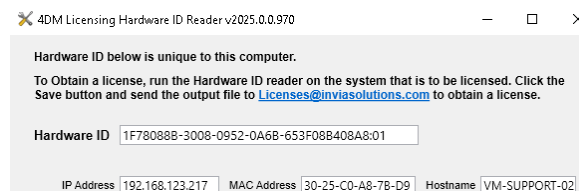


Figure 2: Copy / Write down the Hardware ID

- Save and note the location of the file as this will need to be placed in the following directory C:\Users\Public\Documents\INVIA\Licensing (to be used after 4DM installation).

INSTALL THE LICENSE MANAGER SOFTWARE

- Select step 2: **Install License Manager** as seen in the 4DM Installation (Figure 3).
- Select **Yes** to permit the User Account Control to run 4DM_Licensing_Installer (Figure 4)
- Follow the steps in the 4DM Licensing installation script to finish the installation (Figure 5).

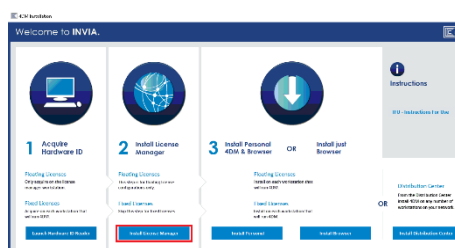


Figure 3: Install License Manager

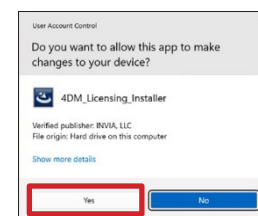


Figure 4: Select Yes to allow

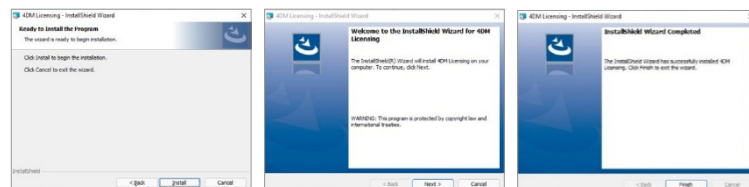


Figure 5: Follow steps in installation

- Select **Next**
- Select **Install**
- Select **Finish**

// 4DM Personal Install - Floating License

CONFIGURE AND VERIFY THE LICENSE MANAGER

NOTE: These steps are only required if the 4DM application cannot access the license manager.

1. Accessing the RLM interface
 - a. Starting in version 16.0, HTTPS is enabled by default and will generate a self-signed certificate (rlm-cert.pem) and key (rlm-key.pem) on startup. Residing in C:\Program Files\INVIA\Licensing.
 - b. To start, launch a web browser (e.g., Chrome, Microsoft Edge) and set your URL to <https://ServerHostName:5054> (be sure to include the <https://> if you are not automatically redirecting the URL via other means. ServerHostName is the IP Address of the License Manager Server).

NOTE: When browsing the RLM webpage you will likely receive a **Not Secure** statement. This is due to the RLM webpage not being certified even though the site is secure. Customers can certify the site by creating a .PEM file. Instructions are available upon request..

2. Logging In (Figure 6)
 - a. To login, you must enter a username and password. The Default login is:
 - Username: admin
 - Password: (being defined)
 - b. You will be prompted to change this password upon logging in the first time. Please note this password in a safe location (password can be changed back to admin after changing during first login).

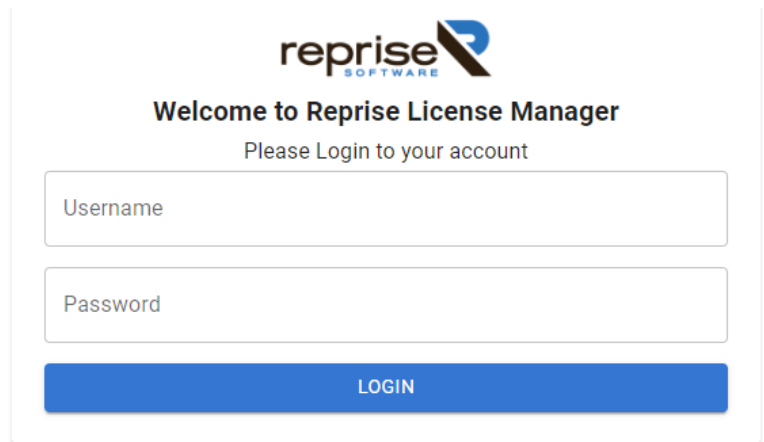


Figure 6: Logging In

3. Reread/Restart All Servers (Figure 7)
 - a. After placing the new license file in C:\Users\Public\Documents\INVIA\Licensing you will need to perform a Reread/Restart all Servers by selecting this option under Server Action.
 - b. You will be asked, 'Are you Sure?'
Select: **Yes**.

