



# Setting Up IIS with WebDAV for Acrobat 5.0 Online Comments



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# Setting Up IIS with WebDAV for Acrobat 5.0 Online Comments

This document is a guide for setting up IIS for use with Acrobat Online Comments.

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## Introduction

This guide provides instructions for how to

- Install and work with Microsoft IIS.
- Create a WebDAV directory in IIS.
- Configure Acrobat 5.0 to work with the WebDAV protocol.

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## Audience

This document is intended for technical users who are responsible for configuring the environment for an Acrobat-based review and markup solution.

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## Installing Internet Information Services

These instructions require the following system components:

- Windows 2000.
- IIS 5.0.
- Internet Explorer 5.0 or later.

### Locating and installing IIS 5.0

1. Select **Start > Setting > Control Panel > Add/Remove Programs**.
2. Select **Add/Remove Windows Components**.
3. Locate the Internet Information Services (IIS) entry in the dialog box. If it is already checked, IIS 5.0 is already installed. Otherwise, check it, and click **Next**. You might be prompted to insert your Windows 2000 installation disk into your CD-ROM drive.
4. Click the **Details** button. Make sure all components are checked. Then click **OK**.

5. Once installed, the Web Services under IIS will be started and also automatically restarted whenever your system is rebooted.

When you install IIS, system files are copied to the `\WINNT\system32\inetsrv` directory. You shouldn't have to modify anything in this directory. Instead, you will find directories and files for your web site in the `\inetpub` folder, which is created at the root of your hard drive. This is where your WebDAV accessible folder will eventually be created.

### The Microsoft Management Console (MMC)

Installed with IIS is the Microsoft Management Console (MMC) which allows you to control the web services running on your system. The IIS 5.0 MMC snap-in is located in the `\WINNT\system32\inetsrv` directory in a file called `iis.msc`. If already installed, you can access it by right-clicking on the **My Computer** icon on the desktop, selecting **Manage**, and expanding the tree-view list for **Services and Applications** and finally **Internet Information Services**.

Another way to access the snap-in is to select **Control Panel > Administrative Tools**, followed by **Internet Services Manager**. This will launch the IIS snap-in for MMC.

If the snap-in is not installed:

1. From the **Start** menu, select **Run...**, type "MMC" and click **OK**.
2. Select the **Console** menu in MMC and choose **Open**.
3. Navigate to the file `iis.msc` and click **Open**. This will open the IIS snap-in inside of MMC.

Having opened the IIS snap-in within MMC, you can perform all your web management tasks from this window. You will use the Default Web Site node most frequently.

### Testing your Web Server

IIS will take the name of the computer you are using as its URL. You can also use <http://127.0.0.1/> or <http://localhost/>.

1. Open your browser and enter the URL  
`http://server_name/localstart.asp`.

**NOTE:** To find `server_name` for your computer, select **My Computer > Properties > Network Identification** and use the "Full computer name."

2. If you see the "Welcome to Windows 2000 Internet Services" page, your web server is working correctly.

If you get an error message or page, check the following:

1. Make sure web services are switched on. Go to the MMC for IIS, click on the + of the root node to show **Default Web Site**, right-click and select **Start**.
2. Make sure Internet Options are set to **Never dial a connection**.

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## Using WebDAV for Online Comments

Using the WebDAV protocol, Acrobat 5.0 can open and save FDF files containing online comments on a server as if the comments were from a local directory.

### Setting up a WebDAV folder in IIS

1. Create a new folder on your computer - "WebDAV" is good for identification purposes. The recommended location is inside your `C:\inetpub` folder.  
**NOTE:** This folder can be located anywhere except inside your `\inetpub\wwwroot\` folder, because its default DACLs (Discretionary Access Control Lists) are different from those on other directories. See the online IIS documentation at <http://localhost/iishelp> for more information.
2. In the IIS snap-in for MMC (see "The Microsoft Management Console (MMC)" on page 4), create a virtual directory: right-click on the Default Web Site and select **New > Virtual Directory**.
3. Type "WebDAV" as the alias for the virtual directory, and then link it to the physical directory you created in Step 1.
4. Make sure Directory Browsing is selected, and grant Read, Write, Script and Browsing access. The folder can now be accessed via the WebDAV protocol.
5. Once your WebDAV directory is setup, users with the correct permissions can read and write to this directory.

To enable anonymous user access to the directory, select the **Directory Security Tab** in the properties dialog for the directory. Next, click the **Edit** button in the **Anonymous Access and Authentication Controls** box, and then in the **Authentication Methods** dialog enable the "Anonymous access" setting for the directory.

Another more restrictive approach to user access would be to authenticate specific users by creating valid Windows user accounts and then configure the Windows File System (NTFS) directory and file permissions for those accounts. Moreover, since support for WebDAV is integrated with Windows 2000 and IIS 5.0, it requires understanding aspects of the Windows operating systems in addition to IIS. For further information on the security options available and IIS, please see the online help at <http://localhost/iishelp>.

6. Test your new WebDAV folder (`http://server_name/WebDAV/`) by opening the URL in IE from the **File > Open...** command and selecting **Open as Web Folder**.
7. You should be able to view, move and copy files in and out of the browser window as if it were in Windows Explorer.

**IMPORTANT:** *When you create a WebDAV accessible folder there are important security issues you need to consider. Here we've simply setup a WebDAV folder, without regard for the security of the Web site. However, for a production Web site you should make sure your implementation meets the security standards established by your organization.*

### Configuring and using Adobe Acrobat 5.0 with WebDAV

1. In Acrobat 5.0, select **Edit > Preferences > General...** and select **Online Comments** in the Preferences dialog box.
2. For the server type choose WebDAV. Enter the WebDAV URL in the Server Settings text box i.e. `http://server_name/WebDAV/`. (Don't forget the final slash!) Click **OK**.
3. Open a PDF file inside your browser.
4. Add an annotation, upload, download and synchronize to ensure Online Comments are working.