



DDD v4.2 Installation and Configuration Guide

November 2011

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Overview

To install and configure the DDD products, complete the following tasks:

1. Check that the DDD Simulation Server system requirements (listed below) are satisfied.
2. Install the DDD Simulation Server on the server machine.
3. Configure the DDD Simulation Server.
4. Check that the DDD client system requirements are satisfied.
5. Install the DDD client software on each client machine.

Ideally, the DDD Simulation Server should be installed on a computer that is designated as the server machine. The DDD client software is run remotely using Microsoft Shared Folders. Simulation participants will not need to install the DDD Client on their machine, merely run the Click Once application which is hosted on the Server. Client machines should ensure that they meet the minimum system requirements for the DDD Client software. It is possible to run the DDD Simulation Server and the DDD client software on the same computer, if needed.

DDD Simulation Server System Requirements

The server and the client PCs must be connected to the same local area network (LAN). The **minimum** hardware requirements for installing the DDD Simulation Server include:

- Windows XP with Service Pack 2 (SP2)
- Pentium 4 (2.0 GHz processor or equivalent)
- CD-ROM drive
- 200 MB available hard drive space
- 1 GB RAM
- VGA graphics card, 128 MB
- Sound Card capable of receiving microphone input (if voice communications will be used)

In addition to the above minimum requirements, the following configurations (or greater) are **recommended**:

- Dual-core Pentium 4 (3.2 Ghz or equivalent)
- 1 GB RAM

Running the DDD requires that the client and server machines have Microsoft's .NET 4.0 Framework installed. The framework can be downloaded from the following URL:

<http://msdn.microsoft.com/en-us/netframework/aa569263>

The installation requires that you have administrative privileges on the machine that you are trying to install the framework on.

DDD client machines require DirectX 9. DirectX 9 can be found in your DDD distribution, under the Required Software folder.

DDD Server installation includes the Conaito VoIP Server and Client SIP SDK, needed to support voice communications, which is included in the DDD Server installer process.

Installing the DDD Simulation Server

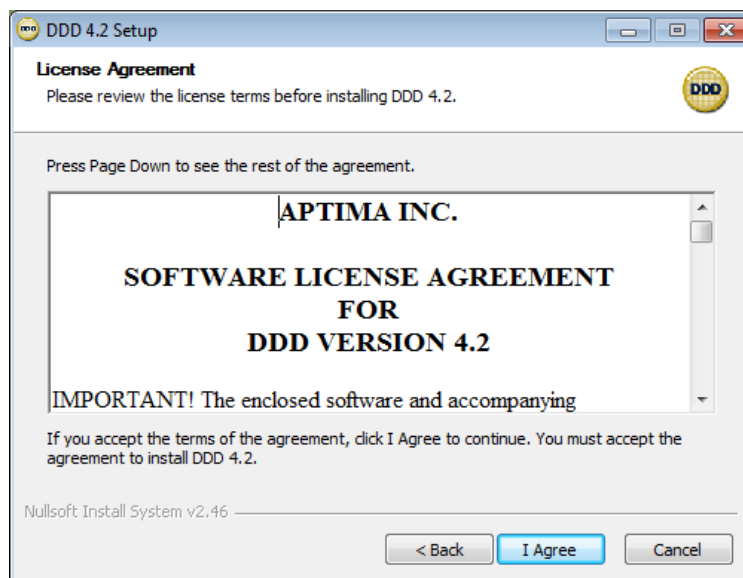
Note: Prior to installing DDD v4.2, uninstall any prior version residing on the host machine.

On the server machine:

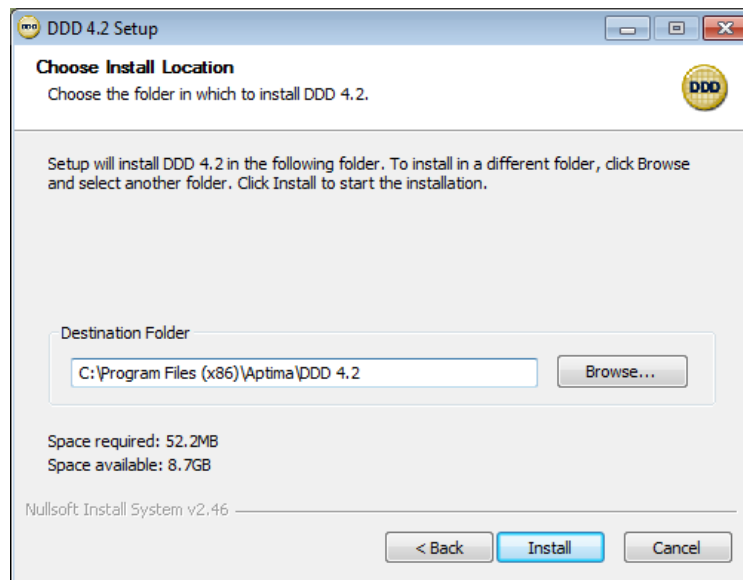
1. Insert the DDD CD.
2. If the CD does not run automatically, click **Start**, select **Run**, confirm that setup.exe is displayed in the Run window, and click **OK**.



