



SARA- CTIO @ Cerro Tololo

CONNECTION

INSTRUCTIONS



Telescope
Operations
Group



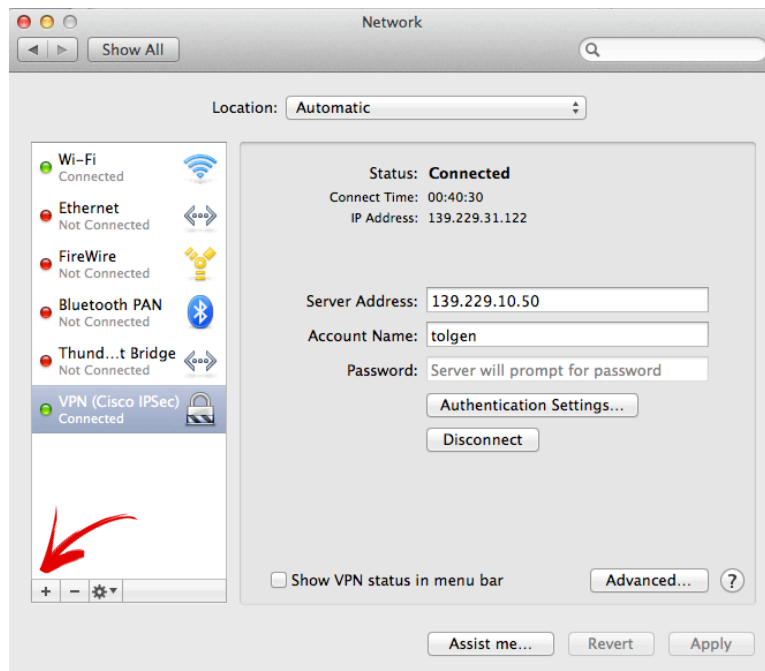
02-2018

Here you will find only the instruction to make the connections needed to carry out your observations with the CTIO telescope @ cerro Tololo. Read the user's manual to learn how to manage the telescope and the camera

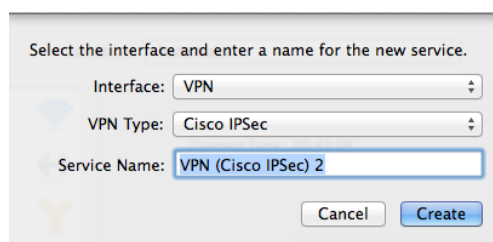
For Mac Users

First, you need to make a **VPN connection**, before to connect to each of the computers. Fortunately, you don't need special software to do this, just follow these instructions:

1. Open your "system preferences", and choose "Network", you will see this window:



2. Click on "+" (bottom, left of the window) to create a new connection. Make sure that the "VPN Type" is "Cisco IPSec", in "Service Name" give your favorite name to this connection.



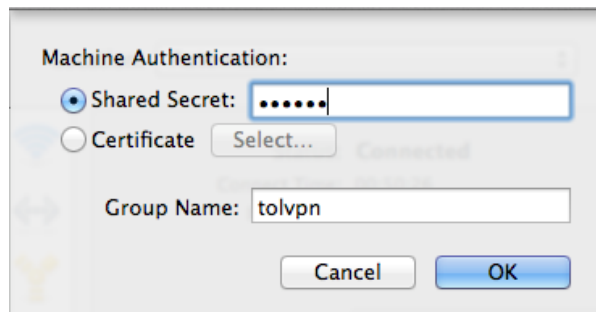
3. Introduce the following data:
Server Address: 139.229.10.50
Account Name: tolgen

Password: t01gEn_ (yes, it's a zero and one)

4. Click on "Authentication settings" button, and introduce this data:

Group Name: tolvpn

Shared secret: z0nkeR (again, it's a zero)



It is done, just click on "Connect" button, and new window will bug you asking this (Account name: tolgem, Password: t01gEn_)



With the VPN connection working, then you can connect to the computers. To do so, we recommend **real VNC** (download the viewer from [here](#)).

There are **THREE computers** to connect to: the Telescope computer, the Camera computer & the Observatory computer. All these computers run under Windows.