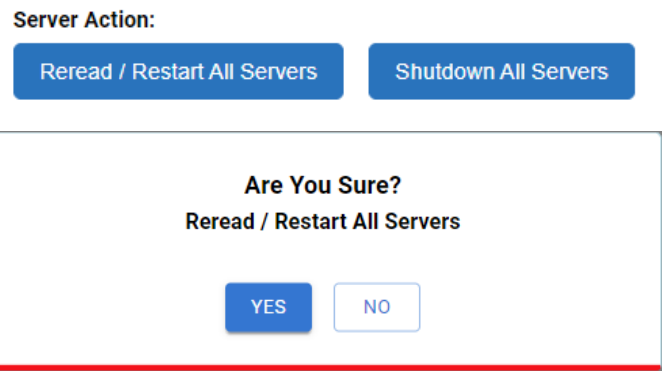


Figure 7: Reread/Restart All Servers

LICENSE MANAGER TOOLS

1. Viewing INVIA license pool. (See Figure 8)

- To view the C4DM license pool, which will show which license feature, how many licenses in use, and the user that is using that license select the INVIA pull down once a user checks out a license.

Total Servers: 1

invia Port: 5055 Start Time: Jul 08, 2024 09:35:27 AM

Pool	Product	Version	Expiration	Count	Soft Limit	In-Use	Roam	Reserved	HostId	Timeout	Share	Total Checkouts	Named User List
1	corridor4dm	1.0	Aug 27, 2024	1	1	1	0	0	ANY	0	Host	1	N/A
2	corridor4dm.nm	1.0	Aug 27, 2024	1	1	1	0	0	ANY	0	Host	1	N/A
3	corridor4dm.pet	1.0	Aug 27, 2024	1	1	0	0	0	ANY	0	Host	0	N/A
4	corridor4dm.ct	1.0	Aug 27, 2024	1	1	1	0	0	ANY	0	Host	1	N/A
5	corridor4dm.cfr	1.0	Aug 27, 2024	1	1	0	0	0	ANY	0	Host	0	N/A
6	sekcb_base	1.0	Aug 27, 2024	0	0	0	0	0	ANY	0	Host	0	N/A

Figure 8: INVIA License Pool

2. Removing a User (See Figure 9)

- If a user does not exit 4DM when finished, the license(s) will still be in use and may cause a licensing error for additional users. For the Administrator to free up a license, click on the pull down next to the license(s) and click on the trash icon. (Note: the pull down will provide info on who has the license checked out and the time).

2 corridor4dm.nm 1.0 Aug 27, 2024 1 1 1 0 0 ANY 0 Host 1 N/A

Product	Pool	Version	User	Host	Requested Version	Checked Out	Reserved	Time	Roam Return	PID	Action
corridor4dm.nm	2	1.0	rrozmariewicz	invia-1267		1	0	Jul 08, 2024 10:53:02 AM	--	13544	

Figure 9: Removing a User

3. Running Diagnostics (See Figure 10)

- To run Diagnostics if there are any issues, click on the Diagnostics button and click download and send the log to support@inviasolutions.com

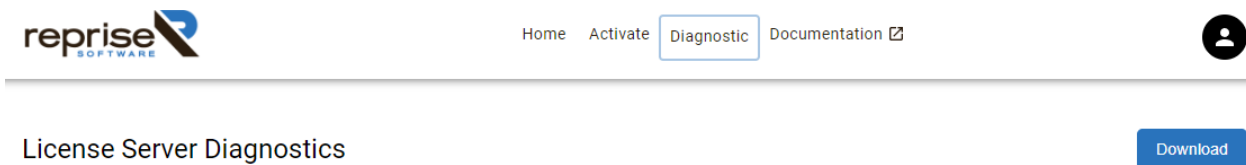


Figure 10: Running Diagnostics

4. Adding additional users (Figure 11)

a. You can add additional users by selecting settings to get to the User Management screen.