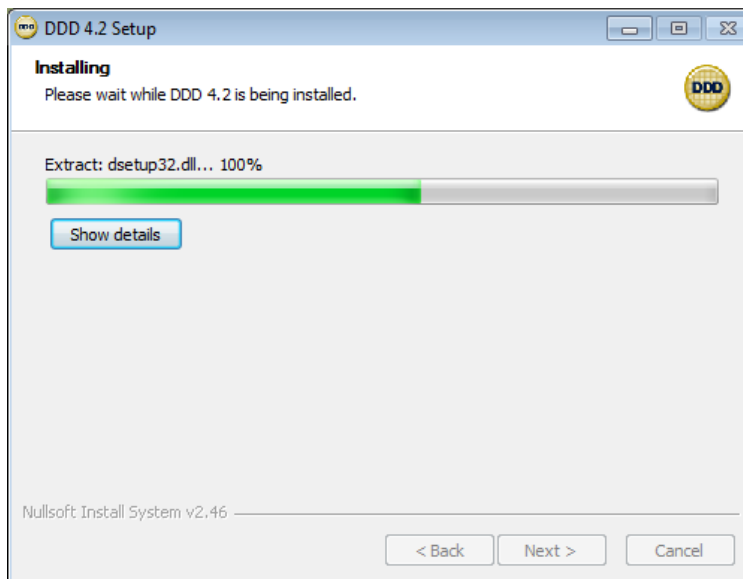
3. After clicking **Next**, the Aptima DDD Version 4.2 License Agreement is displayed, as shown below. To accept the terms and continue installation, click **I Agree**. To exit the installation process click **Cancel**.



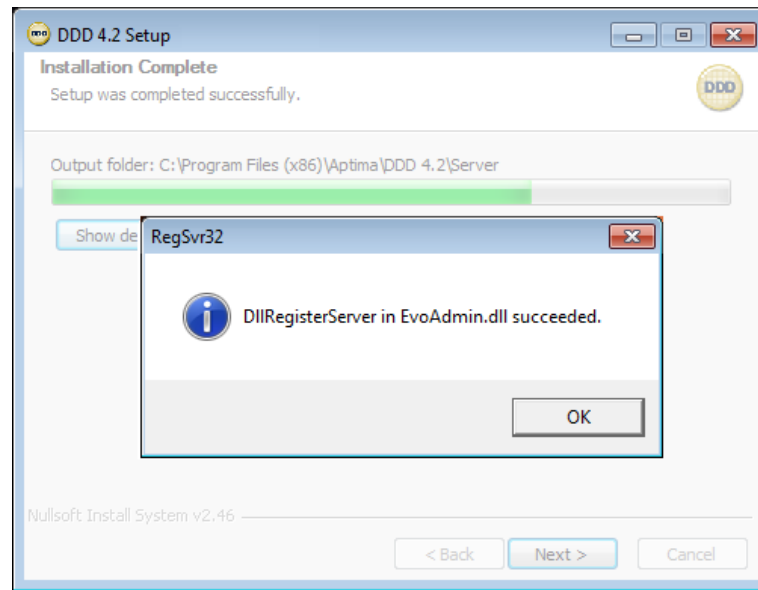
4. The Choose Install Location screen is displayed. Click **Install** to install the DDD Simulation Server software in the default location (shown below).



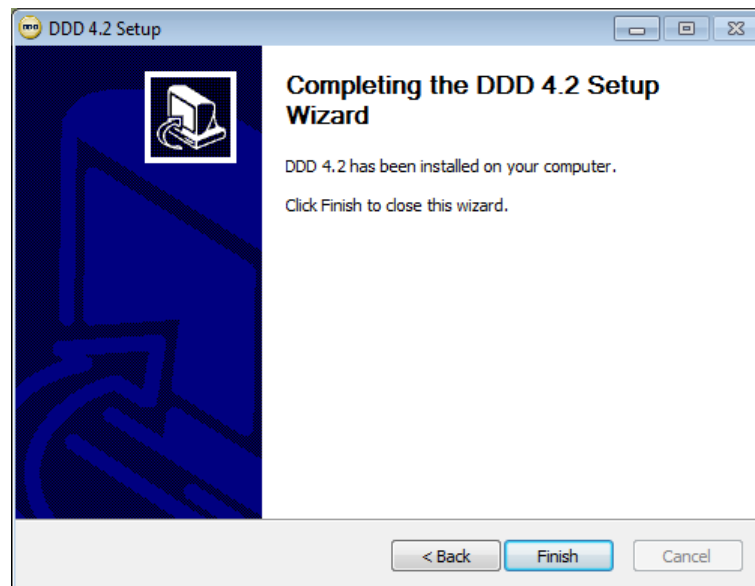
5. The Installing Aptima DDD 4.2 screen is displayed and a status bar indicates the progress of the installation. When installation is complete, click **Next** to continue.