The username & password is the same for all connections:

User: SARA
Password: Kpn0CTI00rm

The port assignments for RealVNC is:

Computer	IP address	Port number
TELESCOPE	139.229.14.229	6229
OBSERVATORY	139.229.14.230	6230
CAMERA	139.229.14.231	6231

Note that you cannot use the default port assignment of 4899, you must use the port addresses

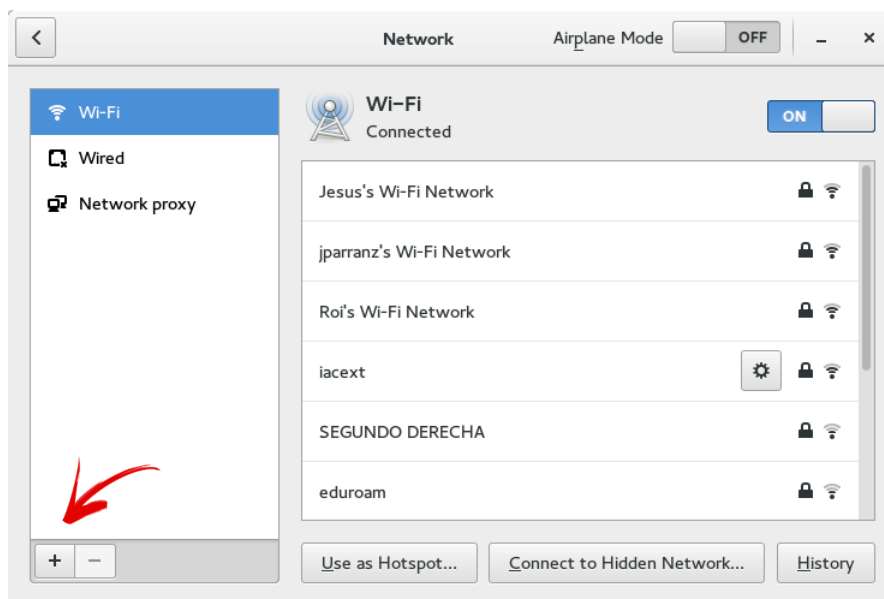
shown above.

For Linux Users

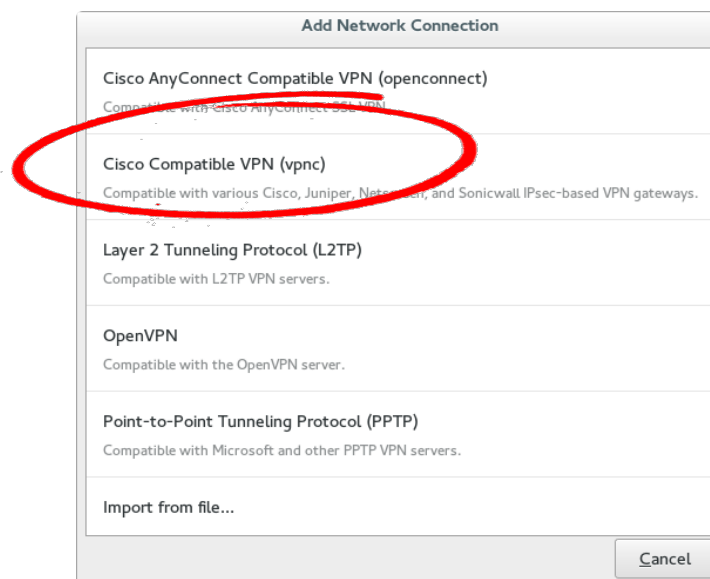
First, you need to make a **VPN connection**, before to connect to each of the computers. Fortunately, you don't need special software to do this, just follow these instructions:

NOTE that this is for FEDORA Linux, although for UBUNTU is even more simple.

1. Go to your System→Settings→Network, and you will see this:



2. Click on “+” (bottom, left of the window) to create a new connection. A new window will appear and you have to choose the “Cisco Compatible VPN (vpnc)” option.



3. Another window will appear and you have to introduce the following data in the right fields as illustrated in the screen capture picture:

Name: up to you

Gateway: 139.229.10.50

User name: tolgen

User password (select Saved): t01gEn_

Group name: tolvpn

Group password (select saved): z0nkeR

VPN CTIO VPN

Details
Identity
IPv4
IPv6
Reset

Name: VPN CTIO

Firewall Zone: Default

Make available to other users

General

Gateway: 139.229.10.50

User name: tolgen

User password: [] Saved

Group name: tolvpn

Group password: [] Saved

Show passwords

Use hybrid authentication

CA File: (None)

Advanced...

Cancel Apply

4. Apply & Switch on...That's all.

With the VPN connection working, then you can connect to the computers. To do so, we recommend **real VNC** (download the viewer from [here](#)).

There are **THREE computers** to connect to: the Telescope computer, the Camera computer & the Observatory computer. All these computers run under Windows.

