Setting up DDME Server Software

A web service is used to communicate to the transcoder and allow for the client to communicate to so that DDMS could manage the of delivery jobs. You typically setup a Web Service on the DDME server which has direct access to the transcoder.

Software Requirements

- Windows 2003 Server
- Internet Information Services 6
- .NET Framework 2
- Rhozet CarbonCoder software and License (USB dongle)
- DMGTransfer (If Pathfire will be installed for outputting the unstitched files)

Install Carbon Coder

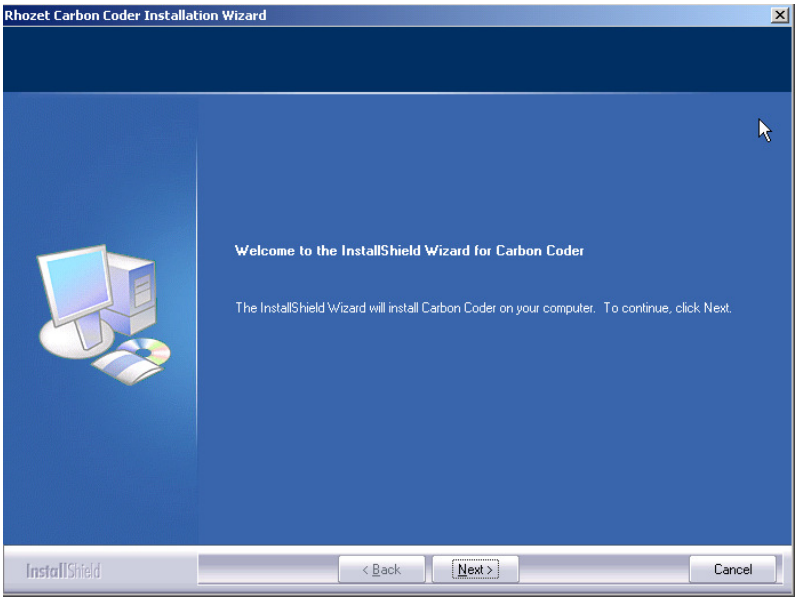
Locate the CD and USB dongle provided by Rhozet

Note: Rhozet supplies older version (3.11) with their install CD. Go to X:\Service\Approved Sundance Software\DDMS-DDME\Rhozet\Carbon3XX and run the install from there

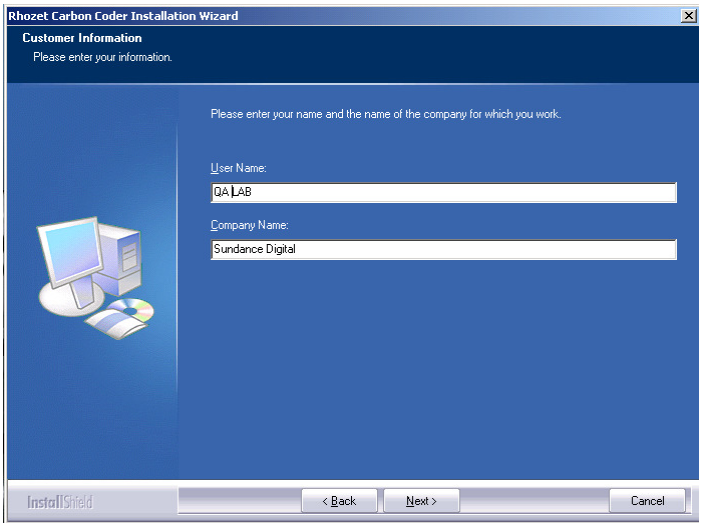
If uncertain about the version contact Rhozet at 1-408-246-3338

Plug the dongle in a USB port.

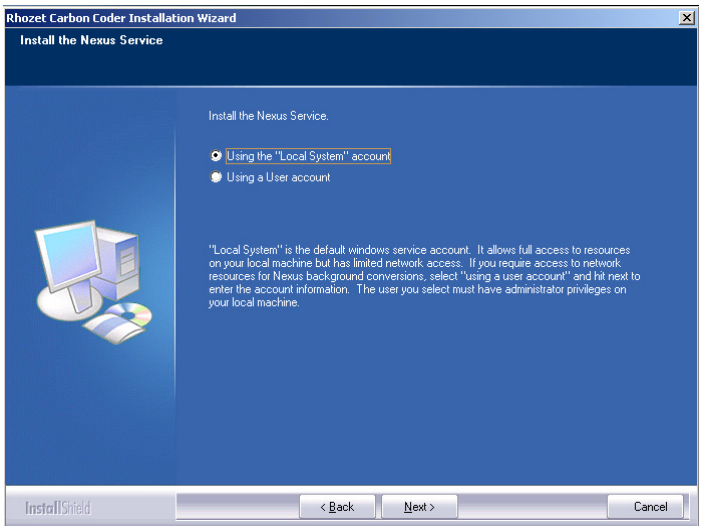
Run the setup



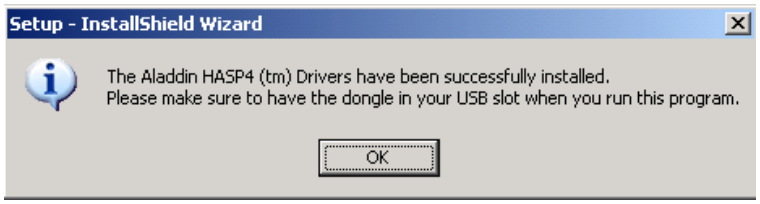
Verify the client information



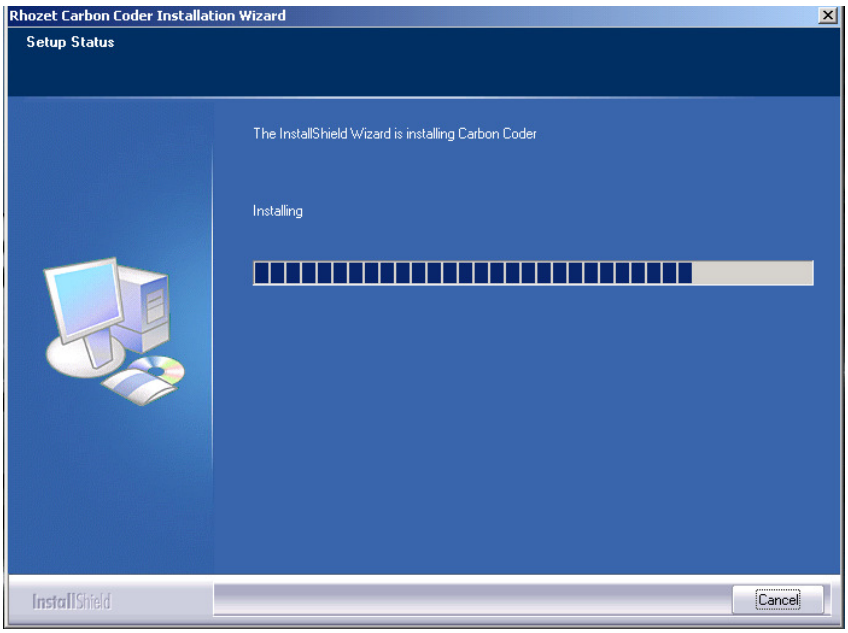
Select local system account and use default directory “C:\Program Files\Rhozet\Carbon Coder”



Click OK to acknowledge the USB dongle installs



Install progress



After Installation don't restart yet.

Install Quick Time (default Installation) from the CD supplied by Rhozet or get it at X:\Service\Approved Sundance Software\DDMS-DDME.

Note: Don't install Quick Time 7, it will cause errors and CC won't work. Use Quick Time 6 or 6.1

Restart the computer.

Copy the appropriate server preset from X:\Service\Approved Sundance Software\DDMS-DDME\Rhozet\User Presets to C:\Documents and Settings\All Users\Application Data\Rhozet\Carbon Coder\User Presets

Go to services and restart the NEXUS service.

Create the following directories on a partition that has at least 75GB of free space (in this example we are using D:\)

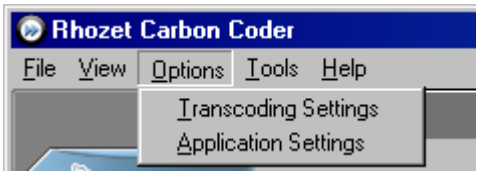
D:\CarbonConverted – to store converted files

D:\CarbonTemp – for temporary conversion storage

D:\CarbonCache - for swap files

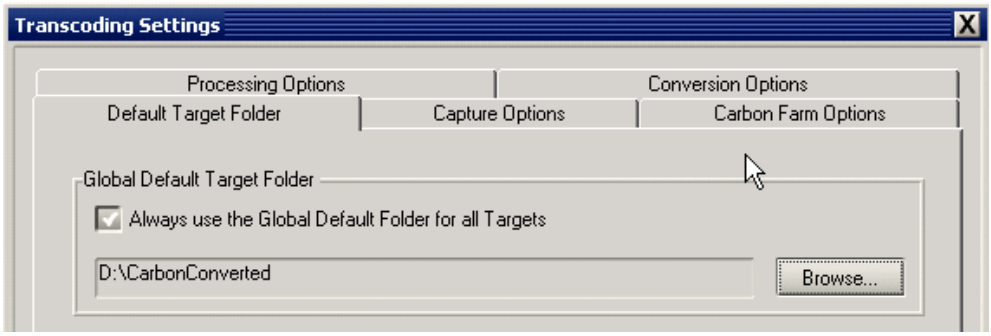
Launch Carbon Coder to finish the configuration

Select Options -> Transcoding Settings

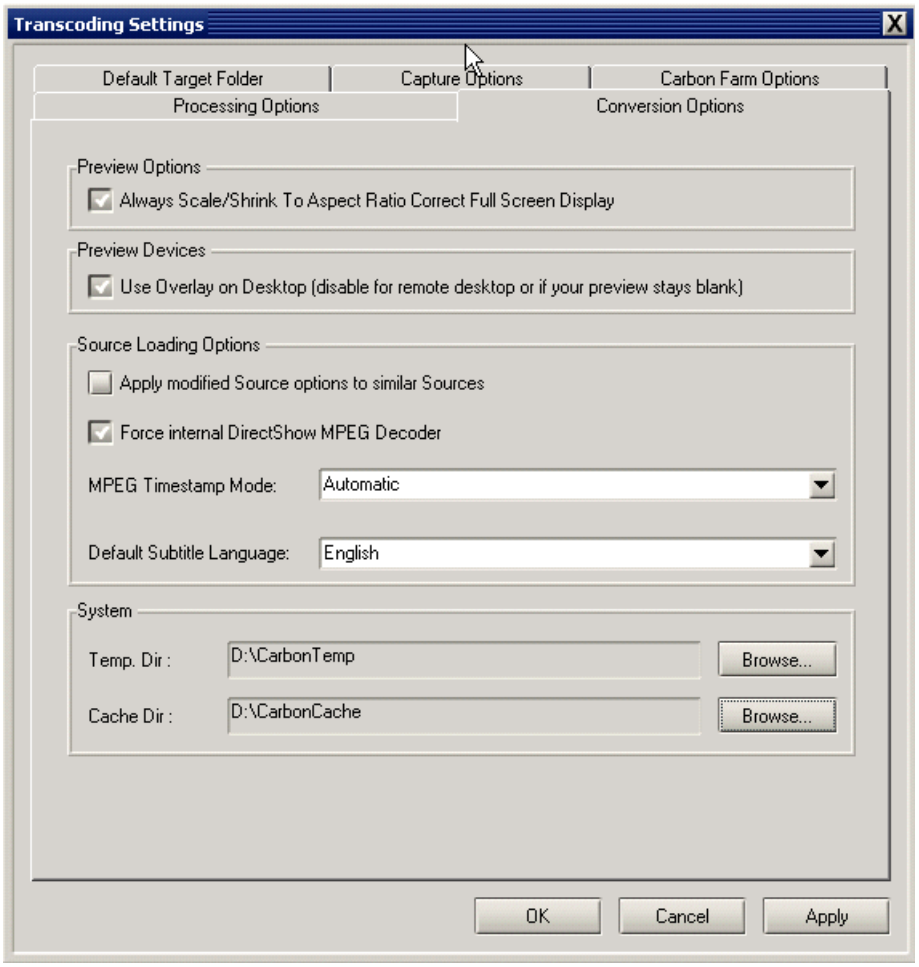


If you get a message saying that is building the presets, click cancel, wait a couple of minutes and re-launch it.

Go to Default Target Folder and change the global target folder to D:\CarbonConverted



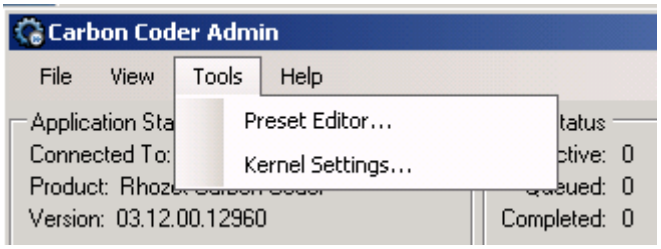
Go to Conversion Options tab and change Temp and Cache directories



Click OK. Close the application.

Launch the Carbon Admin to modify Kernel settings

Select Tools -> Kernel Settings



Change the following options:

Transcoding Slots to 2

FTP Max sessions to 2

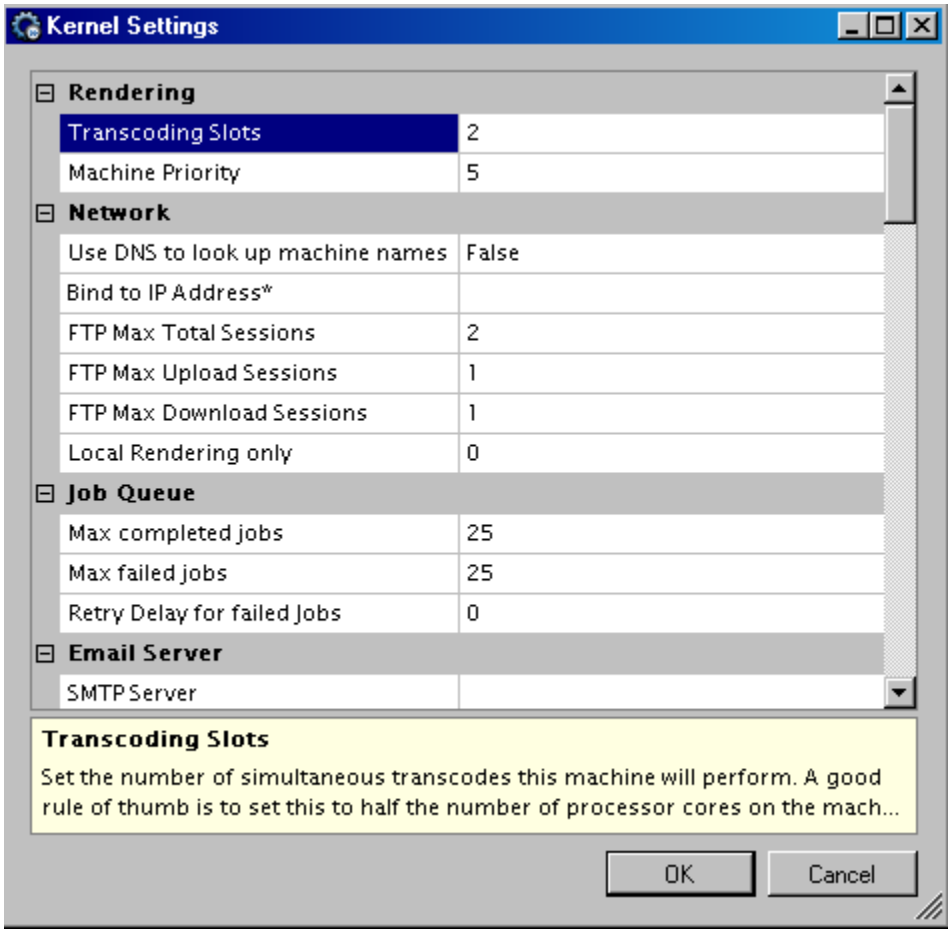
FTP Max Upload to 1

FTP Max Download to 1

Max Complete and Max Filed jobs to 25

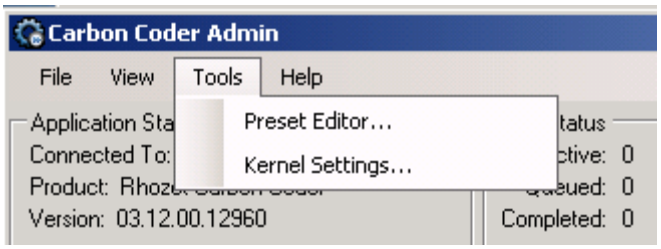
Retry Delay for failed jobs 0

Log File Retention (days) to 30 (scroll dwon)

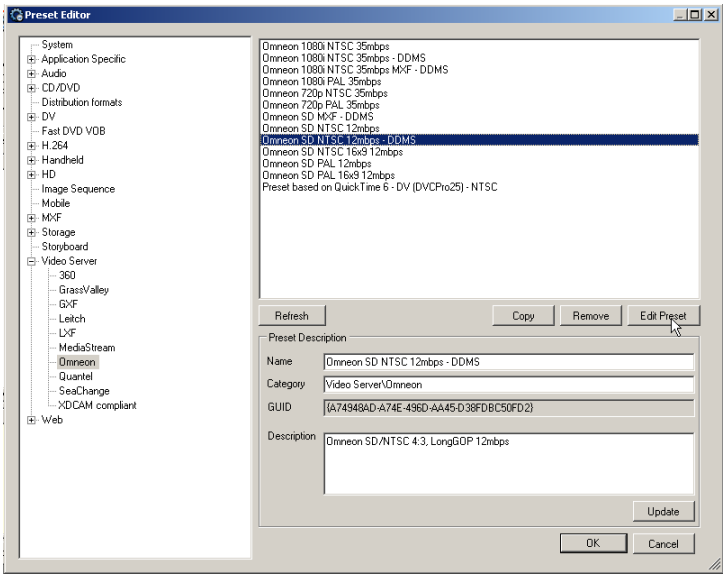


Click OK.