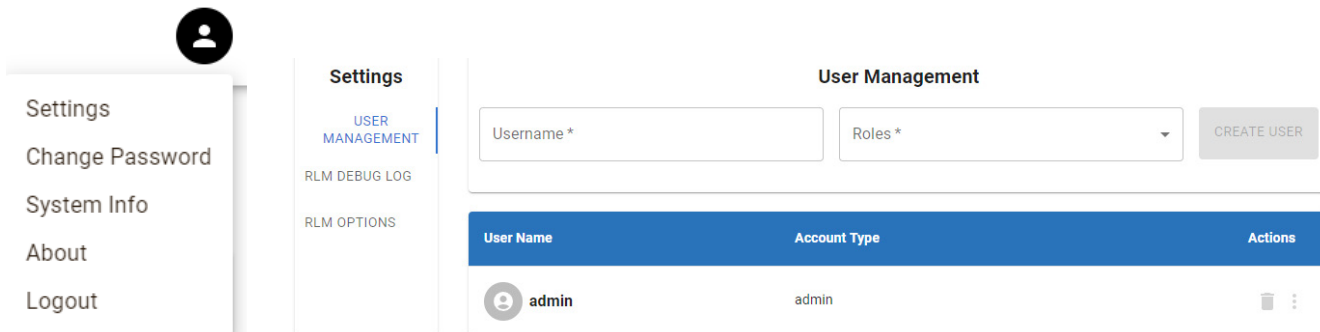


Figure 11: Adding Additional Users

b. Enter a Username and select a specific role for this user. (See Figure 12)

c. Then Click on CREATE USER.

d. A password will be created.

e. You can copy the text into a spreadsheet to remember the password.

(See Figure 13)

f. You can also change the password and permissions by selecting the 3 dots.

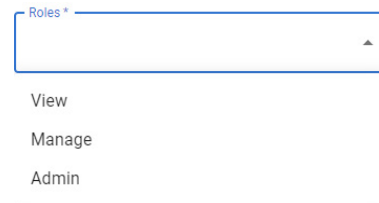


Figure 12: Select Role

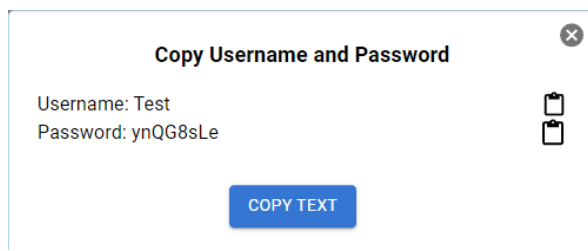
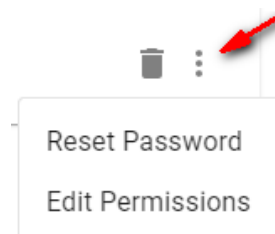


Figure 13 Passwords:



5. To log out, select this icon and select logout. (Figure 14)

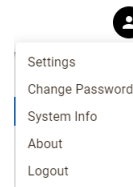


Figure 14: Logout

// 4DM Personal Install - Floating License

INSTALL THE 4DM PERSONAL SOFTWARE OR 4DM BROWSER

Repeat this section on **each workstation** that will run 4DM(Personal). To perform the installation, you must be logged in as **Administrator** or have administrative privileges.

1. From the 4DM Installation screen, you have the option to install Personal 4DM & Browser or Install just Browser. Select the appropriate option: **Install Personal or Install Browser** (Figure 15).
2. Select **Yes** to allow the User Account Control to run the 4DM installation (Figure 16).
3. The InstallShield Wizard for 4DM window will be presented. Click **Next**.
4. If the **End User License Agreement** window is presented read it, select **"I accept..."** and click **Next** (Figure 17).
5. If the **Customer Information** window is presented, click **Next** (Figure 18).
6. When the **Destination Folder** window (Figure 19) is presented, click **Next**. Do **not** change directories: 4DM is looking at this specific directory to start the application.

