

Setting up EPR Data Transfers

updated: 22 Aug 2015 (cgf,lzhu)

castor.chem.wisc.edu is a new server that will replace all apollo.chem.wisc.edu functionality as the primary server providing access to data from the Chemistry NMR Facility. This connection can be made by hardwire connection to the Chemistry building network, or via ChemVPN or WiscVPN

I. ChemVPN and WiscVPN:

The implementation of castor follows secure protocols: to connect to castor, your computer must be on the Chemistry network (on a wire; wireless is not sufficient), or running ChemVPN. WiscVPN will also work (e.g., for campus users). Non-UW researchers must connect via ChemVPN. Use of ChemVPN or WiscVPN are highly recommended on a routine basis as they will protect you in open networking environments — e.g., browsing at a coffee shop or doing work via a hotel network — by encrypting all your network traffic.

To install ChemVPN, do the following:

- a) Go to <https://dept-ra-cssc.vpn.wisc.edu> using your web browser (IE is recommended).
- b) Choose Chemistry from the Group drop-down menu.
- c) Log in with your CHEMISTRY credentials.

Depending on your OS and browser (we have had trouble with Chrome; switch to IE for the installation), you'll either automatically connect to the VPN or be prompted to install the VPN software. After the first connection, use the AnyConnect tool  for reconnections.

Instructions for WiscVPN are located [here](https://www.doit.wisc.edu/network/vpn/): <https://www.doit.wisc.edu/network/vpn/>

If you are not on the Chemistry network or using ChemVPN or WiscVPN, castor will not allow a connection.

Recent interactions with WebDev suggests the simplest and most reliable method for accessing castor is via sftp; see Section III below.

II. WebDev network drive mapping:

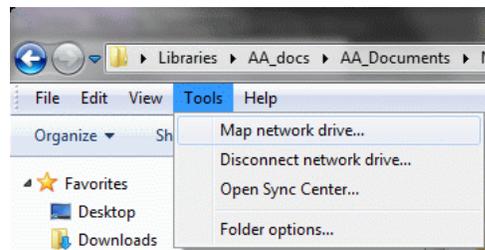
A. Mac OSX:

1. use the **Finder** → **Go** → **Connect to Server**
2. EPR data:
 - i) enter: **https://castor.chem.wisc.edu/~username** (do not use **smb:**)
e.g., the user cgfry would enter **https://castor.chem.wisc.edu/~cgfry**
Note that the **https** and **tilde ~** must be entered.

- ii) use your Chemistry ID *username* and *password* to connect
Your EPR file will be at */home/username/public_html/xepFiles/*

B. Windows 7 (Win 8 is very similar):

1. open **Windows Explorer** and click on Computer
2. **Tools** → **Map Network Drive**



3. EPR data:

- i) enter: **https://castor.chem.wisc.edu/~username**
e.g., the user cgfry would enter **https://castor.chem.wisc.edu/~cgfry**
Note that the **https** and **tilde ~** must be entered.

- ii) check: **Connect using different credentials**

- iii) use your Chemistry ID *username* and *password* to connect
Your EPR file will be at */home/username/public_html/xepFiles/*

4. WebDev can be slow in connecting 1st time. Wait ~30s until the green progress indicator is > ½ way across the path bar before proceeding.

C. WinXP: is not longer supported

III. sFTP:

sFTP is a great alternative to WebDev connections. You will have to download the data to your computer to process it, but this a good habit to have regardless of connection type.

Castor can be accessed using secure- (password encrypted) FTP, sFTP. Non-encrypted (simple) FTP implemented in programs such as FireFTP is not allowed. FileZilla, WinSCP and SecureFX are good sFTP programs.