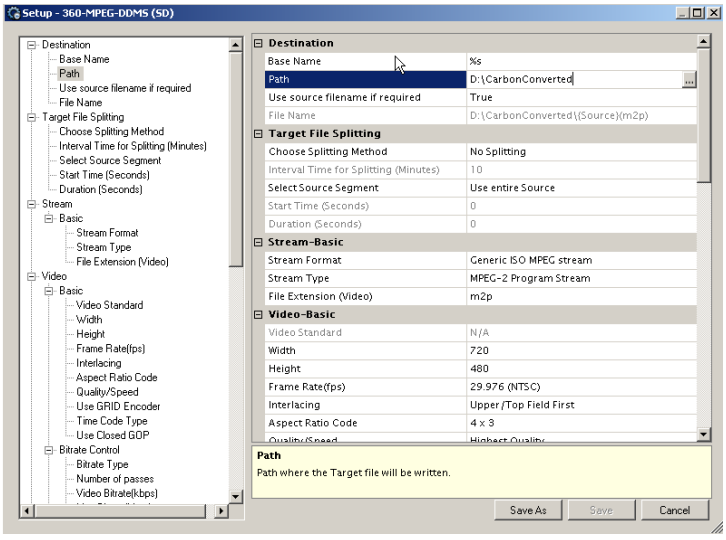
Select Tools/Preset Editor



Select Video Server on the left side. Select the correct server type. Click on Edit Preset



Change the path to correct location (the preset from beta programs points to C:\CarbonConverted)



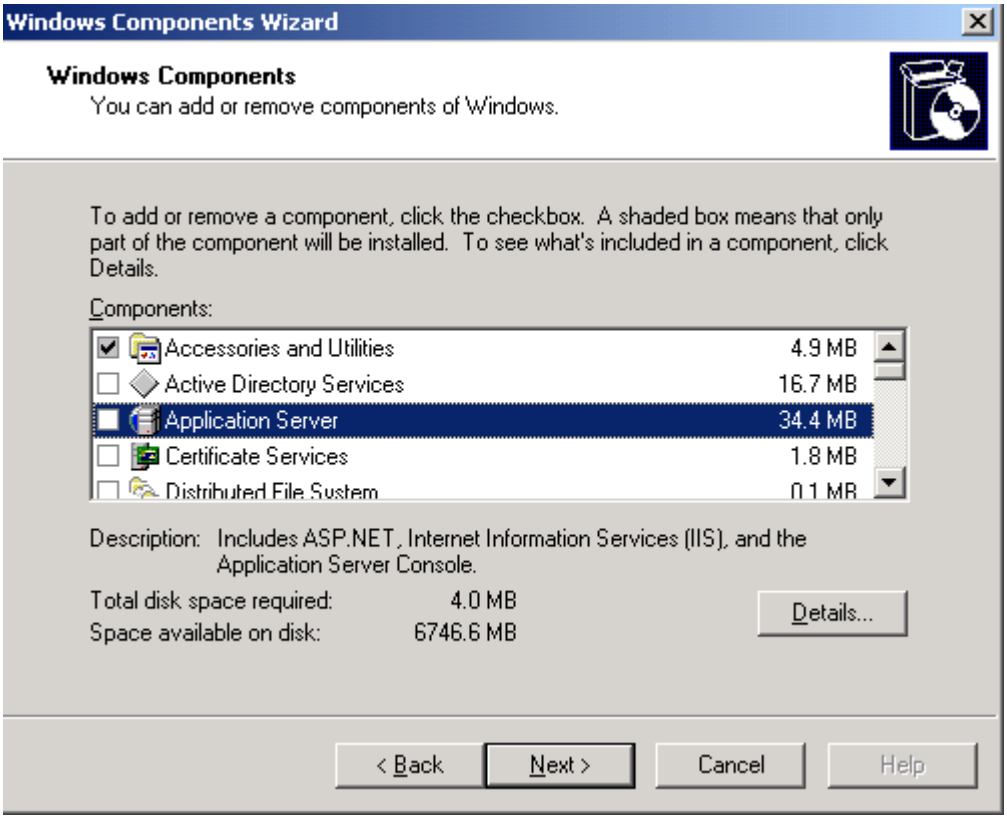
Click Save. Click OK. Close the application.

Installing Internet Information Services

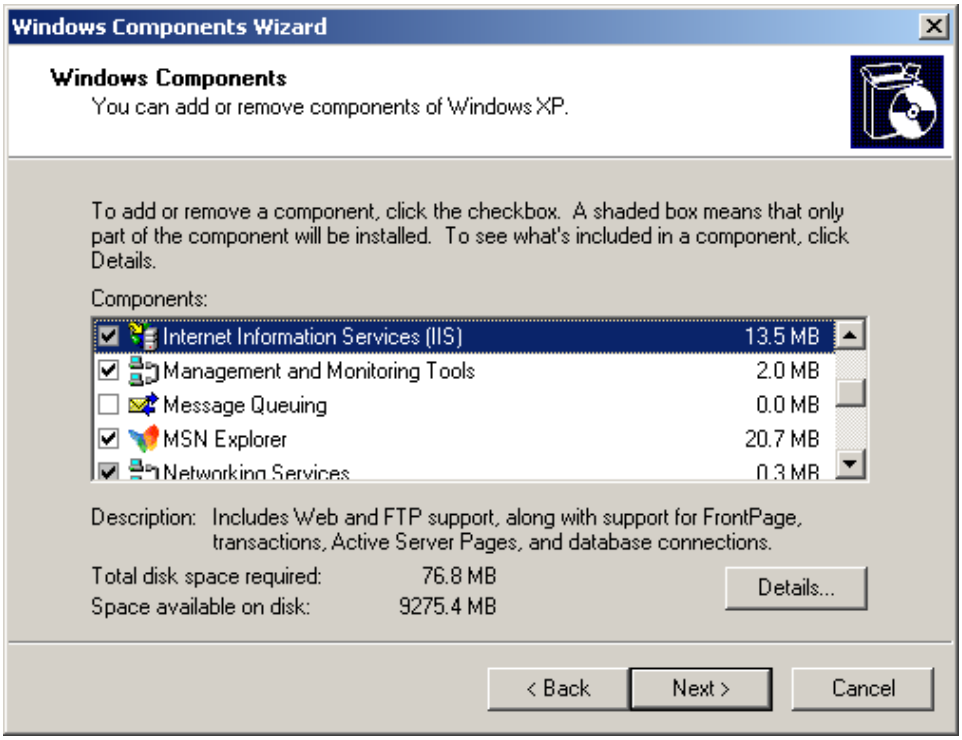
This process shows how to install IIS on Windows Server 2003. Additional information is available on the Microsoft support website. You may be prompted to insert your Windows Operating System disk at the end of this section.

To configure Internet Information Services:

1. Click Start.
2. Select Control Panel.
3. Click Add or Remove Programs.
4. Click Add or Remove Windows Components.
5. Select Application Server and click details



6. Select **Internet Information Services** (IIS).



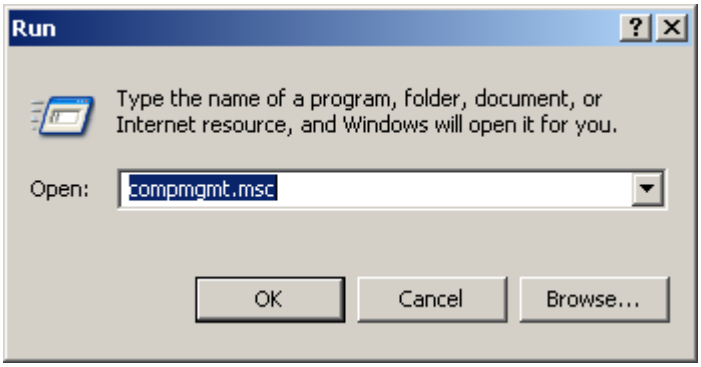
7. Click the **Details** button.
8. Select the following:
    - Common Files
    - File Transfer Protocol (FTP) Service
    - Internet Information Services Manager
    - FrontPage 2002 Server Extensions
    - World Wide Web Service.
9. Click **World Wide Web Service**.
10. Click the **Details** button.
11. Select the following:
    - Active Server Pages
    - Server Side Includes
    - World Wide Web Service
12. Click the **OK** button.
13. Click the **OK** button.
14. Click the **OK** button.
15. Click the **Next** button.
16. Click the **Finish** button.

Close Add or Remove Programs

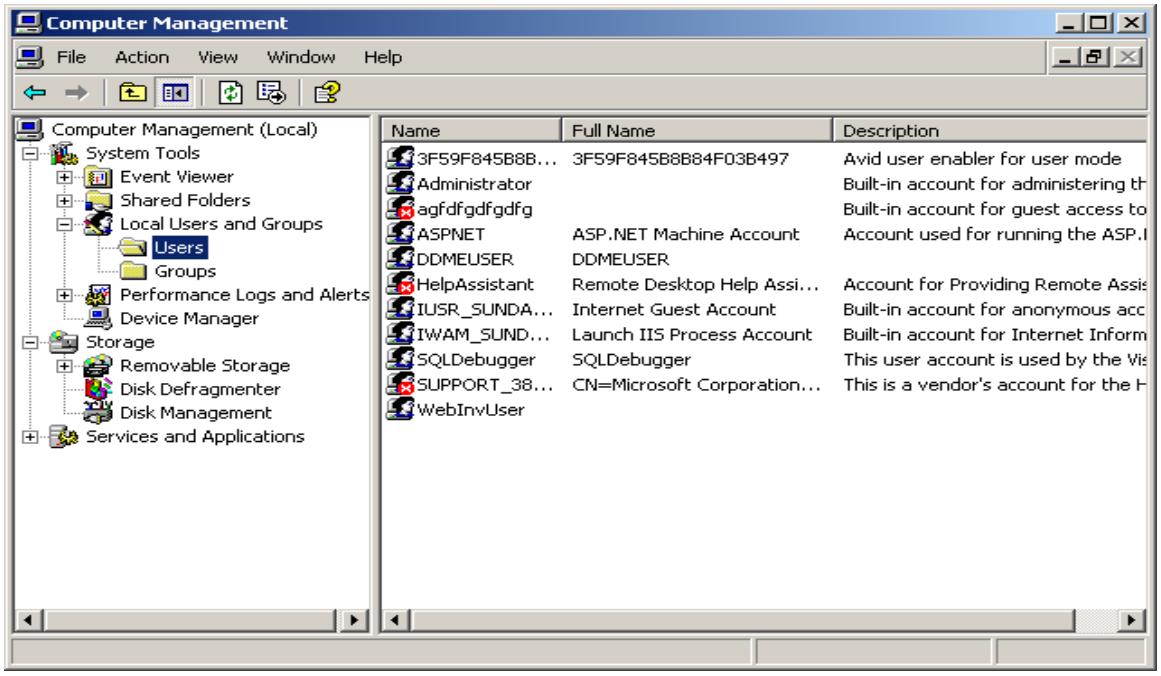
Setting Up a DDME User Login

To setup a DDMEUser login:

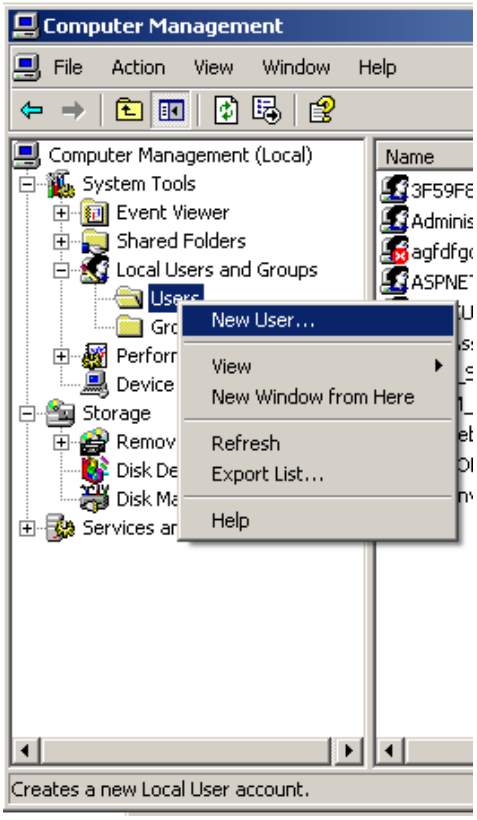
1. Click on the Windows **Start** button > **Run**
2. Type **compmgmt.msc** on the Run prompt and click Ok



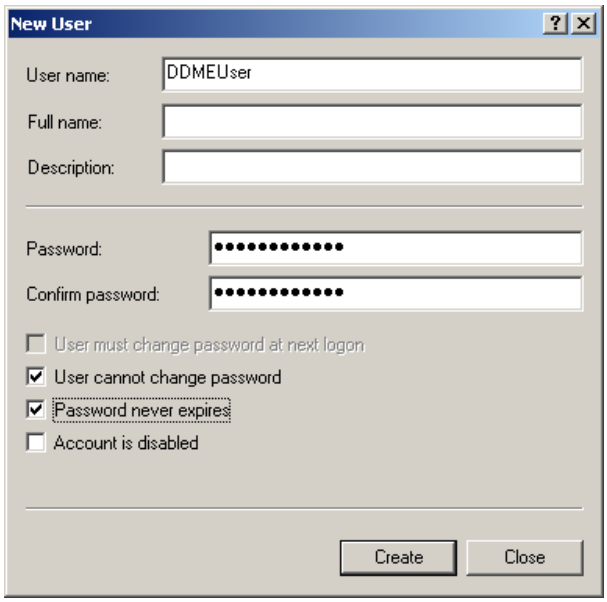
3. Navigate to **Local Users and Groups > Users**.



4. Right-click on the Users folder and select **New User**.

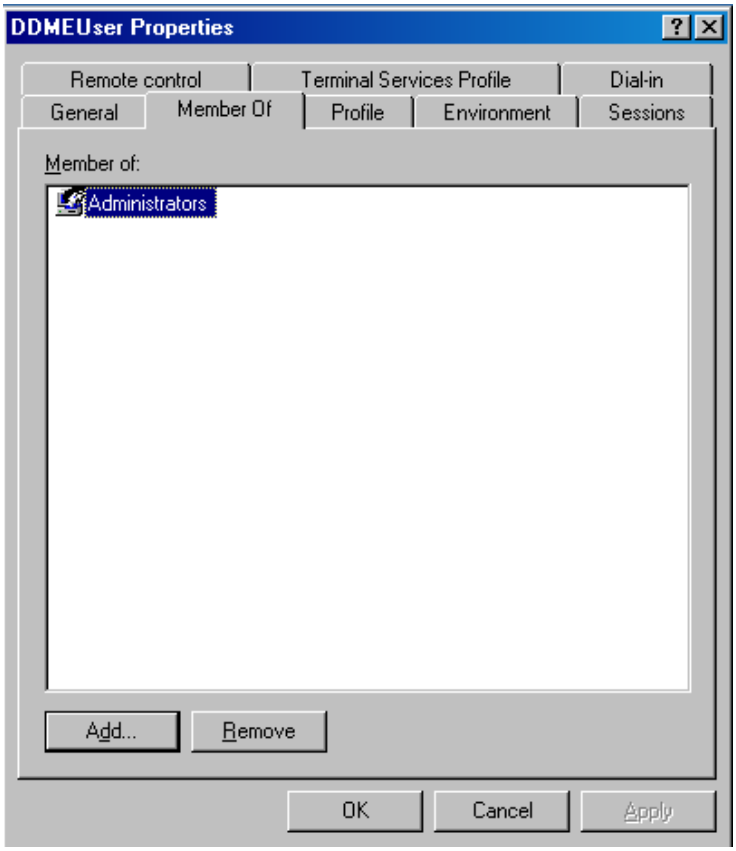


5. Type **DDMEUser** for the **User name** and **Password** (neither is case sensitive). ***If DDME will be configured for UNC transfers from Avid Unity, DDMEUser with same password must be created on the Unity system***.
6. Deselect **User must change password at next logon**.
7. Select **Password never expires**.