6. When the installation is complete, a status window is displayed. Click OK.



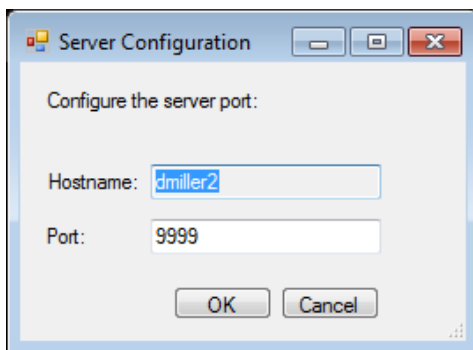
7. The Setup Wizard Completed screen is displayed, along with a 'DLLRegisterServer' confirmation message. Click **OK** in the confirmation message, and then click **Finish** to finish the installation



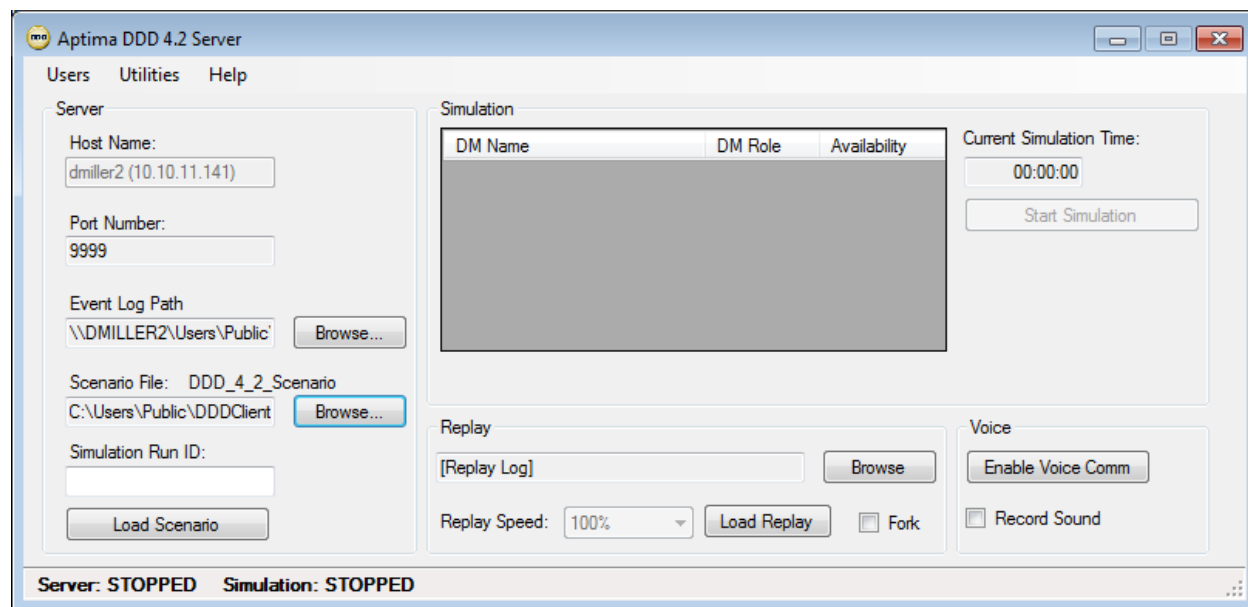
Configuring the DDD Simulation Server

Once the DDD Simulation Server installation is complete and the DDD 4.2 Server is launched, the user is prompted to specify a Port as shown below.

- The host name of the server machine is displayed automatically in the Hostname box. This value cannot be changed from the DDD Simulation Server console. The default port number is 9999. If this port number is already in use by another application installed on the same machine, enter a different 4-digit number.



Click OK in the Server Configuration window to display the DDD Simulation Server console, as shown below.



Use the following steps to configure the DDD Simulation Server console:

- A sample scenario file name is selected by default (shown above). Use **Browse** to select a new scenario. The new scenario will be in use until the DDD Simulation Server is stopped and another scenario is chosen.
NOTE: DDD 4.2 will only work with DDD 4.2 scenarios. If you have a DDD 4.0 or 4.1 scenario, please contact Aptima's support (support@aptima.com) to acquire a scenario conversion utility.
- A default directory path is displayed in the Event Log Path box. The events in a simulation are logged by default. At the end of each simulation, a file of these events is automatically named and stored in the path specified in the Event Log Path box. Use **Browse** to change the Event Log Path, if desired. The new Event Log Path will be used to store all log files until that path is changed.