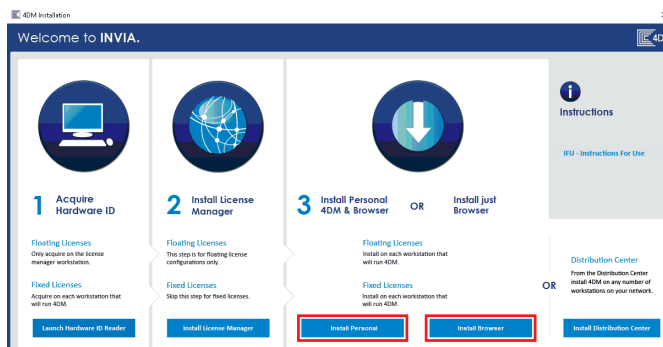


Figure 15: Install 4DM

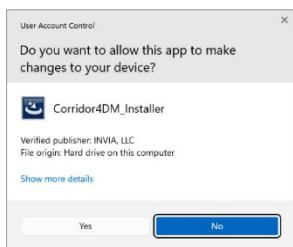


Figure 16: Select Yes to allow

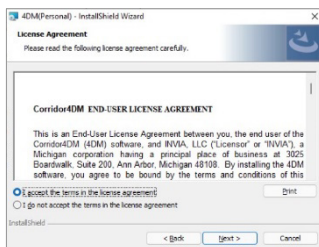


Figure 17: Accept terms

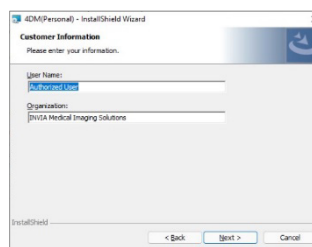


Figure 18: Customer Information

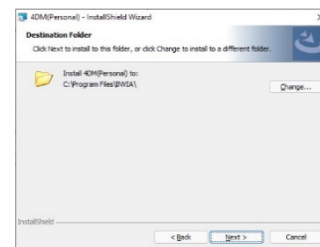


Figure 19: Destination folder

7. Confirm that all installation settings are correct in the **Ready To Install the Program** window (Figure 20) and click **Install**.
8. A number of dialogs will display starting with a command prompt window. **DO NOT CLOSE OR INTERACT** with these windows. (e.g., Figure 21). Once the **Restore Preferences** window is presented you can continue to interact with the application. (Figure 22).
9. If this is your first installation of 4DM then select **"No."** If you selected, **No**, continue to next step.
10. If you have 4DM User Preferences from a previous installation of 4DM, then select **"Yes"** in the Restore Preferences window.

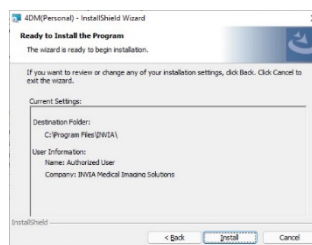


Figure 20: Confirm settings & install

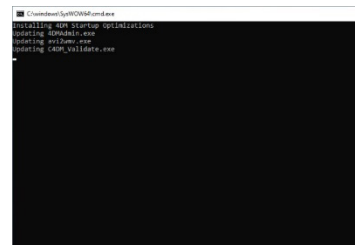


Figure 21: Example of dialog

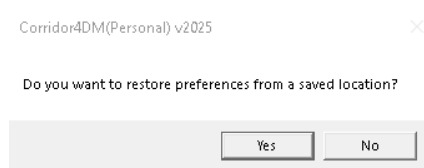


Figure 22. Restore Preferences

// 4DM Personal Install - Floating License

11. If you selected Yes, the **Restore Configuration Files** window will display (Figure 23). Browse to the stored 4DM Preferences by using the folder icon **1** and select **Restore** button **2** to import the user preferences.
12. A number of dialogs will display starting with a command prompt window. **DO NOT CLOSE OR INTERACT** with these windows. Wait for the InstallShield Wizard Completed dialog to display. Click **Finish** to exit the Wizard.

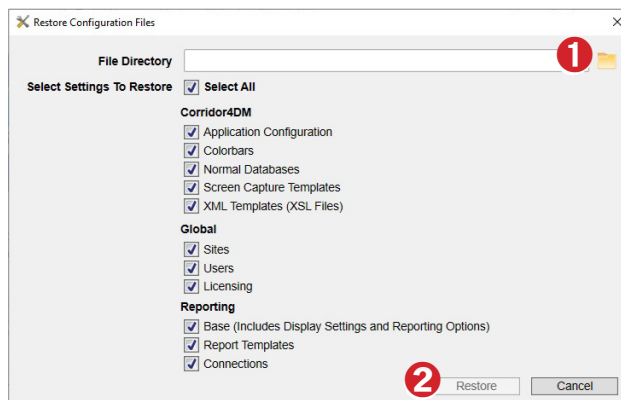


Figure 23: Restore Configuration Files

IDENTIFY DATABASE & LINK TO LICENSE MANAGER

1. Navigate to the **4DM Browser** and launch the application.
2. The **Default Database Settings** window (Figure 24) will display. Define the database name you want to appear within the 4DM Browser's **Sources** location and location you want to store the database. (We recommend storing the database on the 4DM License Manager Server in a dedicated shared directory permitting all 4DM Users read/write access to the shared directory.) Then select **OK**.
3. **4DM Browser** (Figure 25) will launch. Double-click on a 4DM Patient **3** to launch 4DM.
4. The **4DM Licensing v2025** window will display (Figure 26).