8. Click the **Create** button.

9. Add DDMEUser to the administrators group and remove it from the users group



10. Close the **Computer Management** screen.

Installing DDME

To install the DDME Server software:

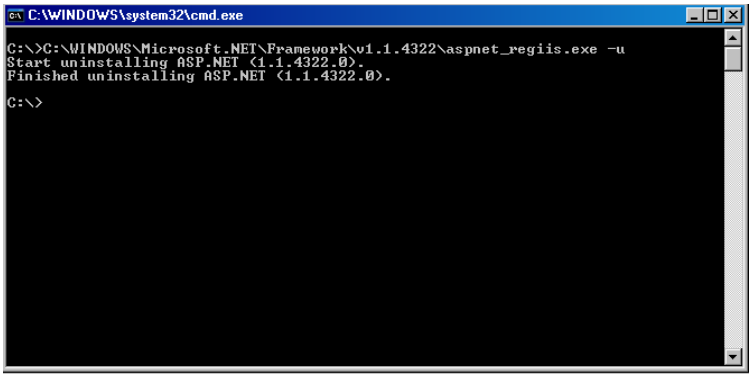
1. Copy the setup files from X:\Sundance_Software\Production_Releases\DDMS-DDME\DDME to the local drive.
2. Double-click the setup installation file.
3. The DDME Web service server window opens.

If the DDME installer displays ASPNET error, go to command prompt and uninstall older versions ASPNET (of any) and install version 2.

If version 1.x is not installed, reinstall version 2

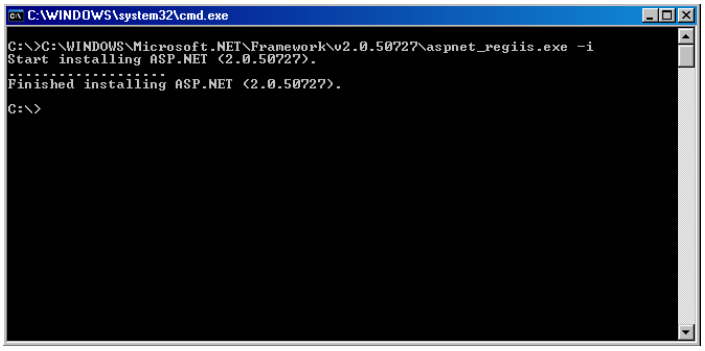
To uninstall version 1.xx go to command prompt and type C:\WINDOWS\Microsoft.NET\Framework\v1.1.4322\aspnet_regiis.exe –u

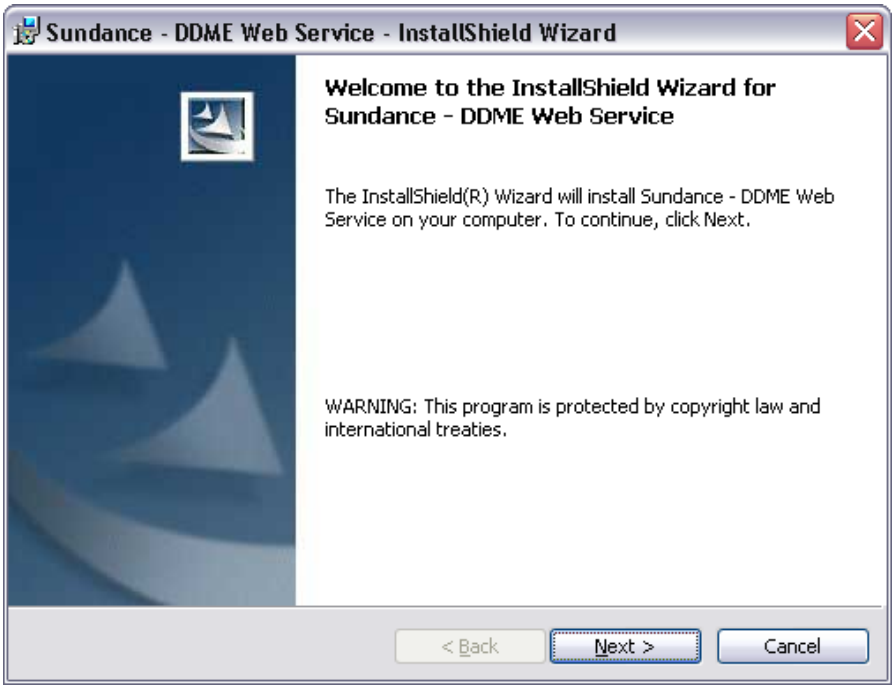
You should see the confirmation below confirming version 1.xx was uninstalled



To install version 2.x type:
C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\aspnet_regiis.exe –i

You should see the confirmation below when ASPNET 2.x was installed

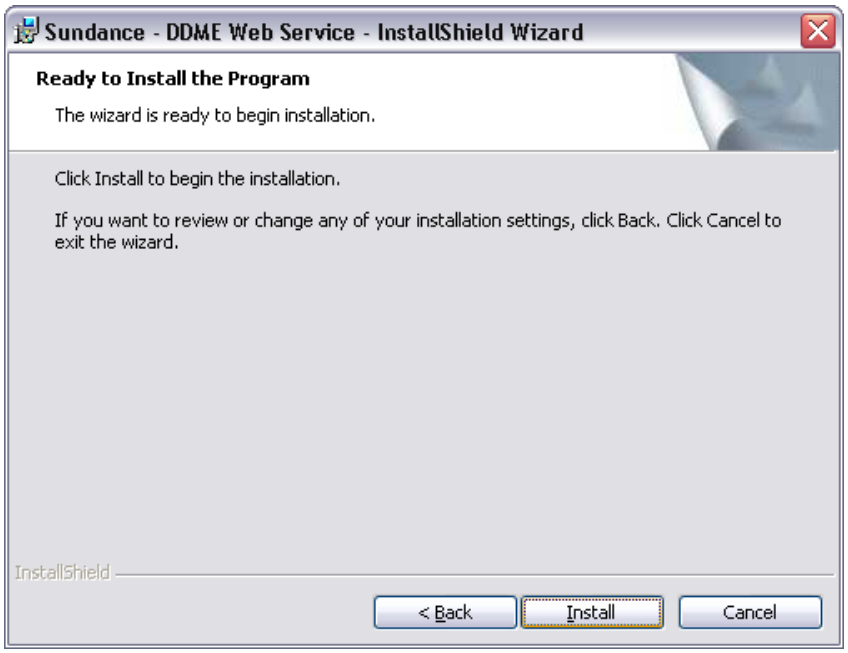




4. Click the Next button to continue.

The EULA opens.

5. Review the agreement then click the Next button.

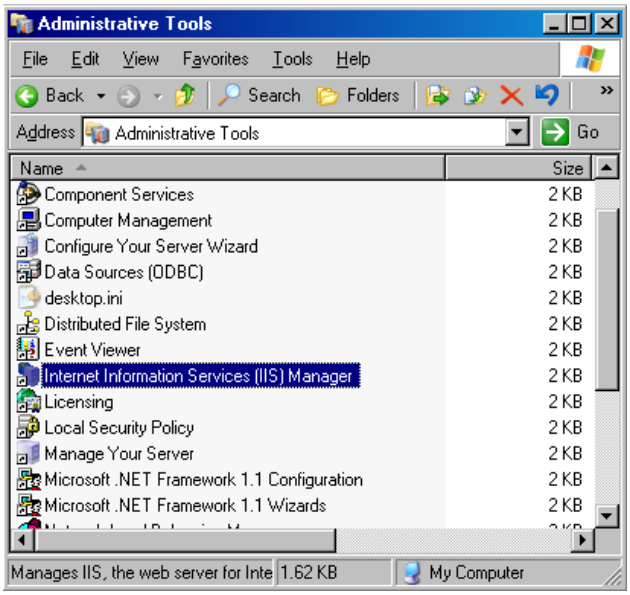


6. Click the Install button and follow the instructions in the InstallShield Wizard.
7. When the installation completes, click the Exit button.

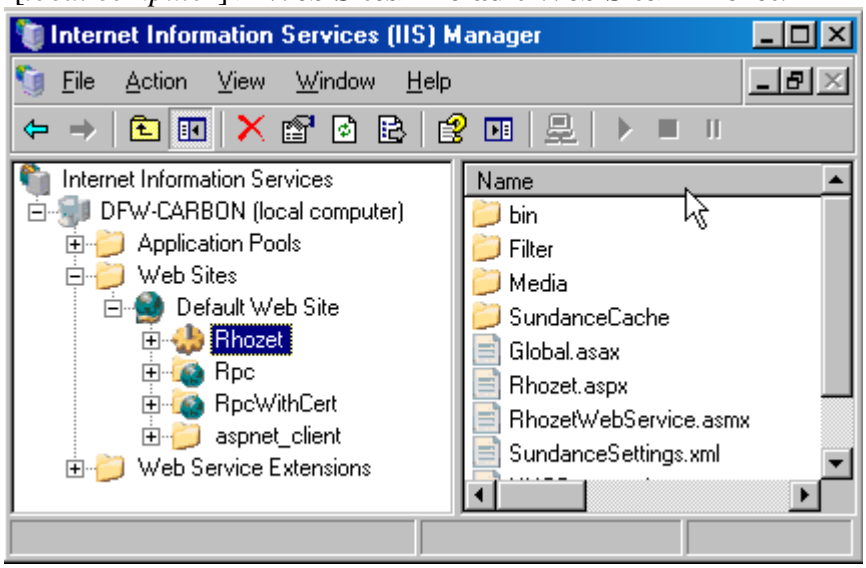
Adding the DDMEUser to the DDME Rhozet Web Service

To add the DDMEUser to the Rhozet Web Service:

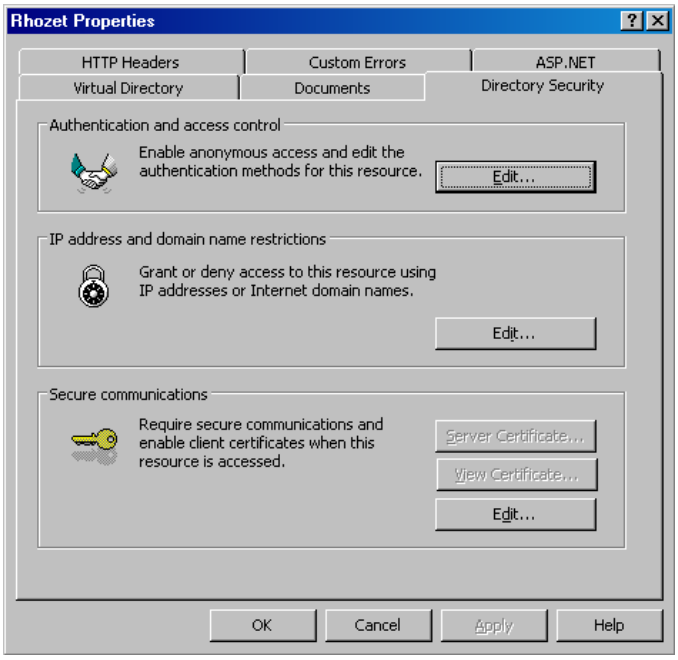
1. Open **Administrative Tools** in the **Control Panel**.
2. Open **Internet Information Services (IIS) Manager**.



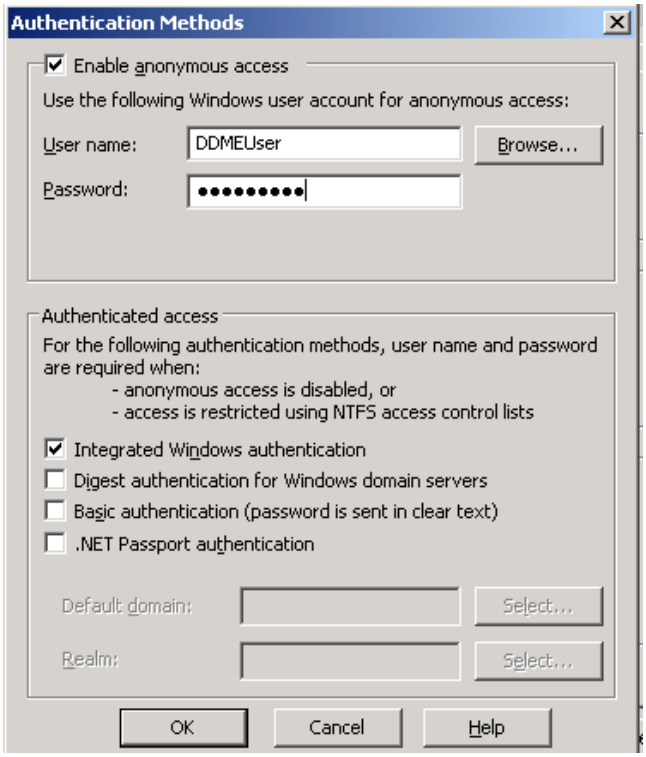
3. Navigate to [*local computer*] > **Web Sites> Default Web Site> Rhozet**.



4. Right-click **Rhozet** and select **Properties**.
5. Click the **Directory Security** tab.

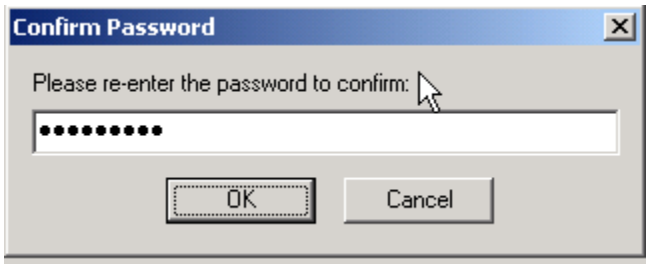


6. Click the **Edit** button under **Authentication and access control**.
7. Type DDMEUser and the password this account. ***Ensure the computer name doesn't precede the user ID, if it does delete the computer name***