Creating User Accounts

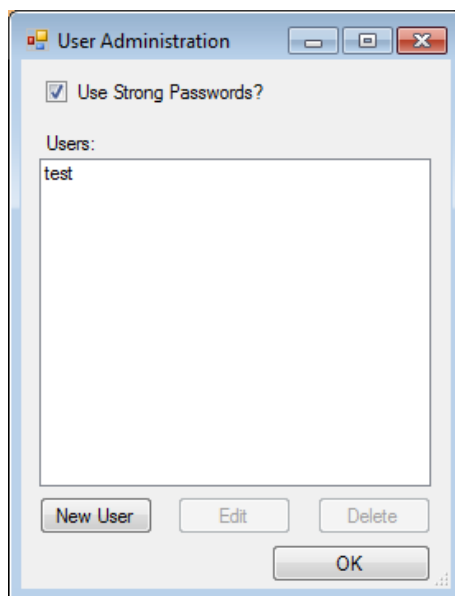
A user account consists of a user name and a password. Creating user accounts is a task that **must** be performed before the server is started and a simulation is run, because no player will be able to enter a simulation without a user account.

NOTE: User account passwords are disabled for web-downloaded evaluation copies of the DDD.

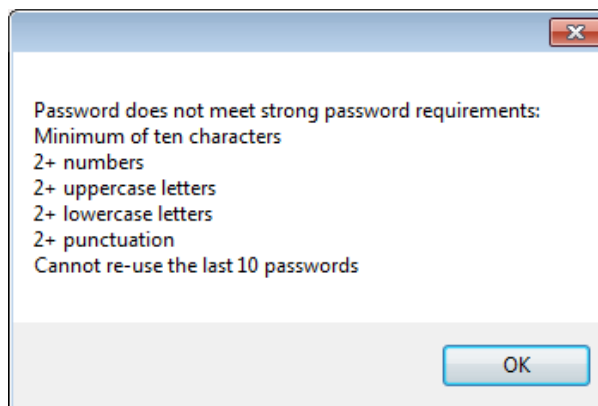
A single user account can be used for multiple decision makers to access the server. You can also create single user accounts for single decision makes as well, though it's not required.

Use the following steps to create user accounts:

1. Click Users in the menu bar. The User Administration dialog box is displayed, as shown below.

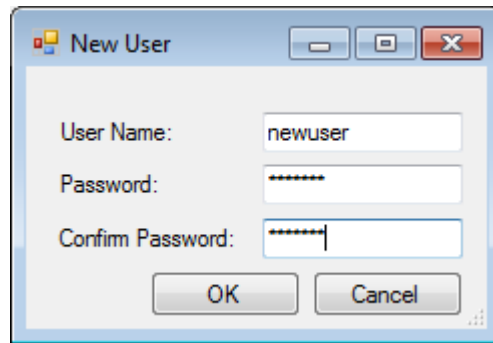


Notice that the Use Strong Passwords box is checked by default. Use Strong Passwords establishes specific requirements for the creation of passwords. These requirements are shown below.

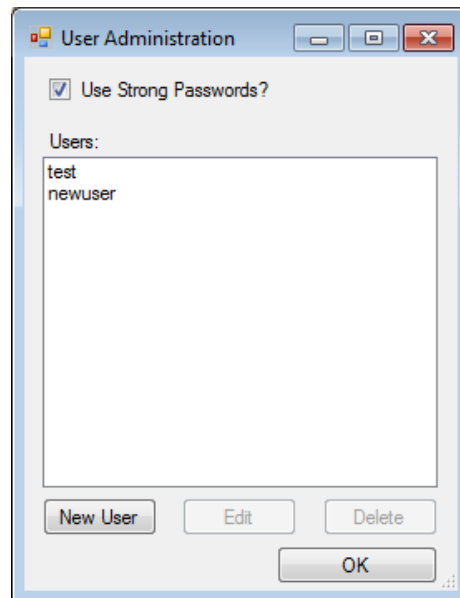


If the above requirements are not needed, then click on the Use Strong Passwords box to remove the checkmark.

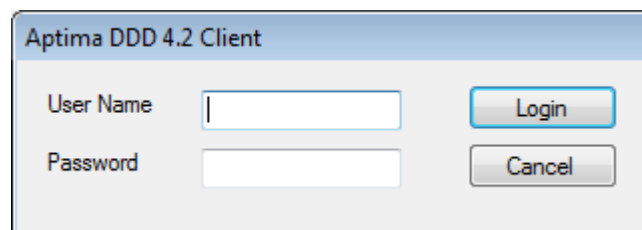
2. Click **New User** to display the New User dialog box, as shown below. Enter a name in the User Name text box and a password in the Password and Confirm Password text boxes. Note that the password will be displayed as a string of asterisks as a security measure. The same password must be entered in each password text box to ensure that the intended password has been entered correctly.



3. Click **OK**. The User Administration dialog box appears, and the new user name is displayed, as shown below.



Once user accounts have been created, the experimenter will assign a different user account to every player. After a player runs the DDD client, a user login box is displayed. That player enters the user account information (the user name and password given to the player) in the DDD Client login box, as shown below.