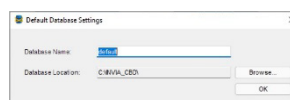


Figure 24: Default Database Settings

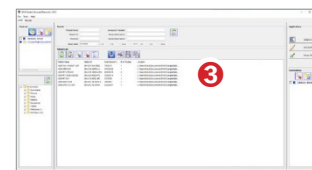


Figure 25: 4DM Browser

5. Set **License Type** to **Floating** **4** if using a floating license.

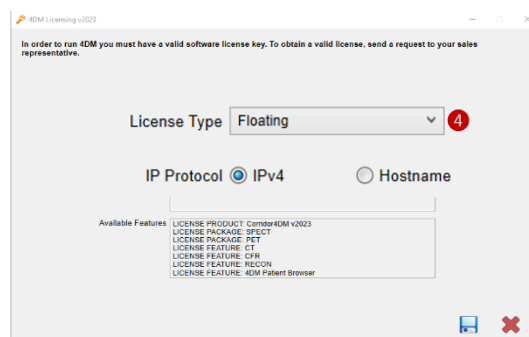


Figure 26: 4DM Licensing v2025 window

If not, see next section for a Fixed License installation.

6. Enter the IP Address **5** for the system hosting the 4DM License Manager (Figure 27) and select the test connectivity button **6**.
7. Confirm the license status is valid and select the **Save** icon **7**.
 - If the license is invalid, click the Administration icon **8** this will launch the **Reprise License Server Administration** window to verify the License Manager's status.
8. 4DM will launch.

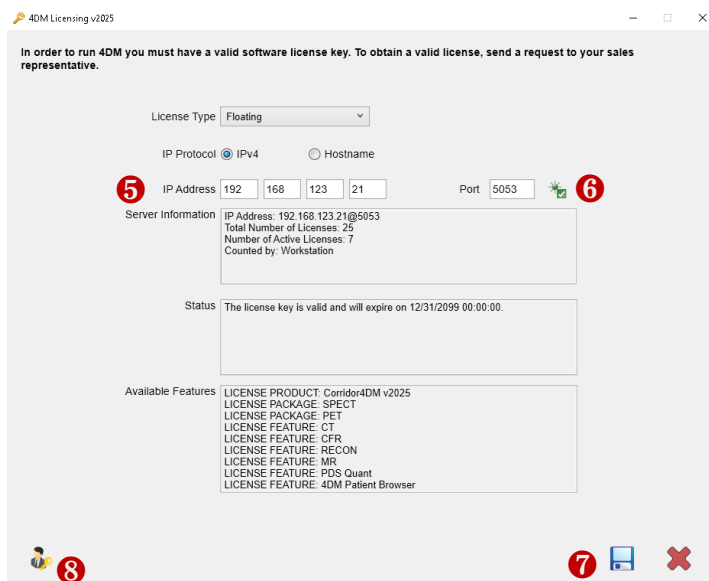


Figure 27: Enter IP Address & test connectivity

// 4DM Personal Install - Floating License

FIXED LICENSE INSTALLATION AND LICENSING

For a Fixed License Configuration, 4DM should be present in the integrated program being configured. Customers who purchased the stand-alone version of 4DM (Personal) can contact INVIA’s support team from 8am to 5pm EST at 1-734-205-1231 ext. 1 or at support@inviasolutions.com to obtain the files needed for installation of 4DM. Then follow the steps below to install and license 4DM.

1. Perform steps 1 through 3 in the Acquire a License section on page three.
 - **Resellers:** Use the 4DM Licensing Site to generate licenses. Refer to Field Note: **Obtain a License.**
2. Save and note the location of the file (to be used after 4DM installation).
3. Utilize 4DM Personal Installation Procedure steps 1-12. Then place the standalone.lic file in the c:\Users\Public\Public Documents\INVIA\4DM directory and continue with 4DM Personal Installation Procedure steps 13-15 to launch 4DM.