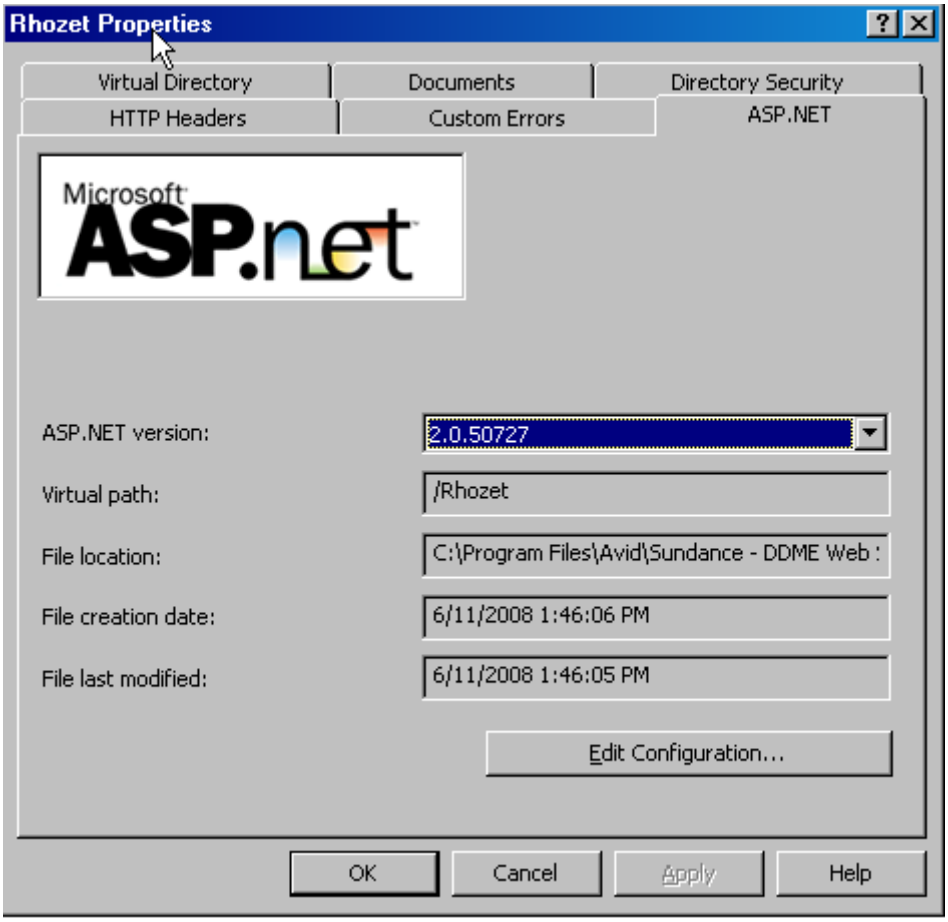


8. Retype the password **DDMEUser** (not case sensitive).

9. Select **Integrated Windows Authentication**.
10. Click **OK**.

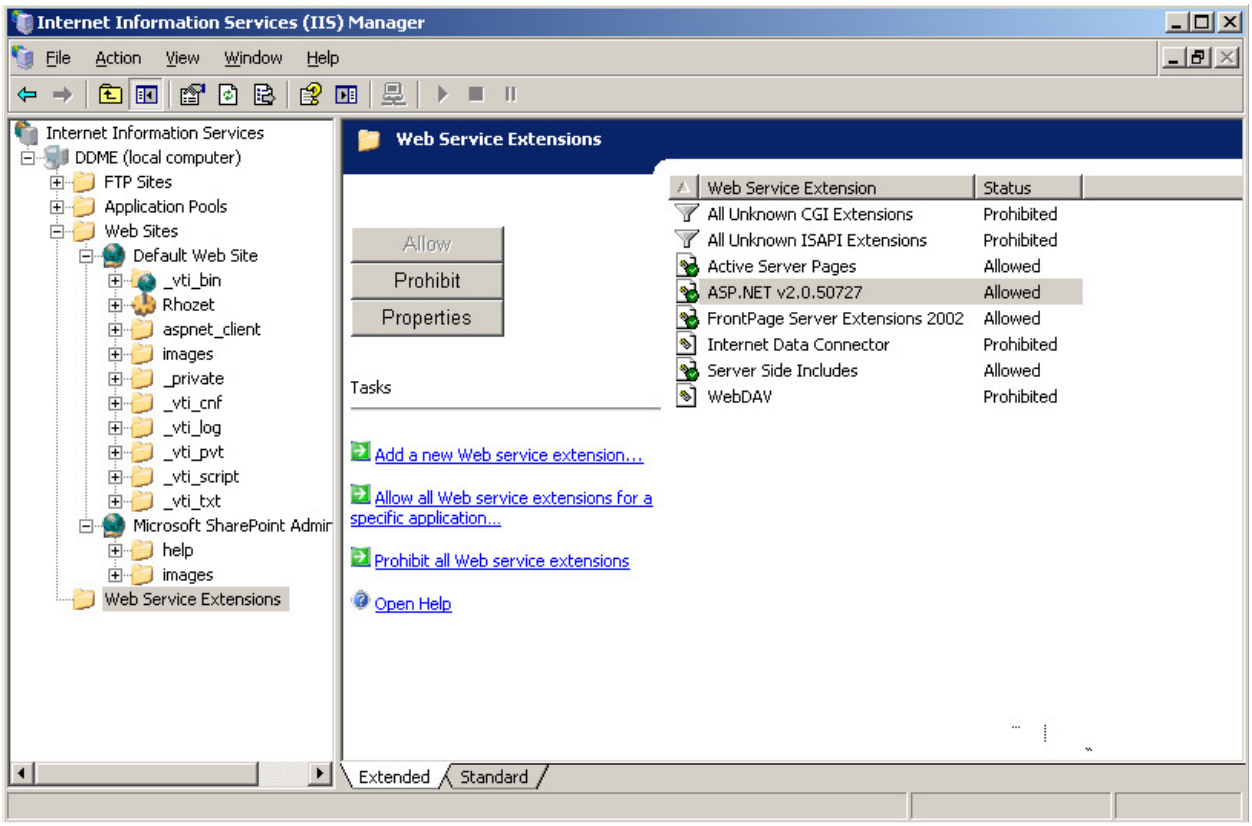


11. Retype the password.
12. Click the **ASP.NET** tab.



13. Validate that the ASP.NET version is **2.0.50727**.
14. Click the **OK** button.

Go to Web Service Extensions in IIS Manager and confirm that ASP.NET 2.0.50727 is allowed. If not, highlight ASP.NET 2.0.50727 and click Allow



You should be using the 2.0.50727 – **run the commands below only if there are multiple versions of ASP installed**

- Browse to c:\windows\microsoft.net\framework.
- Open up a command prompt.
- Type C:\WINDOWS\Microsoft.NET\Framework\v1.1.4322\aspnet_regiis.exe –u.

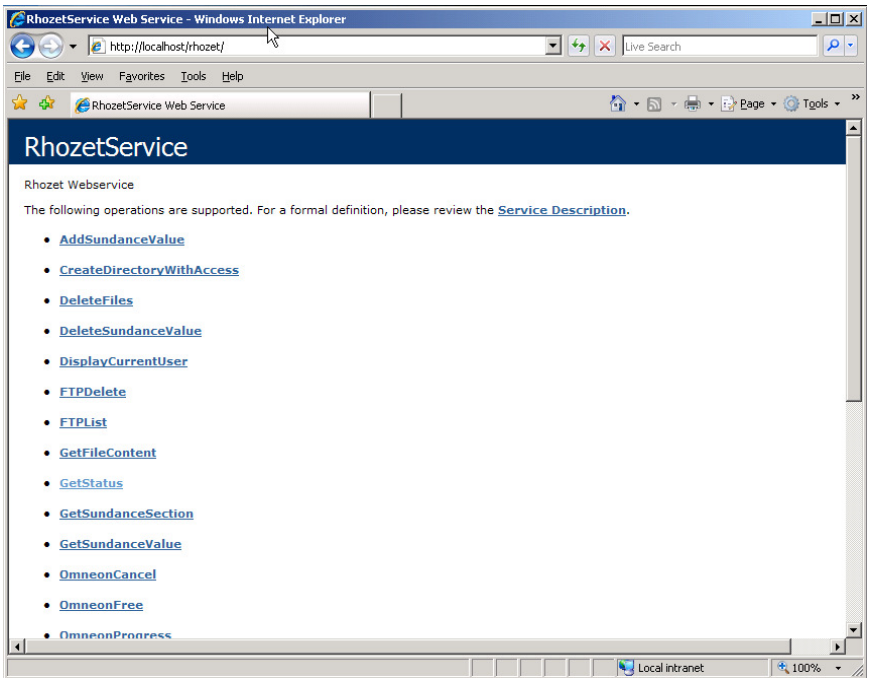
Type: C:\WINDOWS\Microsoft.NET\Framework\v2.0.50727\aspnet_regiis.exe –i.

Close the ISS manager.

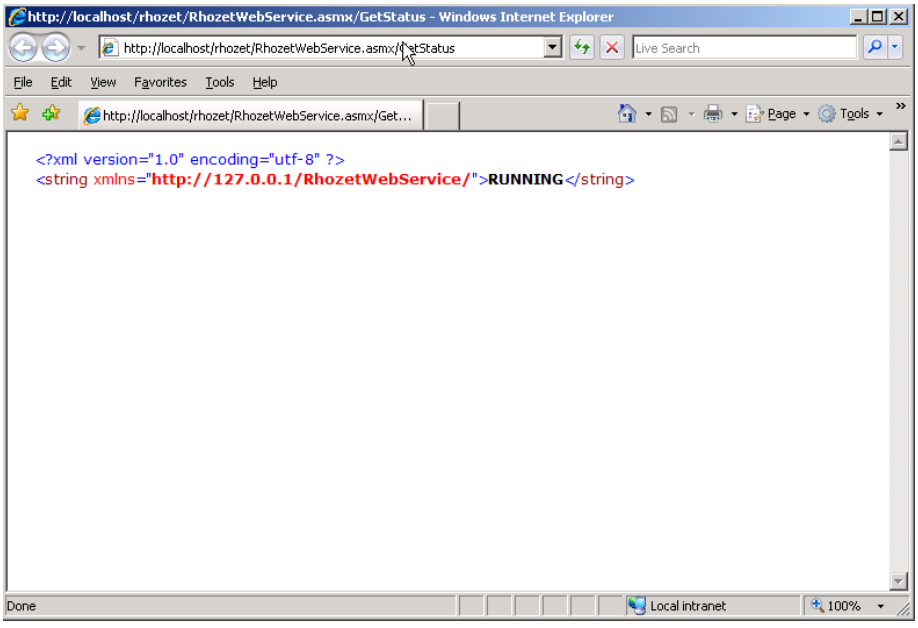
Verify the Web Services install

In IE type http://localhost/rhozet

The screen below should appear



Click on GetStatus link and then click on Invoke button – should see the screen below



Close the window

Setting DMG Transfer (PathFire)

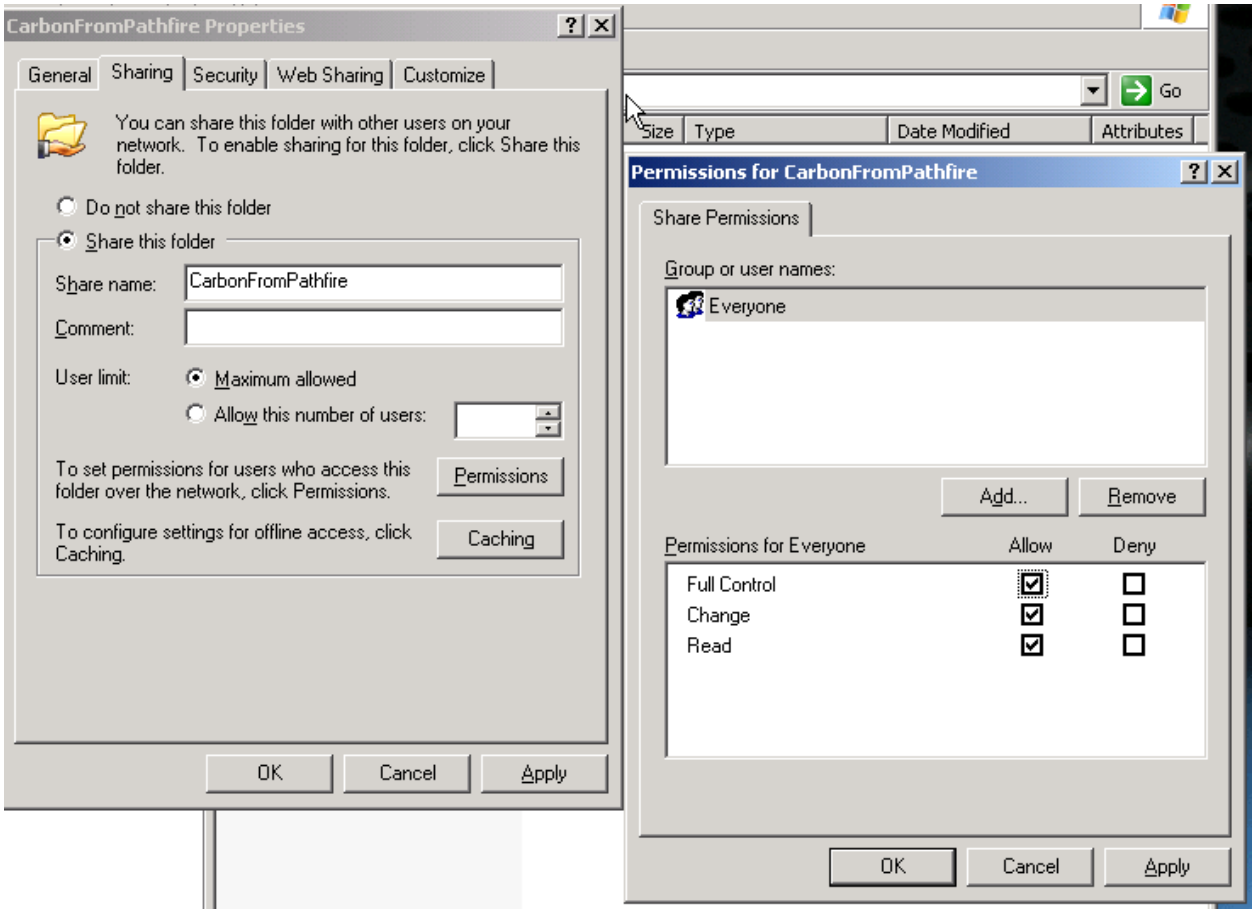
This step is needed only if the site uses PathFire

DMG Transfer must be installed on DDME machine

Send the MAC address for the DDME machine to PathFire so they can create license file. If the machine has multiple network cards use the MAC address of first card.

Create a directory 'CarbonFromPathfire'on drive that has at least 75GB of free space and share it. In this example we are using D:\ drive

Share the folder with the same name and grant everyone full control on the share level

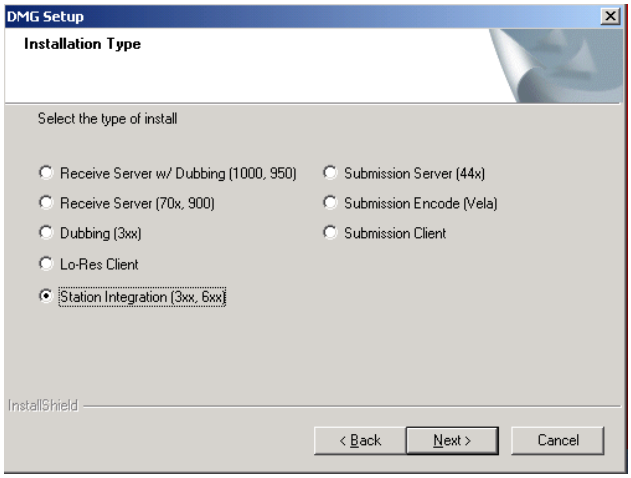


Confirm the share is accessible by typing \\ddme\carbonfrompathfire from another computer on the network. DDME is the machine name in this example.

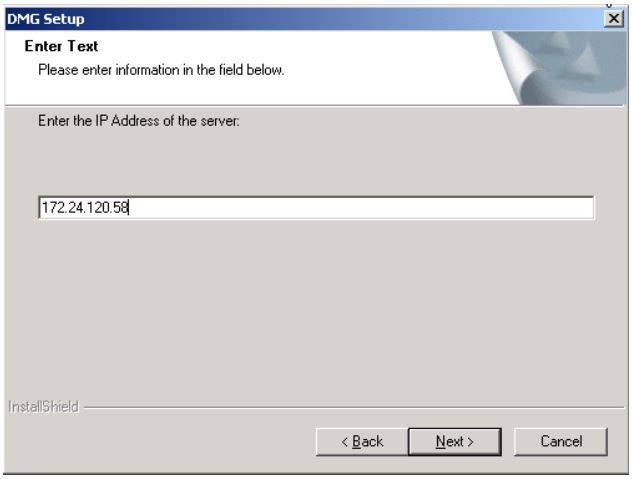
The PathFire install is located on X:\Service\Approved Sundance Software\DDMS-DDME\PathFire

Run DMGMASTER40IT79.exe

Select Station Integration (3xx, 6xx) and click Next



Enter the IP address of the DMG Server (PathFire) that DDME will be pointed to. If the station has multiple DMG Servers, point it to the one that stores the main database. Work with station engineer and\or PathFire support assistance

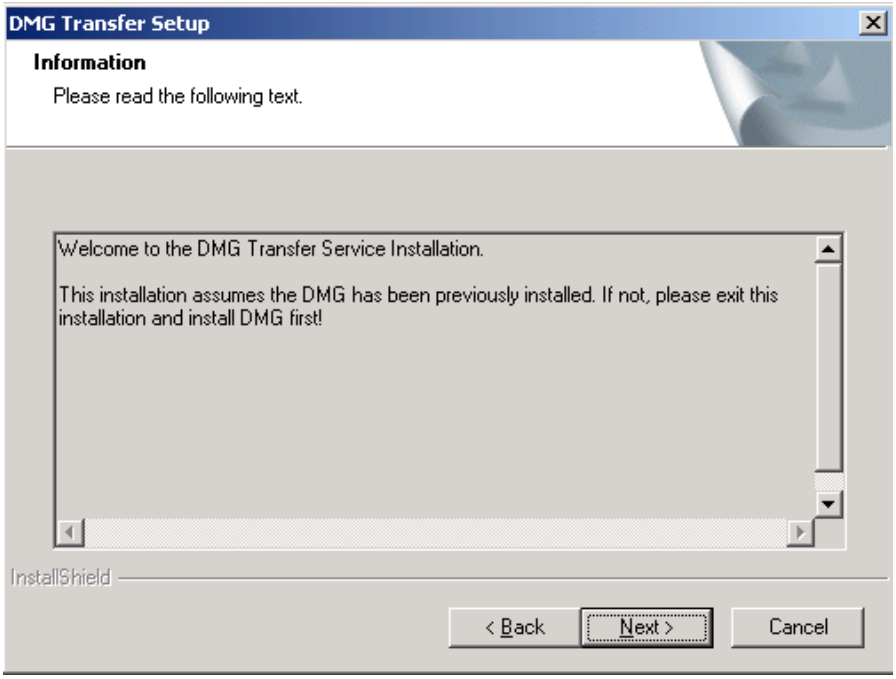


No need to restart computer

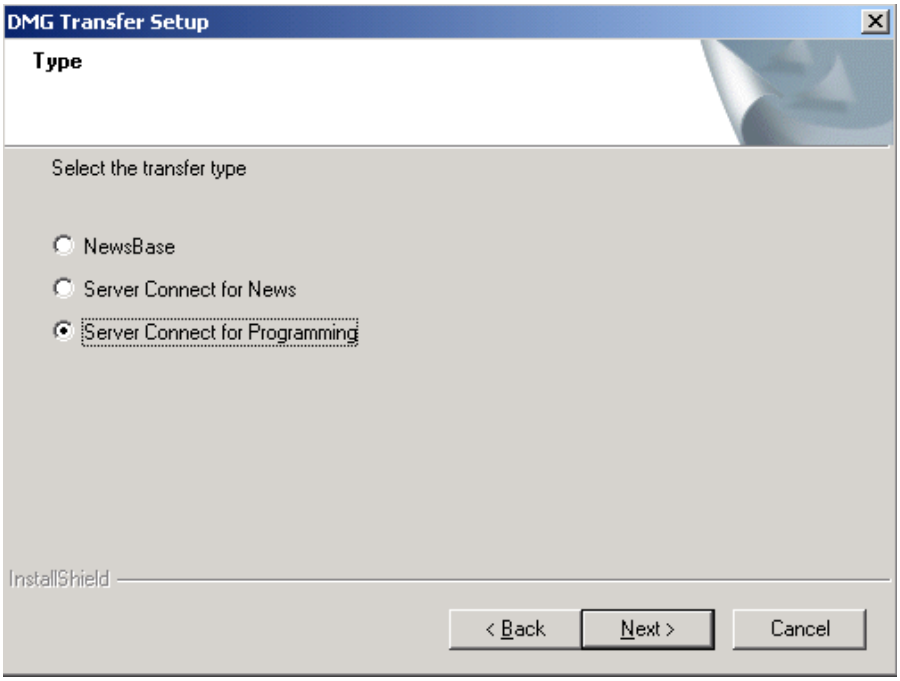
Run DMGMASTER.exe to upgrade to current version

