

# Windows Not Enough Space Free / Cannot Delete, Rename, or Save Files Bug

## Introduction

With the 1.7 series clients of OpenAFS for Windows, OpenAFS is implemented as a native file system.

The Windows "Explorer" file management GUI has a bug resulting in an out of space error when copying or moving files into AFS. You may also not be able to delete files or move or rename files (these options will be missing from the menus in File Explorer). With CNF managed Windows computers, this will affect folders in the **X:** drive.

**The best workaround** is to map a Windows drive letter to the folder in which you are working.

## Technical Details

The bug is that the Shell queries the root directory of the UNC Path or Drive Letter for free space instead of the path in which the Paste is being performed.

## WorkArounds:

### Recommended

Map a drive letter to the folder in which you are working (Windows 10 instructions).

1. Click the **yellow Folder icon** in your Task Bar to start **File Explorer**.
2. In the left pane, find and click **This PC**
3. Select the **Computer** tab from the top of the window.
4. Click **Map network drive**
5. In the **Map network drive** wizard
  - a. Choose a **Drive letter** - the drive letter chosen does not matter
  - b. For the Folder, type in the full path of the folder in which you need to work, separating each folder name with a backslash, and starting the whole path with **\\afs\cnf.cornell.edu**
    - i. For example, if you would like to map the folder at **shares - public**
    - ii. Start with: **\\afs\cnf.cornell.edu**
    - iii. and then separate each folder name with a backslash: \ followed by **shares** followed by \ followed by **public** for a grand total of:
    - iv. **\\afs\cnf.cornell.edu\shares\public**
  - c. If you work in this folder a lot, leave checked **Reconnect at sign-in** . Otherwise, uncheck this box.
  - d. Click **Finish**

### #1

Select another folder in a different AFS "volume" and then return to the original intended target folder and try the Paste again. While there is no indication in the GUI of whether or not a particular folder is a different volume...

- "home" is its own volume
- "home\users" is its own volume
- "home\staff" is its own volume
- "shares" is its own volume
- each folder directly under "shares" is its own volume
- each user and staff home folder is its own volume

### #2

The bug is usually triggered by attempting to Paste using Ctrl-V. Instead try performing the Paste using the Context (right click) Menu.

### #3

Unmap and remap the **X:** drive (Windows 7 instructions).

1. From the Start menu, choose "Computer"
2. Right click on the **X:** drive and choose **Disconnect**
3. Click **Map network drive** from the top of the window
4. In the **Map Network Drive** wizard..
  - a. Set the **Drive** to **X:**
  - b. Set the **Folder** to: **\\afs\cnf.cornell.edu**
  - c. Check the box labeled **Reconnect at logon**
  - d. Click **Finish**
5. Browse to the folder in which you are pasting files and paste in the files either by dragging them in or using the Context (right click) menu as detailed in WorkAround #2 above.