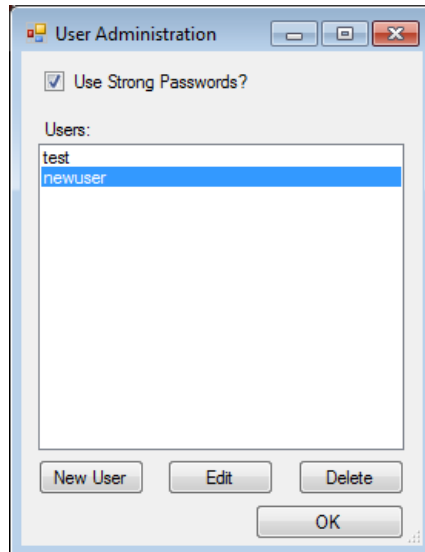


If a player enters an incorrect password, an error message will be displayed and that player will not be able to enter the simulation.

Changing the Password in a User Account

Use the following steps to change the password in an existing user account:

1. Click Users in the menu bar to display the User Administration dialog box.
2. Select the user name, as shown below.



3. Click **Edit**. The Edit User dialog box is displayed, as shown below.

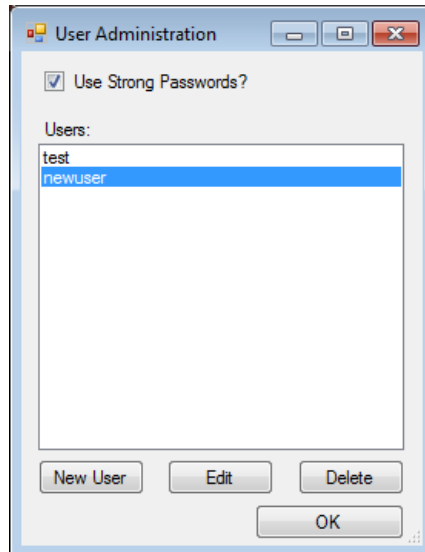


4. Enter the same new password in each password text box.
5. Click **OK** to accept the new password or **Cancel** to keep the existing password. The User Administration dialog box is displayed again.

Deleting a User Account

Use the following steps to delete an existing user account:

1. Click Users in the menu bar to display the User Administration dialog box.
2. Select the user name, as shown below.



3. Click **Delete**. The user name is no longer listed in the User Administration dialog box.

Getting Help

This document is available online through the DDD Simulation Server Help menu. In the same menu, select About DDD 4.2 to learn more about the product. Select Contact Us to display an email address and phone number for DDD Support.

Troubleshooting Tips

If it is not possible to start the DDD Simulation Server, another application installed on the machine may be using the port number specified in the Port Number box on the DDD Simulation Server console. Try entering a different number above 9000 in the Port Number box and try starting the server again.

Do not use Ctrl-Alt-Del to bring up the task manager or when switching applications on the server. Otherwise, it will be necessary to restart the server.

DDD Client System Requirements

The server machine and the client machines must be connected to the same local area network (LAN).

Other client system minimum requirements include:

- Windows XP with Service Pack 2 (SP2)
- Pentium 4 (2.0 GHz processor or equivalent)
- CD-ROM drive
- 1 GB RAM
- VGA graphics card (128 MB)
- Sound Card capable of receiving microphone input (if voice communications will be used)
- A web browser with ClickOnce compatibility
- The ability to use Windows Shared Folders

The DDD Client installation has been tested with Microsoft Internet Explorer v7.0 and above, as well as Firefox v4.0 and above. Firefox requires the addition of a ClickOnce plug-in that is freely available from mozilla.org. See Troubleshooting Tips on page 16 for details.