No need to reboot

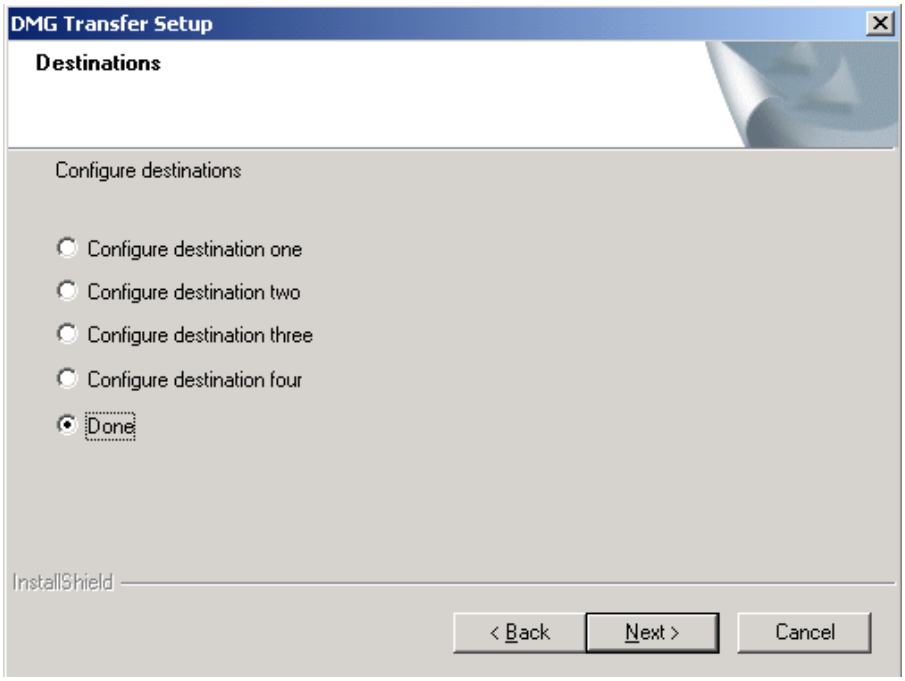
Run DMGTRANSFER.exe to install the Transfer service



Select Server Connect for Programming



Select Done on destinations – will show how to modify the samples in beta folder in next step



Go to C:\Program Files\pathfire\dmg\skippy\dat

Copy the license.dat supplied by PathFire to the directory above

Copy the appropriate transfer file X:\Service\Approved Sundance Software\DDMS-DDME\PathFire\TransferSamples to the directory above and save it as transfer.xml. If there is another transfer.xml, rename it to old.

Open the transfer.xml with notepad or other text editor and delete the unneeded devices. PathFire supports up to 4 devices (destination servers) for transfer, if the station only has one server there is no need to keep and display other destinations. Example to leave only one device

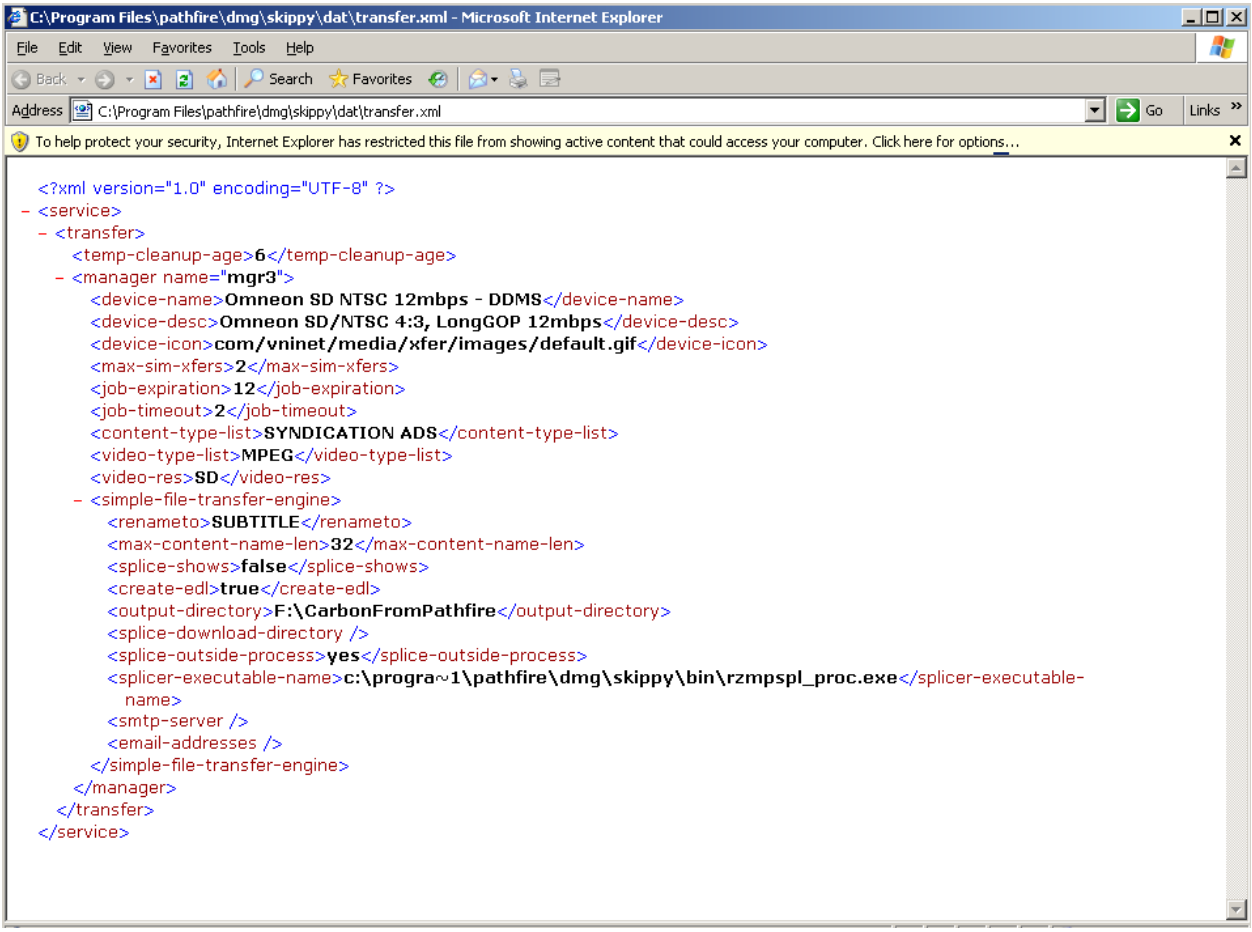
Select everything from <manager name="mgr"> to and including </manager> above </transfer> and delete.

Confirm that value in <device-name> matches exactly the name of the preset in Carbon Coder Admin

Change the output directory to match the path to CarbonFromPathfire – in this example D:\ drive

<output-directory>D:\CarbonFromPathfire</output-directory>

Save the file an open it with Internet Explored to confirm format it should look like the example below



If the XML is not formatted correctly repeat above steps with another sample file.

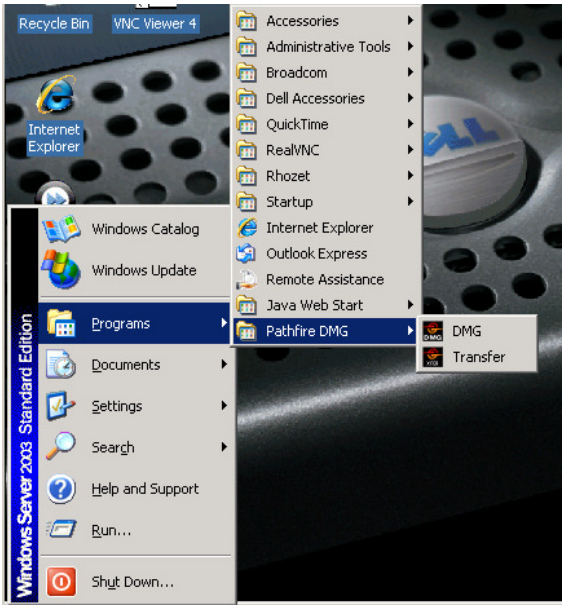
If DMG Transfer was installed off site, open C:\Program Files\pathfire\dmg\skippy\dat**skippy.properties** with text editor and confirm the IP address in following lines. The IP should match that of the PathFire box at the station.

server.address=**172.24.120.58**

db.url=jdbc:mysql://**172.24.120.58**:3306/

dmg.db.url.primary=jdbc:mysql://**172.24.120.58**:3306/dmgdb

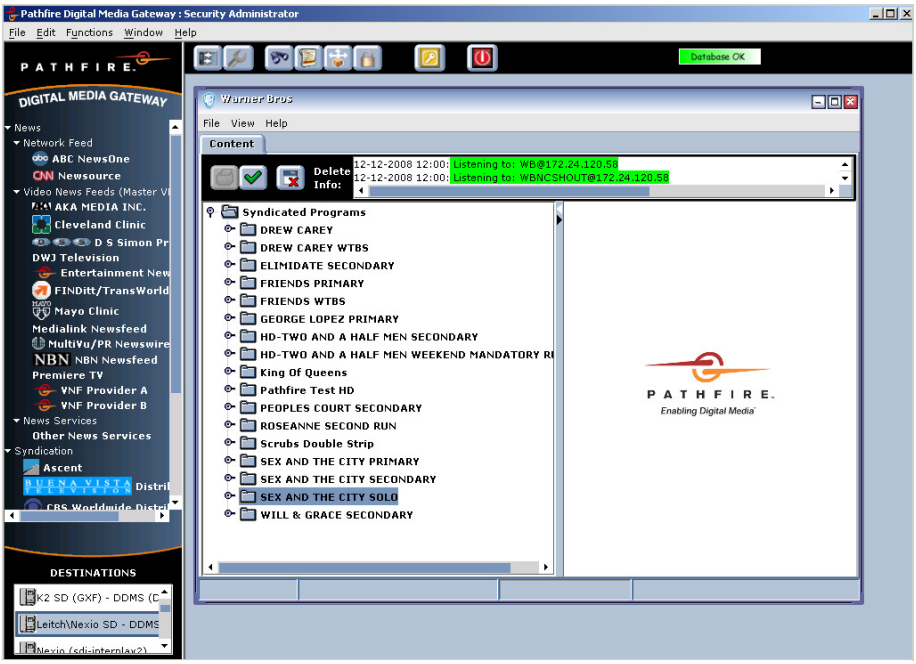
Go to Program Files, PathFire and start Transfer



Go to Program Files, PathFire and start DMG

The user ID is admin, no password

Confirm that DMG Transfer can see the DMG Server and the destination (lower left corner) is listed



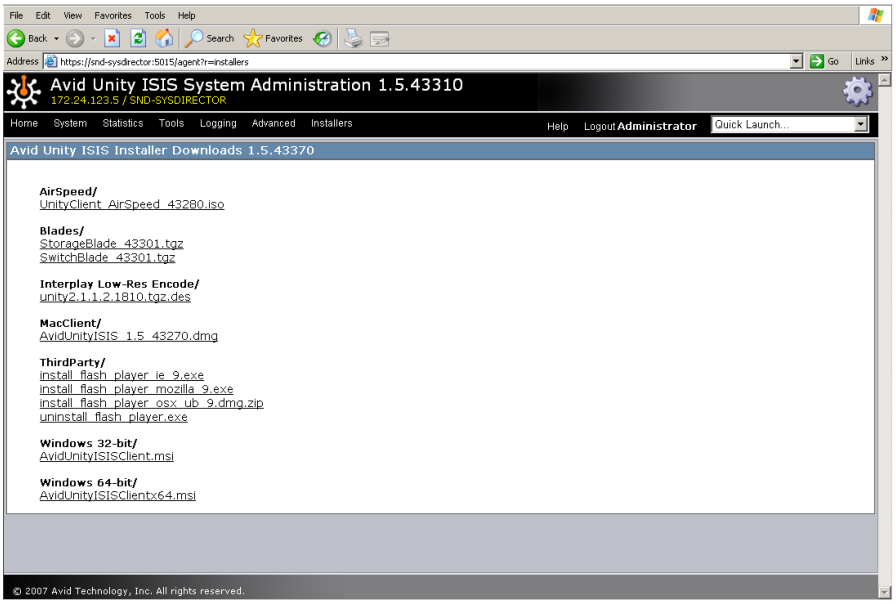
Above example has multiple connections, thus the multiple destinations. At the station, only configured destinations will be visible.

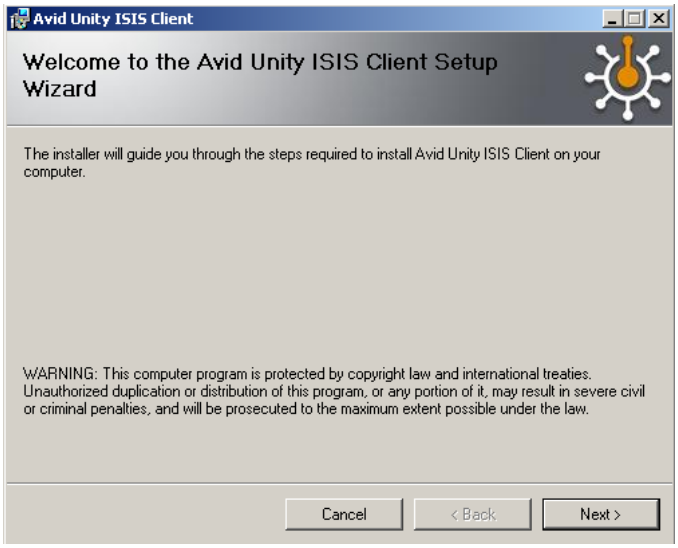
Setting Unity ISIS Client

This step is optional – install only if the station has Avid Unity and DDMS will pull clips from Unity

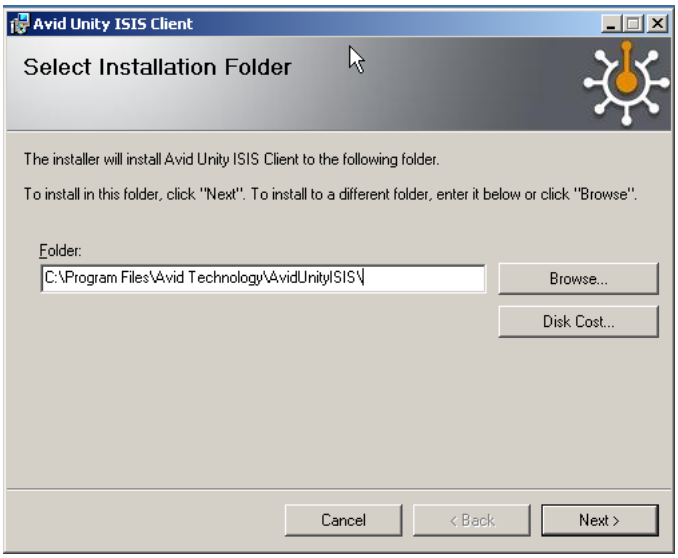
Logon to the system director and go to the Installers tab.