4DM DISTRIBUTION CENTER INSTALLATION PROCEDURE

OVERVIEW

This section explains how to set up and manage the 4DM Distribution Center. The Distribution Center is designed to streamline multi-workstation setups by enabling administrators to manage 4DM Personal software installations and user preferences from a single location. This enables preferences to be configured on one workstation, then automatically updated on all other workstations on which 4DM is installed.

INSTALL THE 4DM DISTRIBUTION CENTER

NOTE: To setup the Distribution Center you need to determine which system you want to utilize to host the distribution center and then run the Distribution Center installer. To perform the installation, you must be logged in as **Administrator** or have administrative privileges.

1. From the 4DM Installation screen, select Step 3: **Install Distribution Center** (Figure 28) to launch the 4DM(Personal) Installation script.
2. Select **Yes** to permit the User Account Control (Figure 29).
3. Follow the steps in the 4DM Licensing installation script to finish the installation (Figure 30).



Figure 28: Install Distribution Center

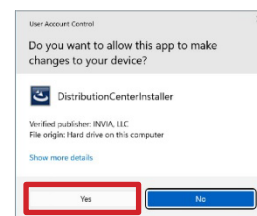


Figure 29: Select Yes to allow

- Select **Next**
- Select **Install**
- Select **Finish**

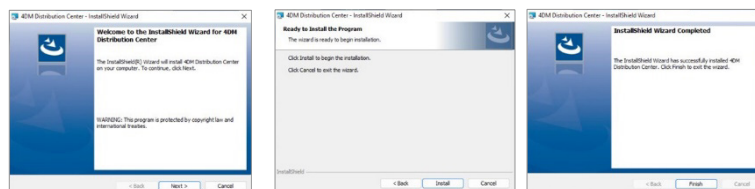


Figure 30: Follow steps in installation script

INSTALL THE 4DM DISTRIBUTION CENTER

1. On system that you want to install 4DM, launch a web browser and type in “http://[ip address of system running 4DM Client Installer]:80/INVIA (Figure 31).
2. Select the **4DM_Installer.exe** button **1** on the download page.
3. Navigate to the download directory and run the 4DM_Installer.exe once it completes downloading. Continue from the Installation Steps above.



Figure 31: Distribution Center

Note: If you are installing 4DM Personal, you will also need to select the CorridorBrowser_Installer.exe button to download the browser file listed below the 4DM_Installer.

STEPS TO DISTRIBUTE THE PREFERENCE FOR 4DM BROWSER

1. Launch **4DM Browser** (Figure 32)
2. Click on **Tools** menu **2**, and then click **Preferences** **3**
3. In the Preferences window (Figure 33), **Browse** **4** to the location where you would like the preferences to be stored
4. Select the **Preference** **5** you would like to distribute to other 4DM systems.
5. Select **Composite** **6** under **Backup Format**.
6. Click the **Backup** button **7**.
 - Once backup is complete, you receive a dialog specifying that your backup was successful.
7. To close the Preferences dialog, select the **Cancel** button **8**.
8. Navigate to CorridorBrowser.prefs file located in location you defined in step 3 to the following location on system where you installed the Distribution Center; C:\Users\Public\Public Documents\INVIA\DistributionCenter\Downloads\Preferences.

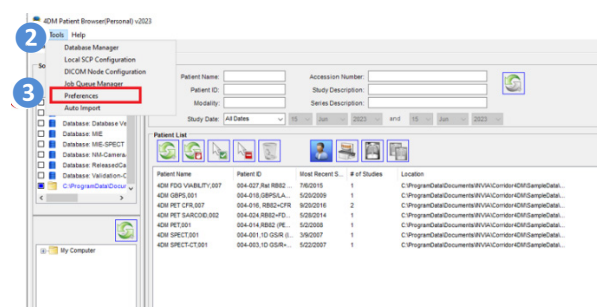


Figure 32: Follow steps in installation script

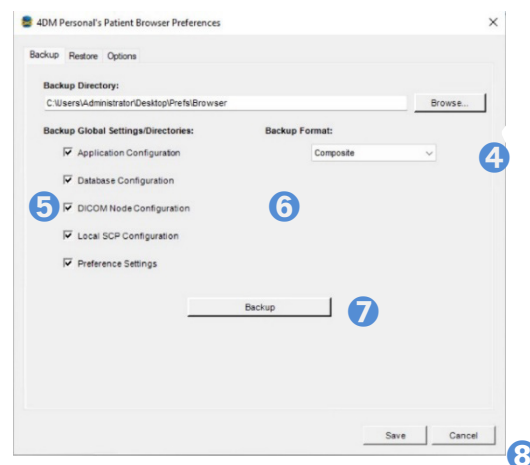


Figure 33: 4DM Browser Preferences window

// 4DM Distribution Center Installation Procedure

9. On system that you want to install the 4DM Preferences, launch browser and type in “http://[ip address of system running 4DM Client Installer]:80/INVIA (Figure 34).