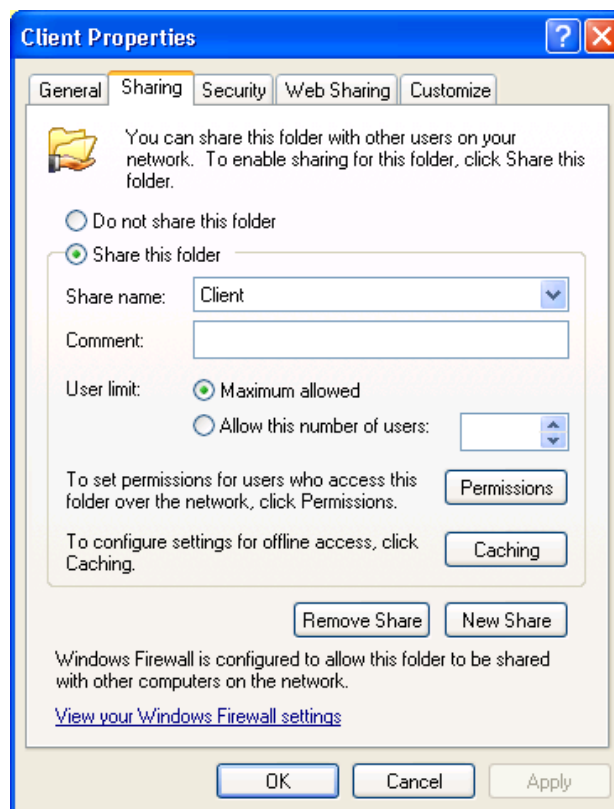
Running the DDD Client Software

Once the DDD Simulation Server has been installed and configured, the DDD Client is downloaded on the fly by using ClickOnce. The DDD Client can only be run in online mode by accessing the DDD server machine that stores the latest copy of the DDD client software. It cannot be installed from the DDD CD. ClickOnce provides a unique functionality of guaranteeing that the most up-to-date and compatible version of client software is always synchronized with the DDD Server. A temporary client software package is downloaded from the DDD Server and stored in a cache area for use. Prior to each run of the DDD client, the ClickOnce software verifies that the cached version of the DDD Client is the latest one available from the server and automatically updates the latest version if it is not.

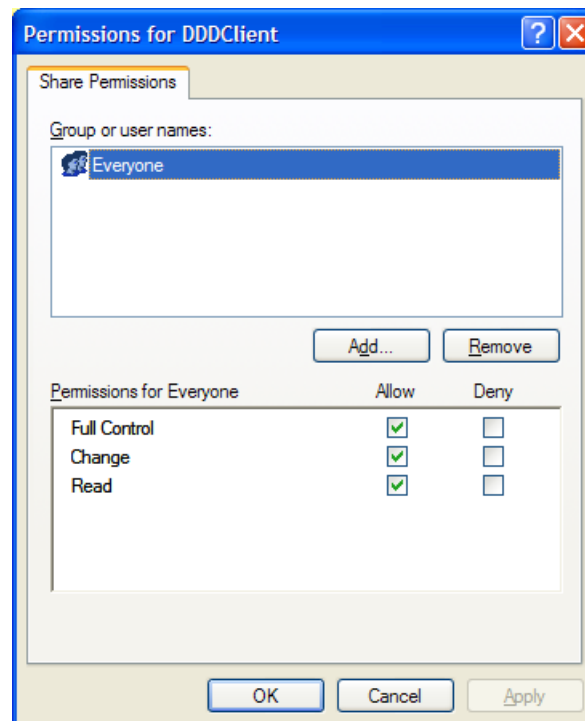
Configuring the Client folder

For a Windows XP configuration, use the following steps to configure the DDD client software to be accessible from other XP machines (not required for Windows 7 configuration):

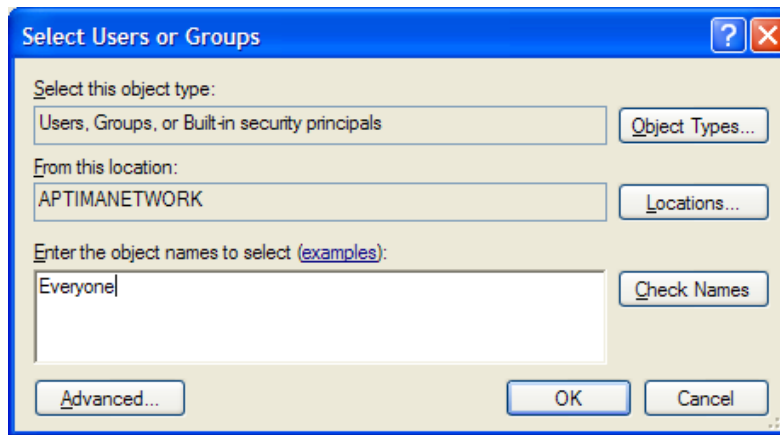
1. Navigate to the following folder: C:\Program Files\Aptima\DDD 4.2
2. Right-click on the Client folder and select Properties.
3. In the Client Properties window, click on the Sharing tab.
4. Click on the 'Share this folder' radio button if it is not already selected.



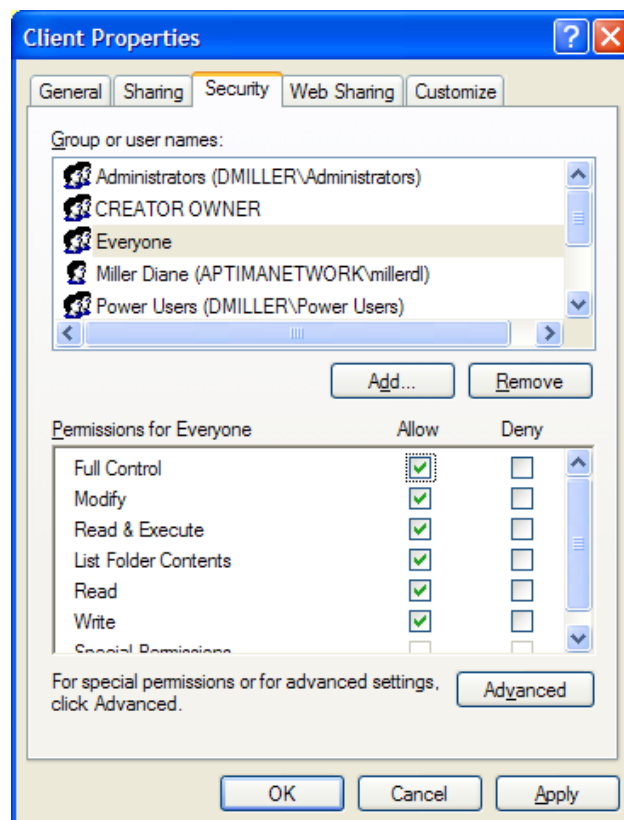
- Click the Permissions button. In the resulting Permissions for DDDClient window, click 'Everyone' under 'Group or user names' and ensure that 'Full Control' is checked in the Permissions list.