Download the Avid Unity client for the correct platform and run the install.

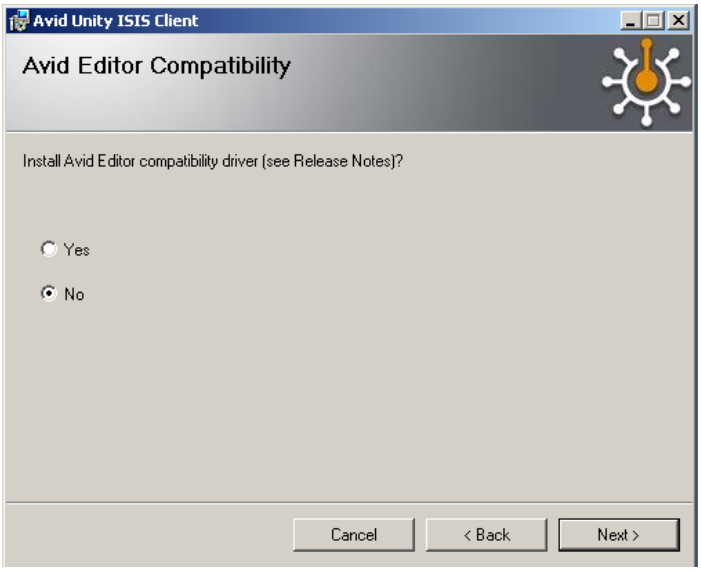




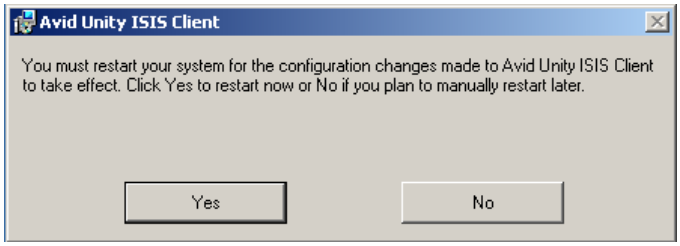
Accept the default install location



Select No for the Avid Editor

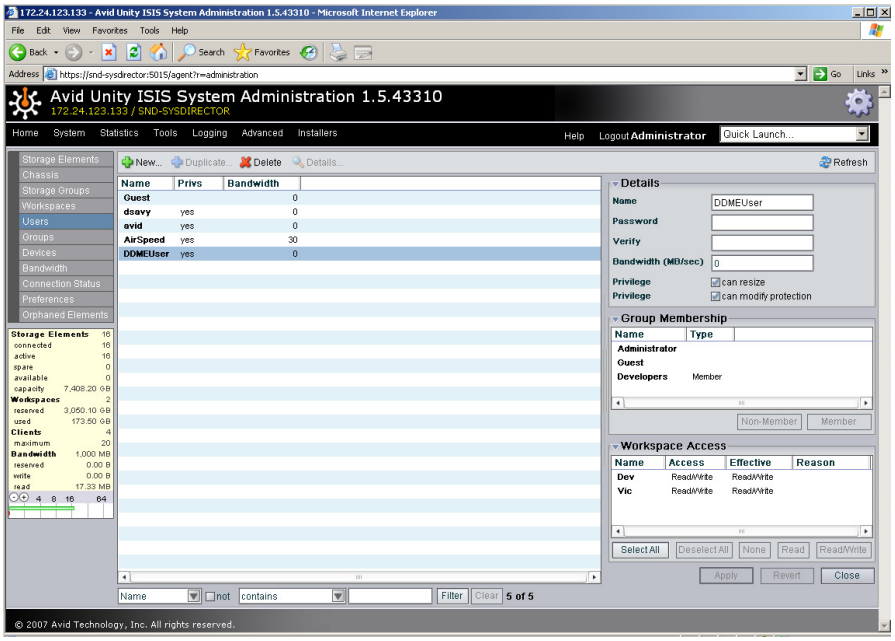


Restart the computer



Create DDME account on Unity – work with Avid engineer or station engineer to access the System Director

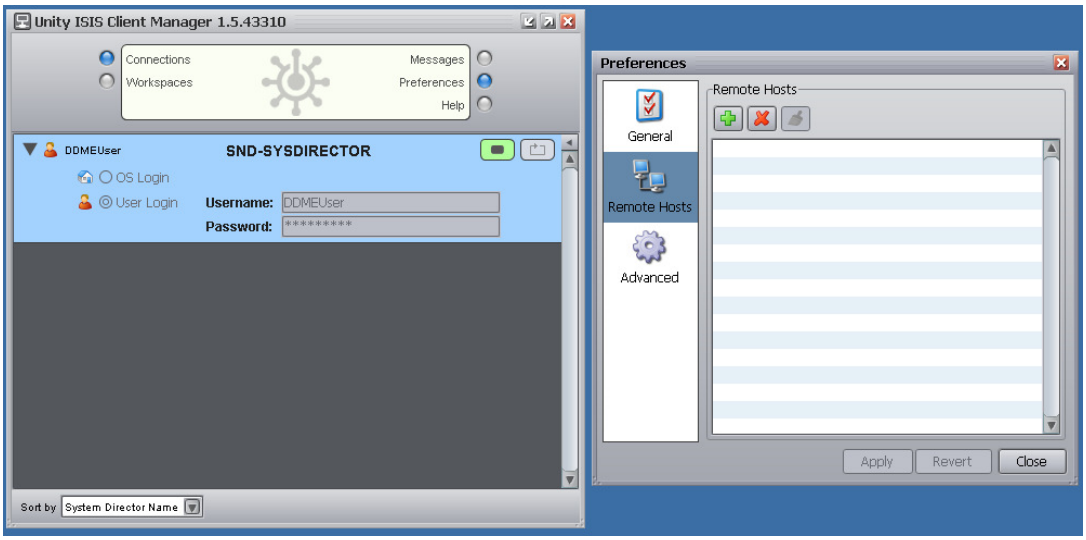
Go to the users section and create DDMEUser, set the same password as in the Windows DDMEUser account. Note: Avid has min length for password and upper case\number requirement – you may have to change the Windows password to match Avid



The Client should display the correct system director (SND-SYSDIRECTOR in the example) connection.

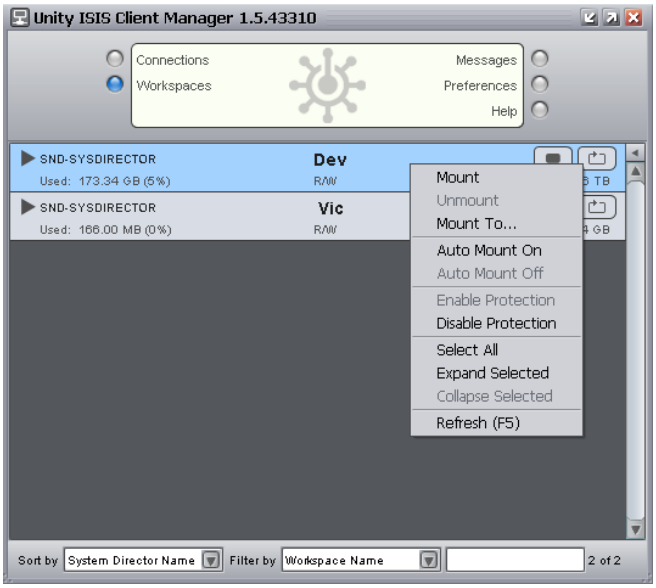
If not, click Preferences, Remote Hosts (screen on the left) and add the name\IP address of the system director.

Logon as DDMEUser

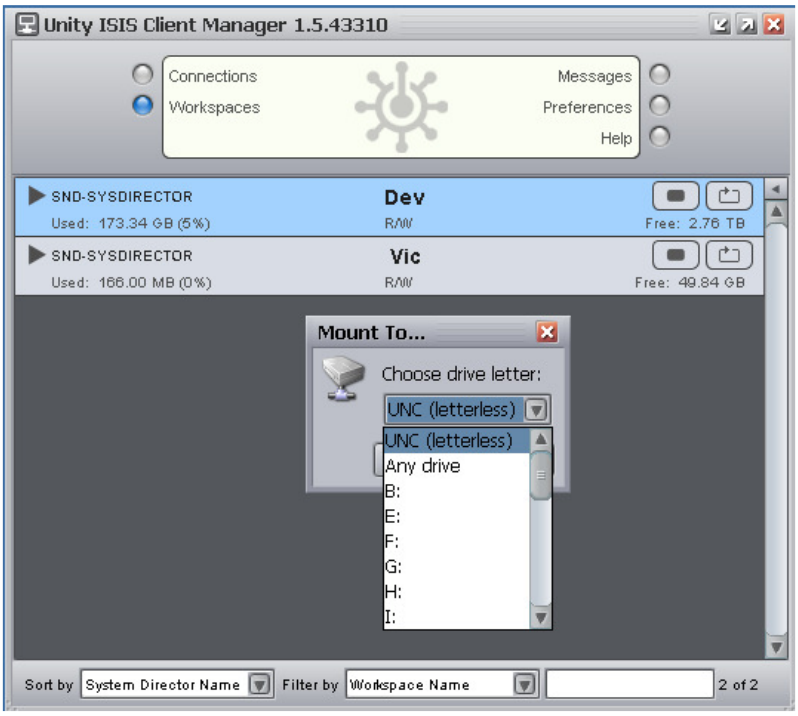


Click on Workspaces

Right-click on the desired workspace (if more than one) and choose Mount To



Mount to drive letter of choice or leave as UNC – check with station on preferences



Setting up DDMS Client Software

Software Requirements

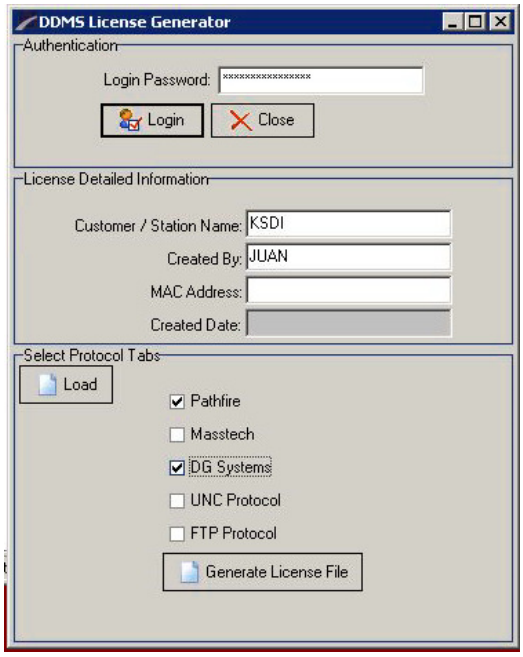
- DDMS.ini
- ConnectionSettings.xml
- DDMS.exe

Description of issues occurring when upgrading from one version to another.

Installing DDMS Client

To install the DDMS Client software:

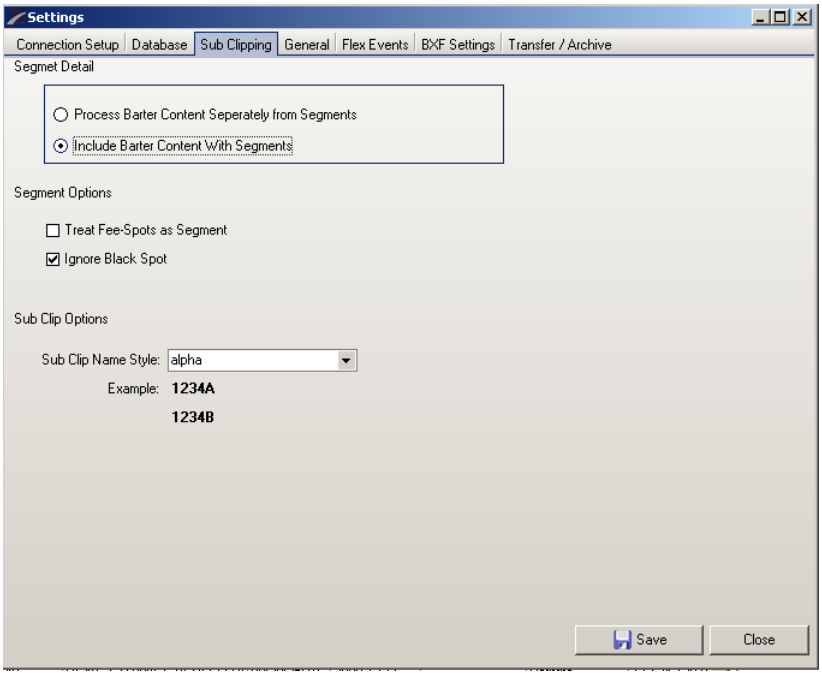
1. Create a DDMS database in the main SQL and run DDMS_XXX_XXX.SQL against the DDMS database
2. Create a DDMS folder on C:\
3. Go to X:\Service\Approved Sundance Software\DDMS-DDME\DDMS
4. Copy DDMS.exe, DDMS.ini and ConnectionSetting.xml to client's DDMS folder
5. Run DDMS-LicenseGenerator\ DDMSLicenseGenerator.exe to create appropriate license file for that station. The Password is sundancesoftware. **Don't copy DDMSLicenseGenerator.exe to station computers**



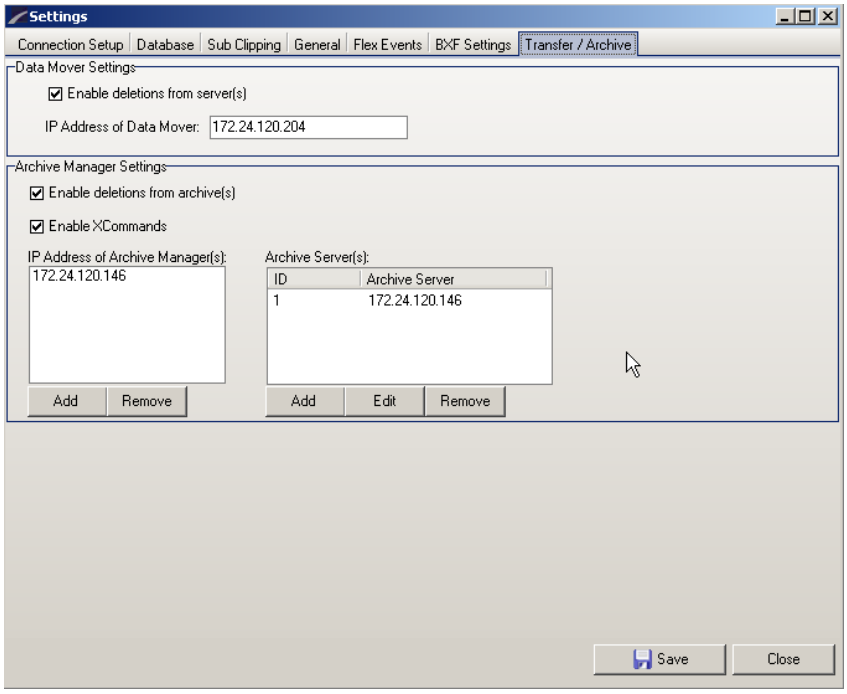
6. Copy the license file to client's DDMS folder

Configuring DDMS

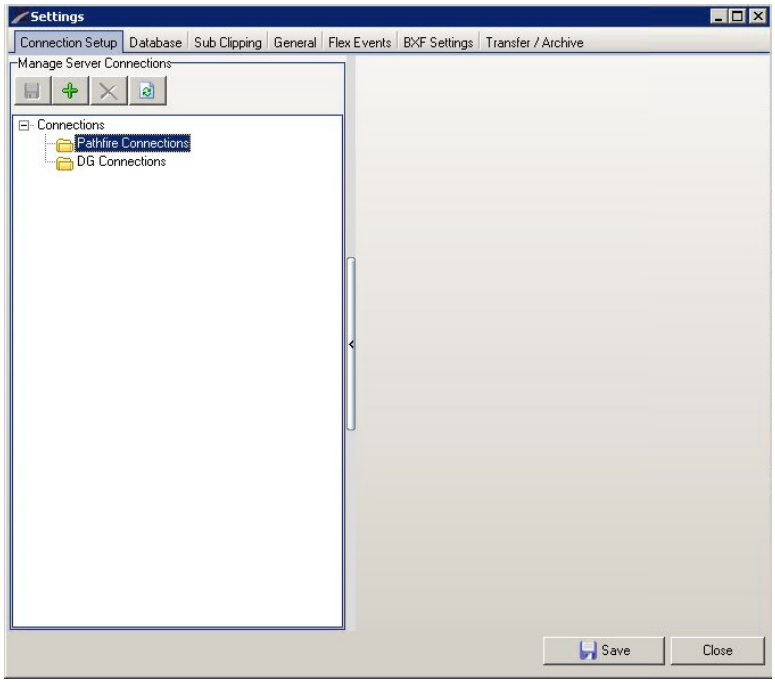
1. Edit the DDMS.ini Enter the Databaseserver (main SQL) save and close the ini file
2. Open DDMS – destinations and PathFire inventory will be blank
3. Go to the Sub Clip tab and confirm the subclip settings match the screen below
   - Include Barter content – includes barter spots in the show subclip. The result is less subclips created
   - Process Barter content separately – each barter spot is treated as separate subclip
   - Ignore Black Spots – tells DDMS not to treat black spot as the beginning of a new segment