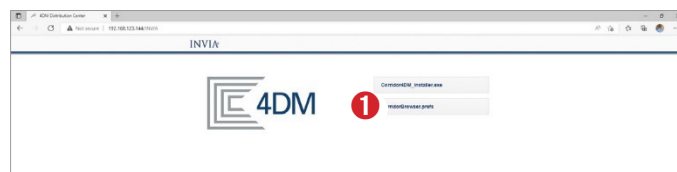


Figure 34: Web browser interface

10. Select **CorridorBrowser.prefs** 1 button on the download page.

11. Launch **4DM Browser** (Figure 35) on the system you want to install the preferences.

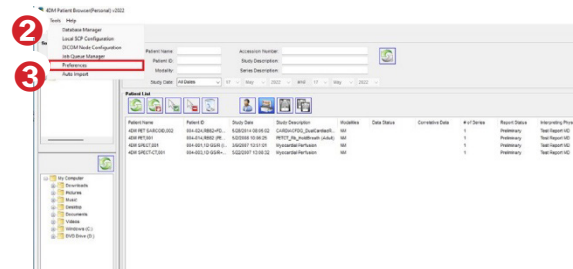


Figure 35: 4DM Browser

12. Select **Tools** 2 menu and select **Preferences** 3.

13. Select **Restore** tab 4 in the 4DM Personal’s Patient Browser Preference window. (Figure 36)

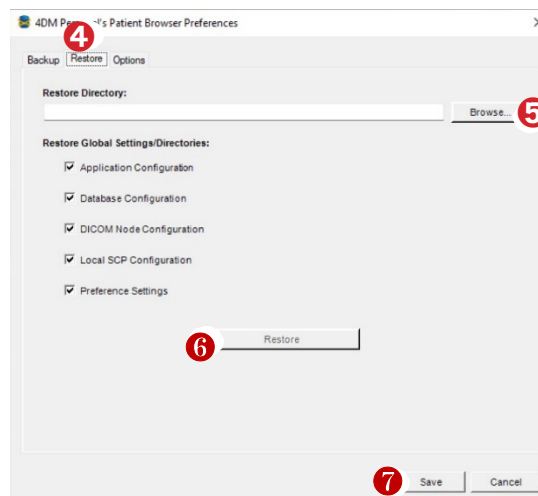


Figure 36: 4DM Browser Preferences window

14. Select the **Browse** 5 button and navigate to the **CorridorBrowser.prefs** in the download directory.

15. Select **Restore** 6 button to import the preference settings.

16. Select **Save** 7 to close the dialog and apply the changes.

STEPS TO DISTRIBUTE THE PREFERENCE FOR 4DM APPLICATION

1. Launch **4DM Application**.

2. Click on **Preferences** button to open the 4DM Preferences window (Figure 37).

3. Click on **Utility** 8 in the menu bar and select **Backup** 9.

4. In the Save window, select **No**.

5. Next, the **Backup Configuration Files** window will launch:

- Select the **Browse** button to define location to store the 4DM Preferences; C:\Users\Public\Documents\INVIA\DistributionCenter\Downloads\Preferences

