

Instructions for Logging On and Using the interRAI Data Server

The requirements for using the SAS server are that your computer must have an Internet connection, Windows (with 'Remote Desktop Connection' installed, or the equivalent on a Mac – see end of document for Mac-specific instructions), and a UW Nexus account.

VPN Client:

Installation of the Cisco AnyConnect client is only necessary if you are connecting to the data server from off campus. Follow the steps at: <https://uwaterloo.ca/information-systems-technology/services/virtual-private-network-vpn/about-virtual-private-network-vpn#using-the-vpn> or look at the file called 'Connecting to the Campus VPN' from AHS Computing for more detailed instructions on installation.

Once installed, it should list 'cn-vpn.uwaterloo.ca' as the default connection. Press connect, then use your Nexus ID and password to log in. Once you are connected, you can proceed with logging on to interrai-data.

Remote Desktop Connection will not work until the VPN is connected – Please make sure this step is completed first!

Logging On to interrai-data (Windows):

1. Go to the Start menu and select 'Remote Desktop Connection' ('Programs', 'Accessories' or just search for it).
2. A window will appear and prompt you for a computer address. In the textbox type 'interrai-data.uwaterloo.ca'. Then click connect.
3. A new window will appear and prompt you for your Nexus user name and password. The 'log on to:' needs to have 'Nexus' selected (or enter 'nexus\your nexus ID' as the User name).
4. An error message may appear: 'The identity of the remote computer cannot be verified...'. select 'Don't ask me again', and then click 'Yes'.
5. A blank black screen will appear with a 'windows tile' button at the bottom left of the screen. Click on it, then 'SAS', and select 'SAS 9.4 (English)'.

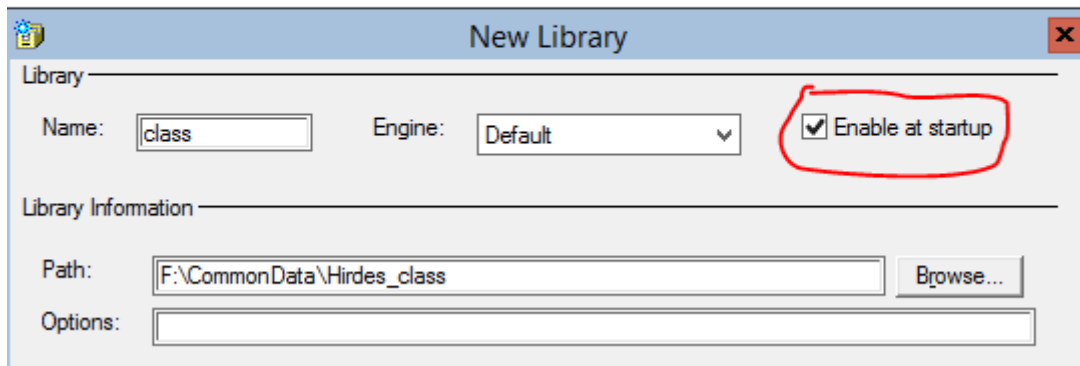
You will notice that at the top of the screen, there is a toolbar labelled 'interrai-data.uwaterloo.ca' which has options to minimize and maximize this window. This will allow you to toggle back and forth between your own computer's windows, and the interrai-data computer window.

Logging out

When you are finished your session, save your work and close SAS. Then click on the windows tile and click on the grey 'person' icon, and then select 'Sign out'.

Accessing the Data:

Use libname statements or the new library wizard (tools\new library) to establish data libraries for datasets you have permission to access. Browse to Common Data to find the folder that contains the datasets you need. Your library name must be 8 characters maximum. Be sure to check the 'enable at startup' box so that your library will appear each time you start SAS.



You can now write and run code on these datasets in the editor window and see the results in the output window. You will not be able to write new datafiles to the permanent libraries; any created datafiles required during processing should be written in the 'work' directory and will be automatically erased when you quit SAS.

A sample SAS program for help in getting started exists in 'commonoutput\code_exchange\sample_code.sas'

Use the ods commands as shown in the sample code file to create output that is viewable in Microsoft Word. Save the files as instructed in item 3 below.

Restrictions:

1. Nothing is allowed to cross from your computer to the SAS server, or from the SAS server to your computer. This means you cannot copy and paste anything (including output and code) from the SAS server to your computer. This feature is to ensure that data is not copied and placed on the user's computer (privacy and confidentiality issues).
2. If you need to obtain your output files or code files, you can save them in the 'Common Output' (a folder will be created for you within your supervisor's group folder) and email Jonathan Chen (x2chen@uwaterloo.ca) or Micaela Jantzi (mcjantzi@uwaterloo.ca). They are the only ones who have the ability to pull files from the SAS server off on to their own computer, normally during work time (8:30 – 4:30 EST Monday-Friday). One

of them will find your files, check to make sure that it is not anything that can't be sent to you (ie. raw data), and email the files to you.

3. If you have written code outside of the server environment and wish to use it on the SAS server without re-typing it, you can e-mail it to Micaela or Jonathan who will place it in the common output folder where you will be able to retrieve it and then save it to your 'My Documents' area.

Special logon information for MAC users:

Use Remote Desktop Connection for MAC – search for 'Windows Remote Desktop' in the app store.

1. Create new Remote Desktop Connection
2. Enter the information as shown in the screenshot below
– but use **interrai-data.uwaterloo.ca**

The screenshot shows a window titled "Edit Remote Desktops - Interrai Data" with three tabs: "General", "Session", and "Redirection". The "General" tab is selected. The configuration details are as follows:

- Connection name:** Interrai Data
- PC name:** interraidata.uwaterloo.ca
- Gateway:** No gateway configured
- Credentials:**
 - User name:** nexus\userid
 - Password:** (masked with dots)
- Resolution:** Native
- Colors:** True Color (24 bit)
- Full screen mode:** OS X native
 - ☒ Start session in full screen
 - ☐ Scale content
 - ☒ Use all monitors

3. Close the window, then select the connection and press start
4. There will be a warning message, accept it and allow it to connect