4. Go to archive tab and enter the IP address of DataMover, SAM and Archive Server. If DM\SAM are not installed, leave these blank. DDMS uses these entries to send delete commands to server and archive



5. Open connection settings (Option -> Settings)
6. From here you will start defining the connections. You will see a list of connections. That list was created when you ran the License Generator



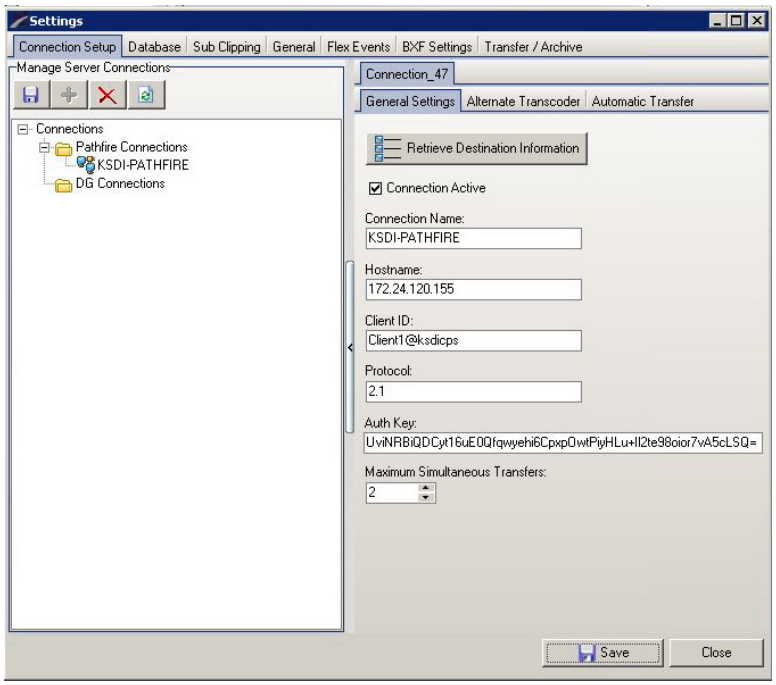
Configuring a Pathfire Connection

1. Select the Pathfire connection and click on the add button (+) Enter a connection name (Station name + DDME or something similar). Click on “Connection Active” check box to activate the connection

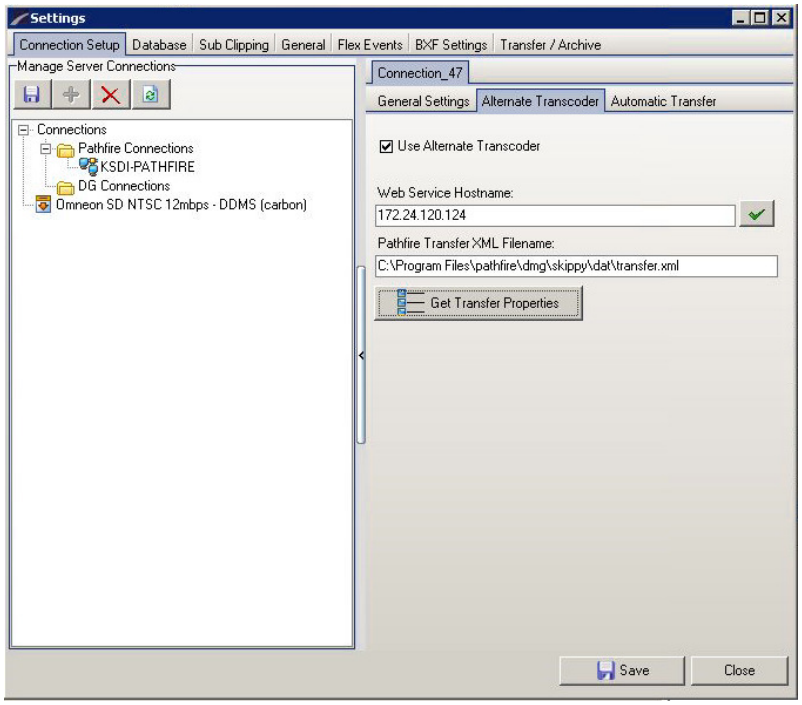
The configuration for Pathfire Connection appears in the table below.

Text Box	Description
Connection Active	Specifies whether the connections should be active when the DDMS application launches.
Connection Name	Descriptive name that DDMS uses to distinguish the connections made for Pathfire.
Hostname	Represents the IP Address or the hostname for the server running the DMG Server Pathfire CPS Service.
Client ID	Authentication information used to be acknowledged with the Pathfire CPS
Authentication Key	Information used to be acknowledged with the Pathfire CPS Service.
Maximum Simultaneous Transfers	Signifies the maximum amount of transfers a Pathfire Connection handles at one time.

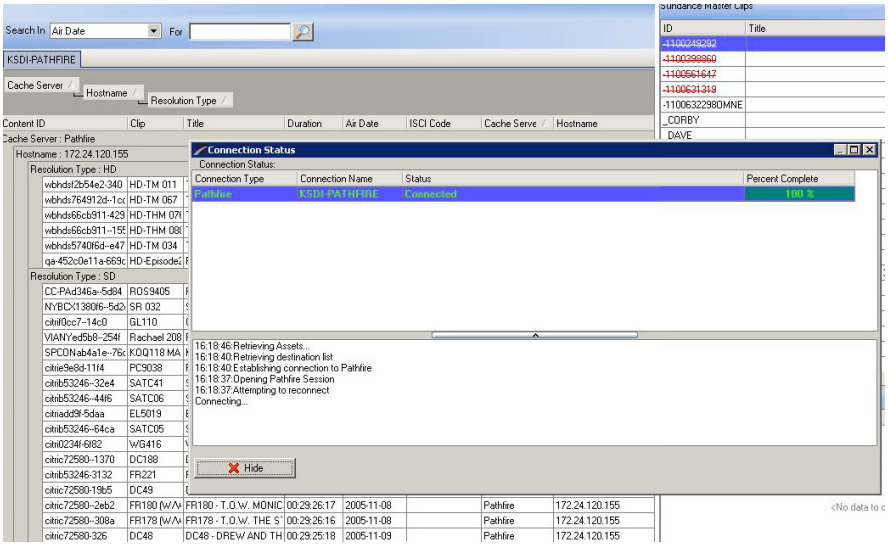
2. Enter host name (PathFire server IP address), Client id and Authorization Key - client id and authorization key will be provided by PathFire. In case you don’t have the Client id you can find it in the PathFire server in VDrive\dmg\skippy\dat\skippy.properties. look for “server.identifier” in the file. Add Client1@ to the “server.identifier” value
3. Set the protocol to 2.1 and max transfers to 2
4. Click on Save



5. If the station is using Rhozet Carbon Encoder continue with step 6. If not go to step 9
6. Click on Alternate Transcoder Tab. Type the web service, that is the DDME computer IP address or hostname in the Hostname textbox

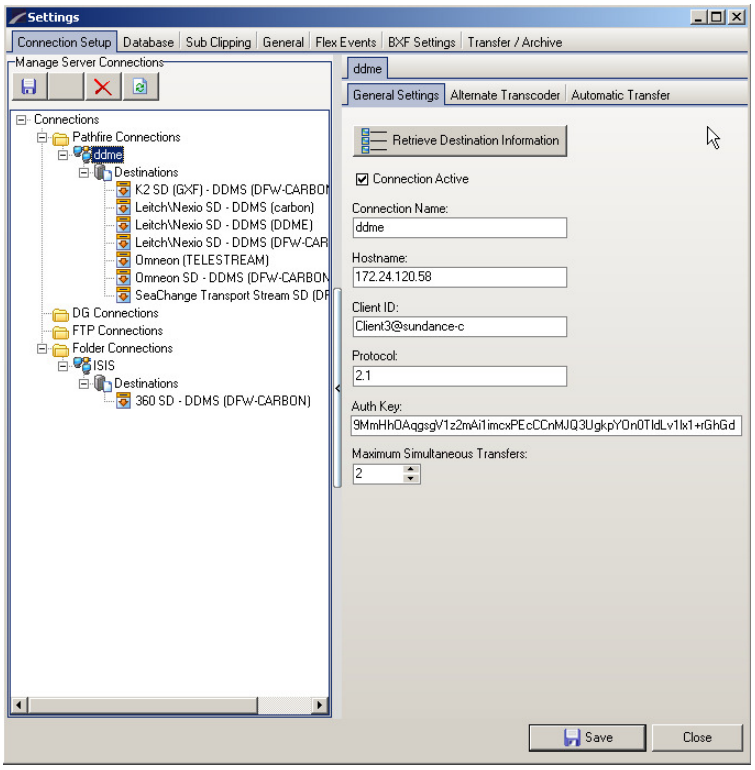


7. Specify the location of the transfer.xml running the Pathfire DMGTransfer.exe service. This file is used to retrieve the destination managers. It is on the same DDME computer. the default path is: C\: Program Files\pathfire\dmg\skippy\dat\transfer.xml
8. Click Get Transfer Properties to retrieve the destination managers to automatically populate with the Pathfire settings.
9. Click on Save. Close DDMS and reopen it. You should see the connection status as "Connected" and the Pathfire content in DDMS



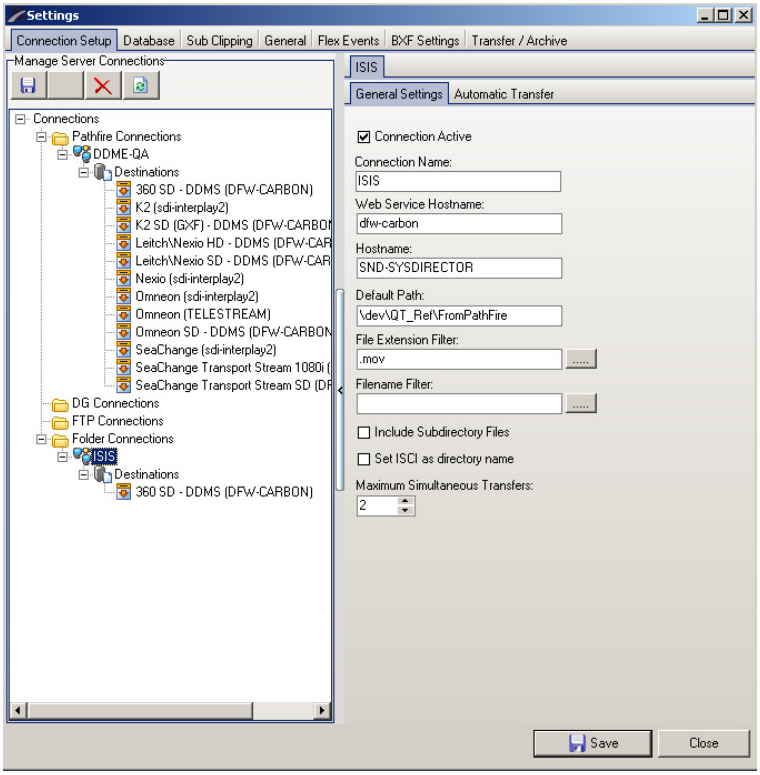
10. Click on the Hide button

Go to connection settings again and click retrieve destinations – destinations should be listed under PathFire connections.



Configure UNC connection for Avid Unity

This step is optional, execute only if Avid Unity is used for UNC



- Connection name – any name that's descriptive enough

- Web Service Hostname – the name of the DDME machine
- Host name – the name of the System Director the ISIS client connects to
- Default path – any path that's present on ISIS, work with station engineer to enter correct path
- File extension filter – optional, if there are multiple media files but only one type is need for transfer
- Leave max transfers to 2

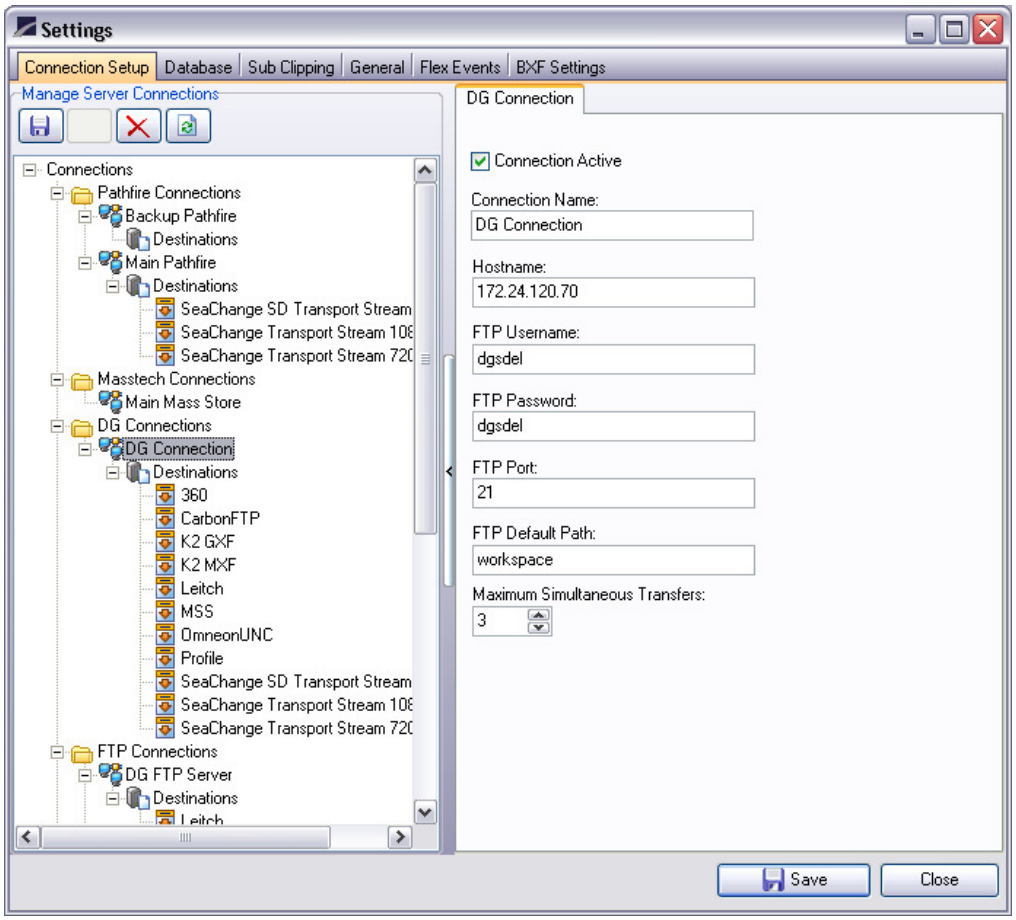
Configuring a DG Connection

To configure a DG Connection:

1. Select DG Connections from the Connections list.
2. Click the Add button on the Manage Server Connections toolbar to add a DG Connection

The configuration for DG Connection appears in the table below.

Text Box	Description
Connection Active	Specifies whether the connections should be active when the DDMS application is launched.
Connection Name	Descriptive name that DDMS uses to distinguish the connections made for DG.
Hostname	Represents the IP Address or the hostname for the server hosting the DG data.
FTP Username/Password	Specify FTP credentials for logging into the DG FTP Server.
FTP Default Path	Represents the path where the assets are located.
Maximum Simultaneous Transfers	Signifies the maximum amount of transfers a DG Connection is setup to handle at one time.