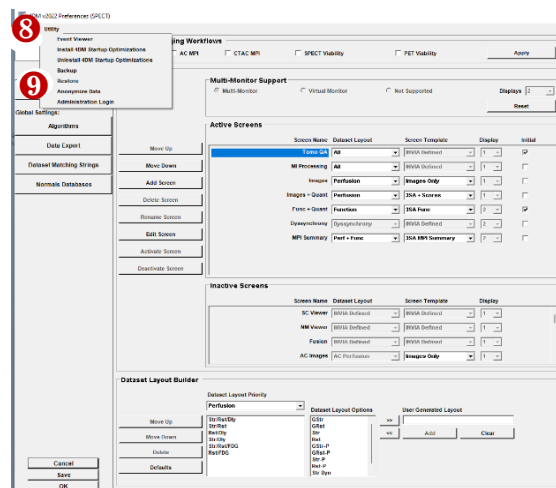


Figure 37: 4DM Preferences window

// 4DM Distribution Center Installation Procedure

6. Click the **Select Folder** button (Figure 38).
7. In the Backup Configuration Files window, select the **Backup** button (Figure 39).
8. In the Backup was successful window, select **OK**.
9. On the system that you want to install the 4DM Preferences, launch a web browser and type in “http://[ip address of system running 4DM Client Installer]:80/INVIA (Figure 40).
10. Select the **4DM settings** you want to import on the client (e.g. Connections.cfg, Licensing.cfg, mspdefs_SPECT.cfg, PhysicianList.cfg, Sites4DM.cfg, UserList.cfg, etc.)
11. Launch **4DM application**.
12. Select **Preferences** to open the 4DM Preferences window (Figure 41).
13. Click on **Utility** **1** in the menu bar and select **Restore** **2**.
14. In the Save window, select **No**.
15. Next, the **Restore Configuration Files** window will launch (Figure 42).
16. Select the **Browse** button **3** and navigate to the 4DM Preferences you located in the systems download directory.
17. Select **Restore** button **4** to import the preference settings.
18. Select **Save** to close the dialog and apply the changes.

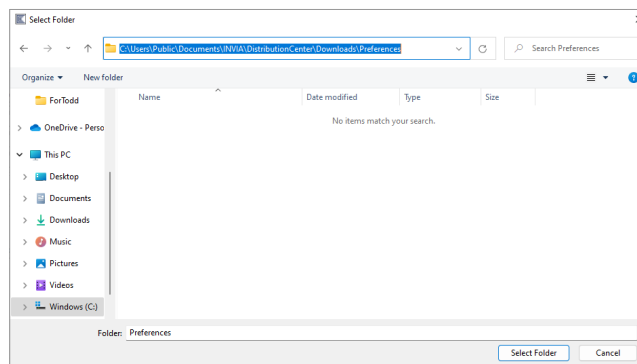


Figure 38: Select folder

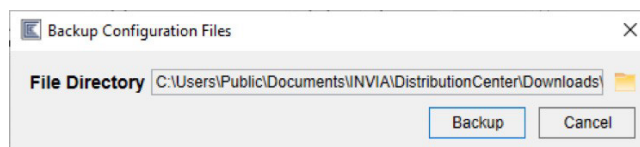


Figure 39: Backup configuration files

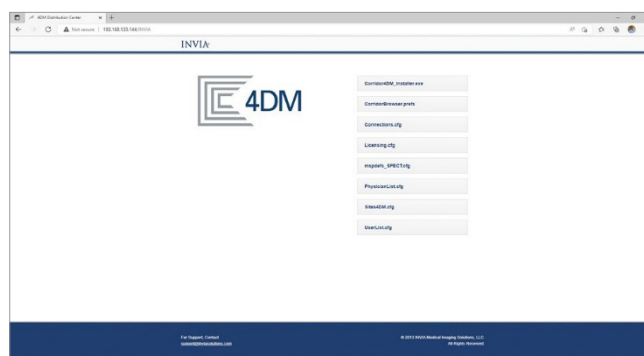


Figure 40: Web browser

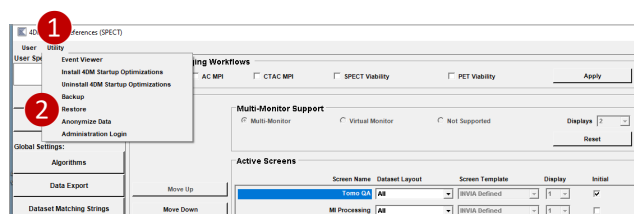


Figure 41: 4DM Preferences

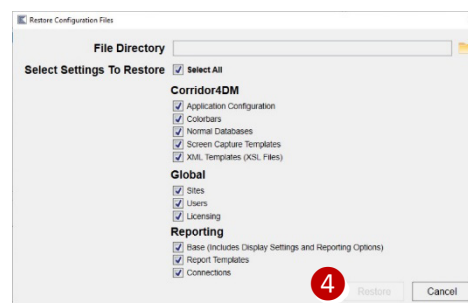


Figure 42: Restore configuration files