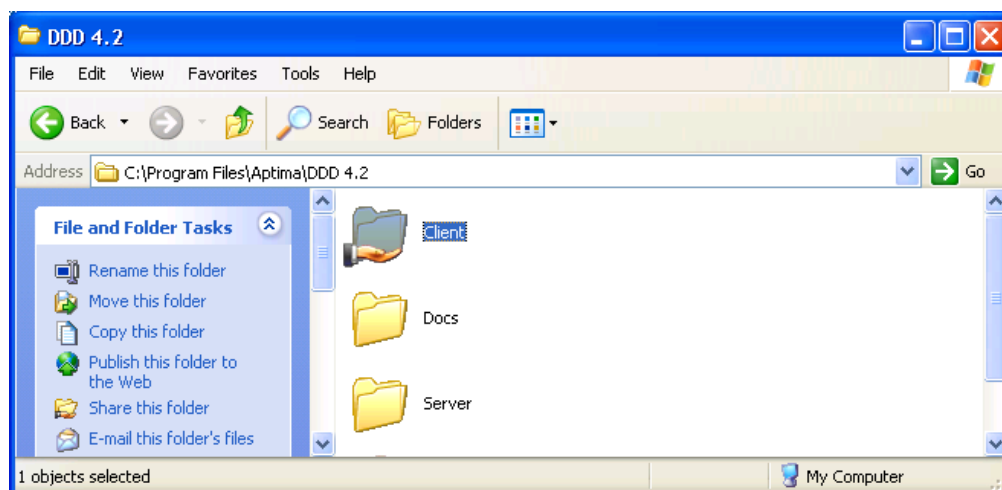
6. If 'Everyone' is not included in the list of names, click 'Add...'.
7. In the Select Users or Groups window, enter 'Everyone' in the text box at the bottom of the window and then click 'OK'. Then repeat Step 5 above.



8. Next, click on the Security tab. Click on 'Everyone' under 'Group or user names' and ensure that 'Full Control' is checked in the Permissions list.



Once these settings have been specified, the Client folder should be 'shared' (indicated by 'hand' graphic under folder as shown below) and accessible to other DDD client machines.



Opening a DDD Client

Windows XP: From a web browser on the client machine, select and open the following file from a shared folder located on the server machine on which the DDD Simulation Server is installed:

<file:///hostname/DDDClient/index.htm>

Windows 7: From a web browser on the client machine, select and open the following file from a shared folder located on the server machine on which the DDD Simulation Server is installed:

<file:///hostname/Users/Public/DDDClient/index.htm>

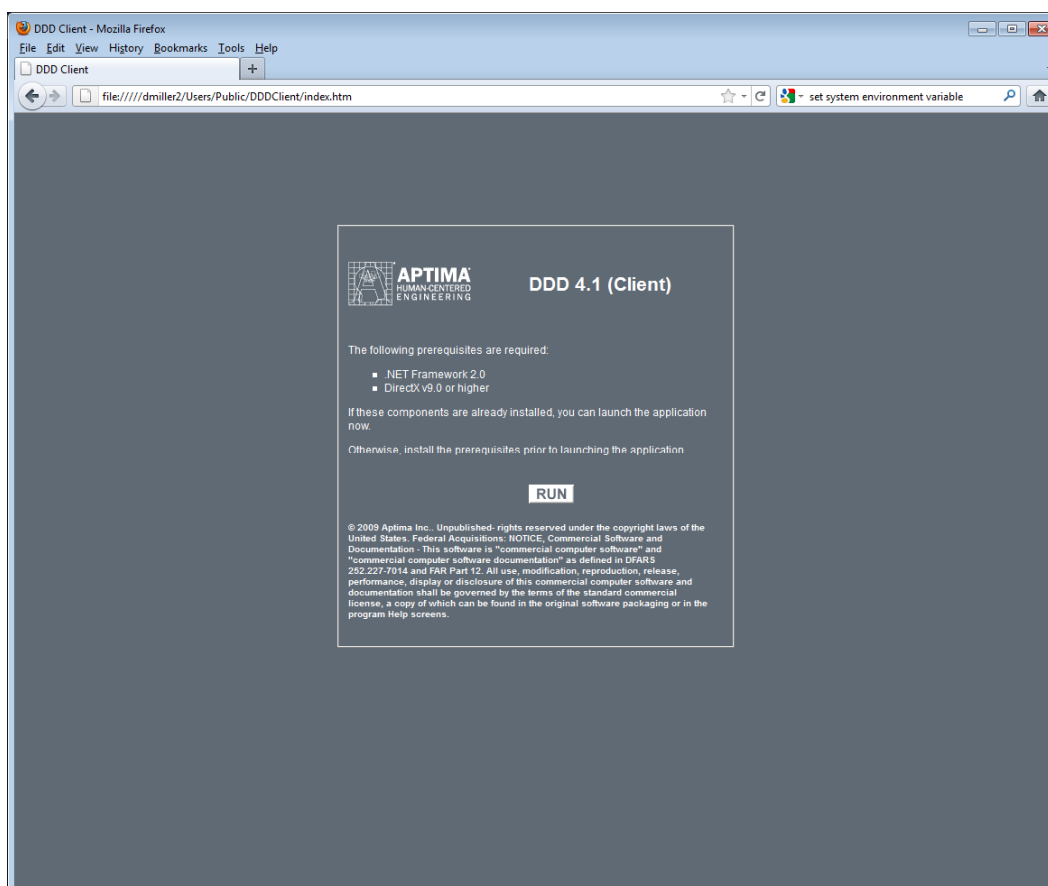
In either configuration:

- *<hostname>* is the name of the DDD server machine,
- *DDDClient* is the name of the shared folder on the server machine, and
- *index.htm* is the file needed by ClickOnce.

Note that the DDD runs on either Windows 7 or Windows XP, but the OS on the DDD Client machines must match that of the DDD Server.

The DDDClient shared folder is created on the server machine automatically when the DDD Simulation Server is installed.

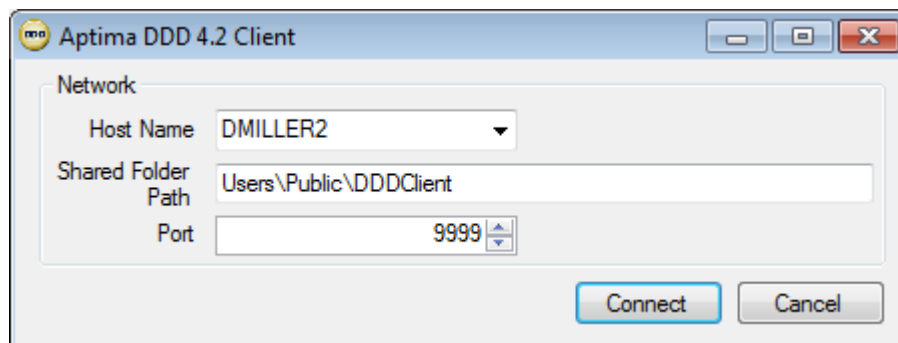
The DDD client installation screen is displayed, as shown below.



Click **Run**. If the DDD Client fails to launch, this may mean it is necessary to install the prerequisite listed on the DDD Client installation screen.

A ClickOnce application cache is created by the operating system. This cache holds all the application's files. The cache also is responsible for migrating the application's data directory to the latest version, which means it provides self-updating functionalities without user intervention.

When the user exits the client application, it is automatically removed from the user's machine. In other words, this installation is not permanent. Therefore, anyone using the client software may need to save the provided URL link for future use. Every time the DDD client is installed, the program automatically checks online for the latest version of the DDD client software. If there is a new version available, that new version is installed automatically.



Troubleshooting Tips

1. The DDD client installation process will automatically install Direct X, which is a graphical component required by DDD 4.2. There is a known conflict between Direct X and some applications that provide remote access to PCs. Therefore, do not install the DDD client software on a PC that is used to remotely access other PCs.

2. In FireFox, the ClickOnce installation link will not work without a plug-in provided by FireFox. To resolve this issue, using FireFox, download the FFClickOnce add-on from the following URL:

<https://addons.mozilla.org/firefox/1608/>

Downloading the plug-in causes it to install automatically. Exit from and restart the browser. On the Tools menu choose Extensions (which may appear as “Add-ons” in some versions). Select the FFClickOnce line. Click **Options** and **de-select** the option “Don’t prompt before running application.” Then proceed with the installation of DDD.

3. Some users may have trouble installing the DDD client through a browser. Installation can depend on the permission settings on the computer and on the network. To resolve this issue, log in as “Admin” and try to install the DDD client.

If this also is unsuccessful, find the DDDClient folder and run (double-click) the file “DDDClient.application.” Should Windows report that it does not know what to do with such a file, go to Windows Explorer, select Tools, FolderOptions, and File Types. The type Application should be of type Application Manifest and set to open with Application Deployment Support Library. If this is not the case, it may be necessary to install this library and then set the file type association.