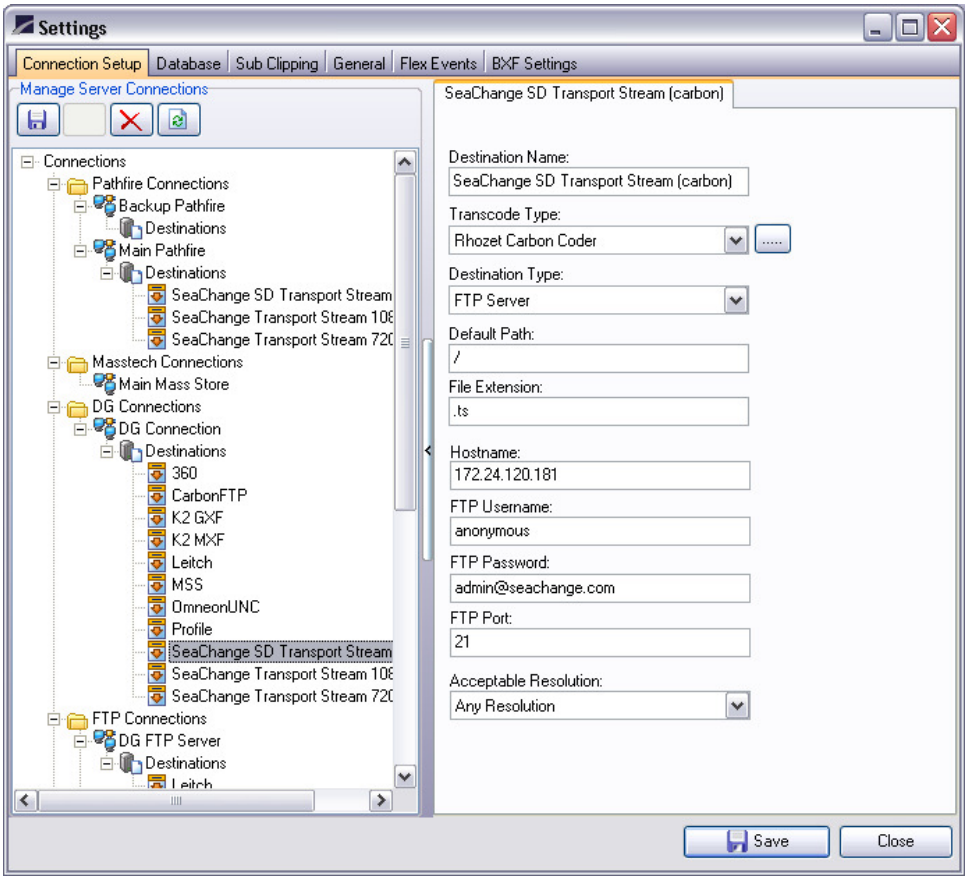
Configuring a DDMS Destination

(If the station has FlipFactory you don't have to do this on the Pathfire destinations)

To configure a DDMS destination:

1. Select the connection's destinations node as shown belowe.
2. Click the Add Button on the Manage Server Connections Toolbar.

A new area that represents the destination information shows on the right.



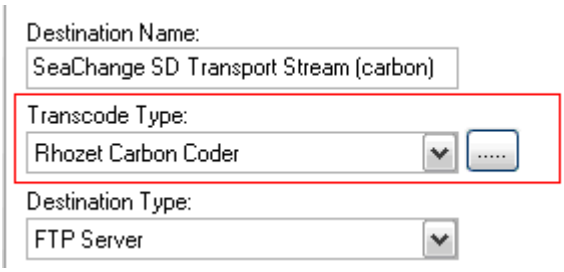
Text Box	Description
Destination Name	Links to the destination where the files are delivered.
Transcode Type	Click the ellipsis (...) button to configure the transcoder settings. The options are Options Rhozet or Telestream. See Setting up Transcoder Settings.
Destination Type	The type of protocol used to deliver to the video server. The options are FTP server delivery or a network path.
Default Path	Where the essence files are located. Note: Omneon path is case sensitive in most cases it will be /FS0/clip.dir but it could also be /fs0/clip.dir. The best way to find out is to FTP from a command line and type pwd (point working directory)
File Extension	The file extension appended to the filename at the delivery stage.
Hostname	The Address or hostname for the video server where the file is delivered.
FTP Username	FTP Information used to deliver files when using a FTP protocol.

Text Box	Description
FTP Password	FTP Information used to deliver files when using a FTP protocol.
FTP Port	FTP Information used to deliver files when using a FTP protocol.
Acceptable Resolution	Restricts the correct asset to be delivered to a destination that supports a certain type of resolution. The options are any resolution, 1080i, 720p and SD.

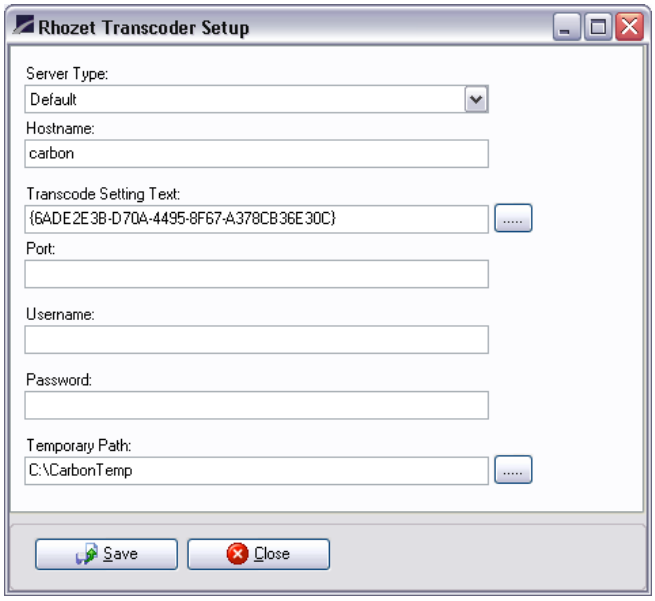
Setting up Rhozet Transcoder Settings

To set up transcoder settings:

1. Click the button next to Transcode Type on the Destination panel.



The Transcoder Setting dialog box opens.

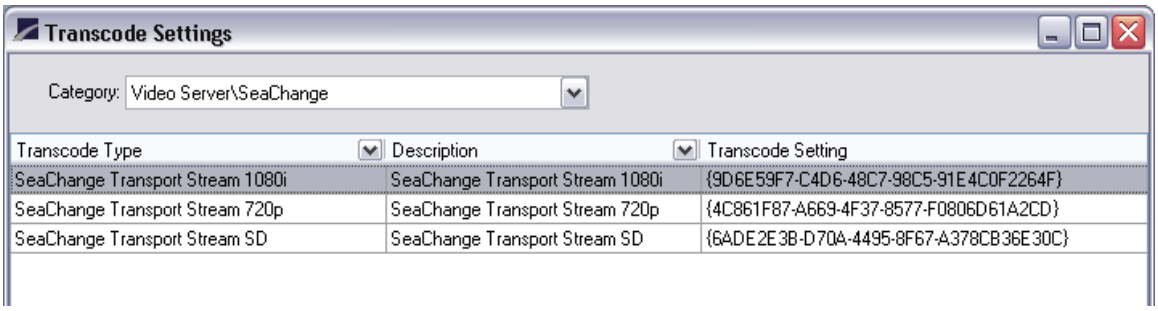


2. Fill the following required text boxes:
   - Server Type
   - Hostname
   - Transcode Setting Text

- Temporary Path.

Text Box	Description
Server Type	The options are Default, 360, K2, Leitch, Omneon, Profile, and Seachange.
Hostname	The IP Address or hostname of the configured DDME web server.
Transcode Setting Text	A unique preset GUID.
Port	
Username	
Password	
Temporary Path	Represents the location where Carbon Coder places temporary files during the transcoding process.

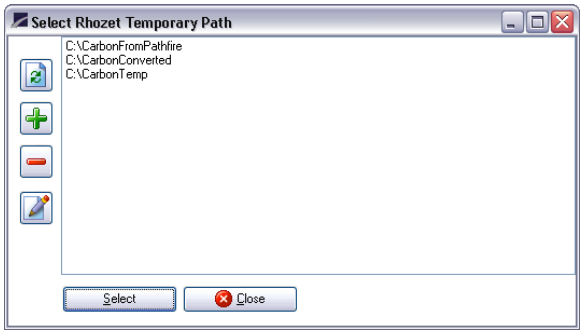
3. Click the ellipsis button to the right of the Transcode Setting Text dialog box to view options.



4. Select the category in which the preset exists.
5. Choose the preset to be used for transcoding.
6. Click the Select button.
7. Click the ellipsis button to the right of the Temporary Path dialog box to view options.

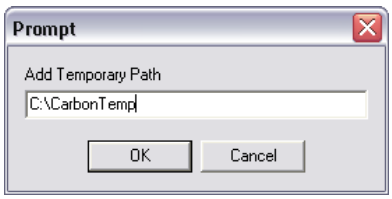
The “Select Rhozet Temporary Path” Dialog appears.

Ensure all directories below are listed (correct path C:\ or D:\). There is a service that runs against these directories and removes old temp files



8. Click the plus button to add a new temporary path.

The Prompt dialog box opens.



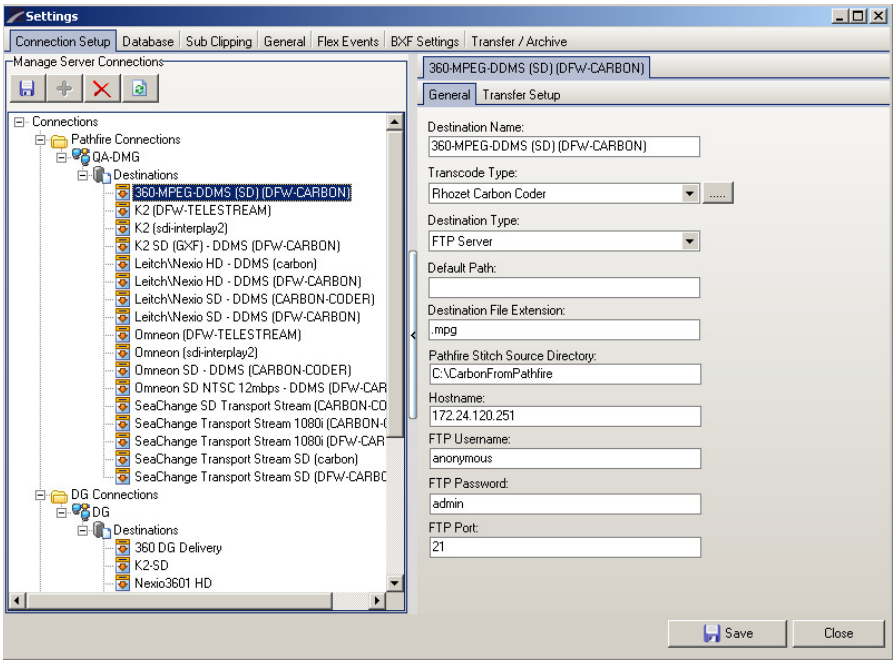
9. Type the new path.
10. Click the OK button.
11. Select the temporary path from the list; normally it should be CarbonTemp
12. Click the Select button.
13. Click the Save button on the Rhozet Transcoder Setup to save the changes.
14. Click the save button on the main settings screen to save the settings for the entire destination configuration.

Examples of DDMS configurations

360 Image Systems

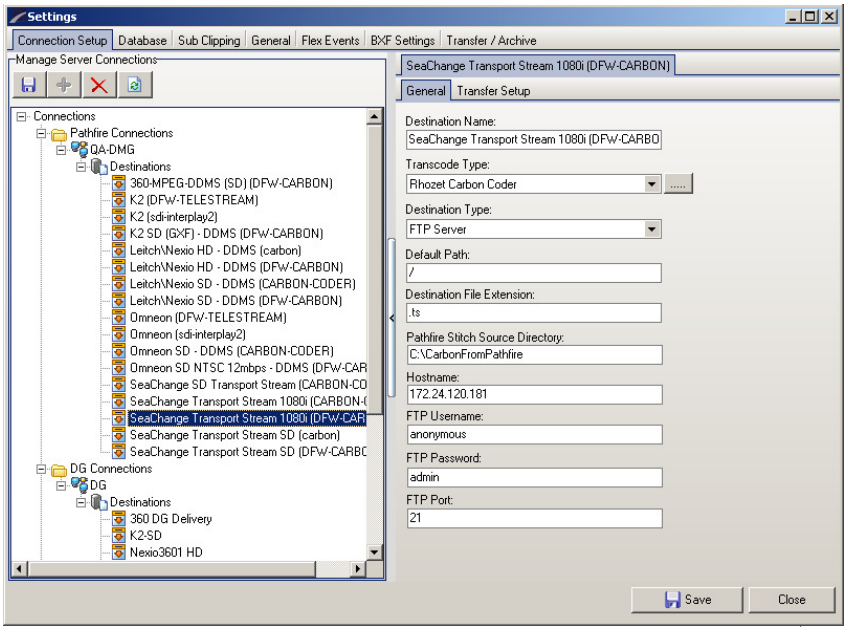
File extension has to be .mpg

Default path is blank



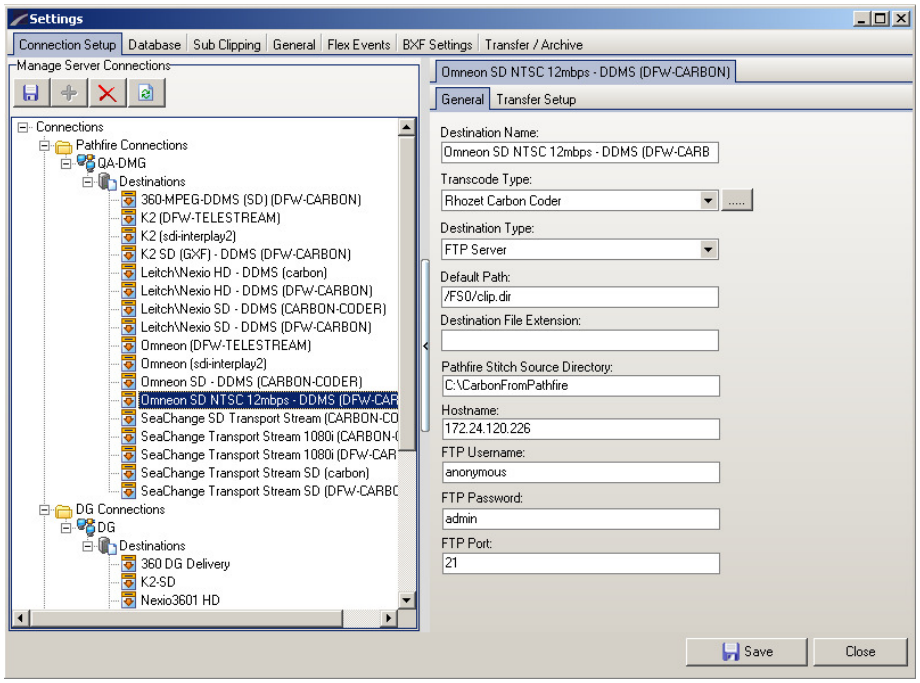
SeaChange Media Client

File extension is .ts (used by Media Monitor to create .vix file on the SeaChange)



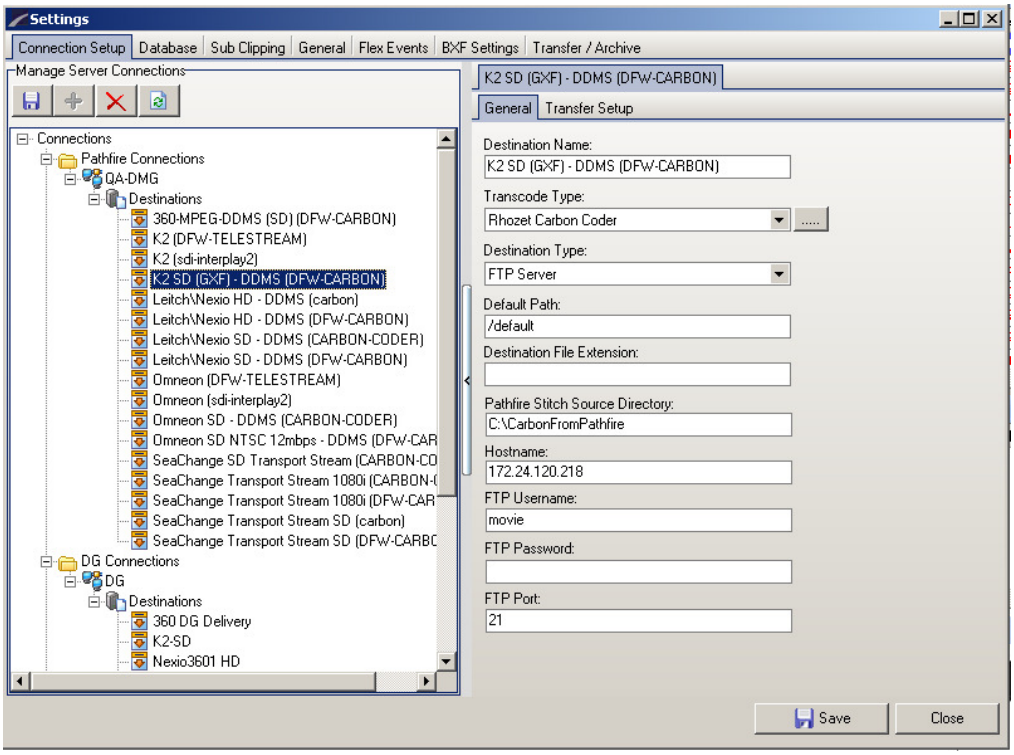
Omneon

The path is case sensitive and uses forward (/) slash



K2 (Grass Valley)

The default path is /default – default is directory on the K2 server. If the station uses different directory, update the path to the correct directory



Nexio

Note the FTP port – it uses 2098