The username & password is the same for all connections:

User: SARA

Password: Kpn0CTI00rm

The port assignments for RealVNC is:

Computer	IP address	Port number
TELESCOPE	139.229.14.229	6229
OBSERVATORY	139.229.14.230	6230
CAMERA	139.229.14.231	6231

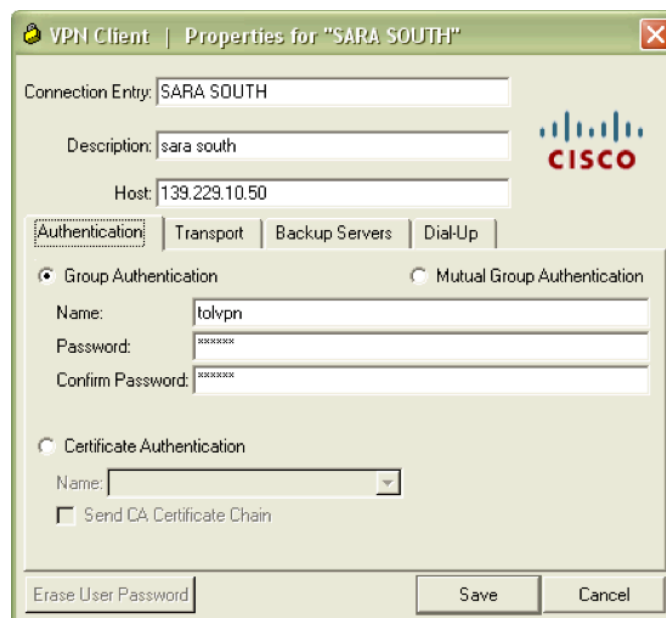
Note that you cannot use the default port assignment of 4899, you must use the port addresses shown above.

For Windows Users

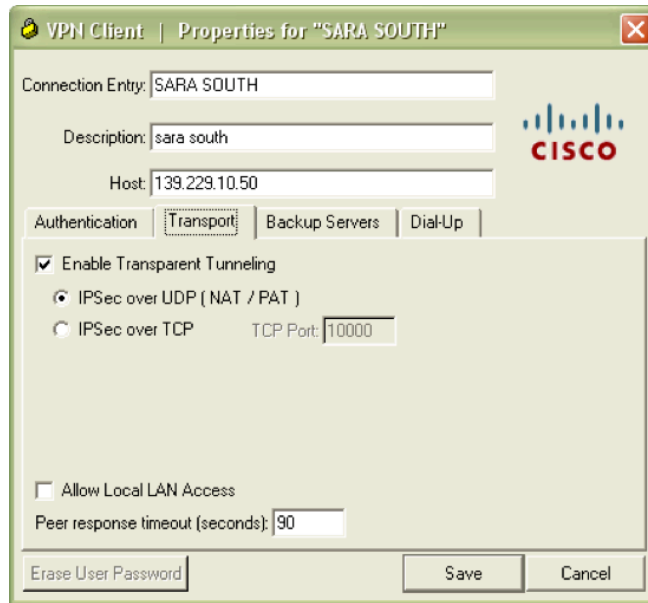
First, you need to make a **VPN connection**, before to connect to each of the computers. Unfortunately, you need a specific software to do this, just follow these instructions:

You can skip these steps if you will observe from the IAC control room

1. Download and install vpnclient-win-msi-5.0.00.0340-k9-bundle.exe
2. Run the software and introduce this data, under the “Authentification” tag:
Host: 139.229.10.50
Name: tolvpn
Password: z0nkeR (yes, it’s a zero)



3. Make sure that “IPSec over UDP” is activated, under the “Transport” tag.



4. Save the data, and make the connection. Then a new window will bug you asking username (tolgen) & password (t01gEn_)



If you are using a computer of the IAC control room, just call VPN Client, and make connection, only the above username & password will be required (step 4).

Now you can proceed with the connection to the computers. Our recommendation is to use **Remote Admin** (download the viewer from [here](#)). This software is already installed in any computer of the IAC control room.

There are **THREE computers** to connect to: the Telescope computer, the Camera computer & the Observatory computer. All these computers run under Windows.

The username & password is the same for all connections:

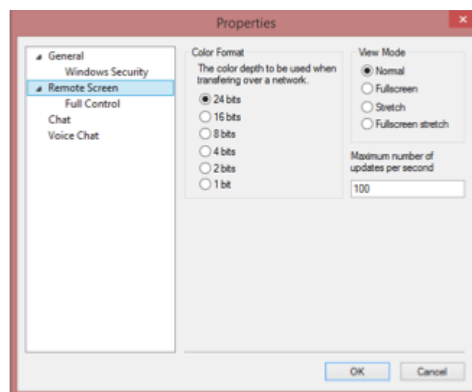
User: SARA
Password: Kpn0CTI00rm

The port assignments for Radmin is:

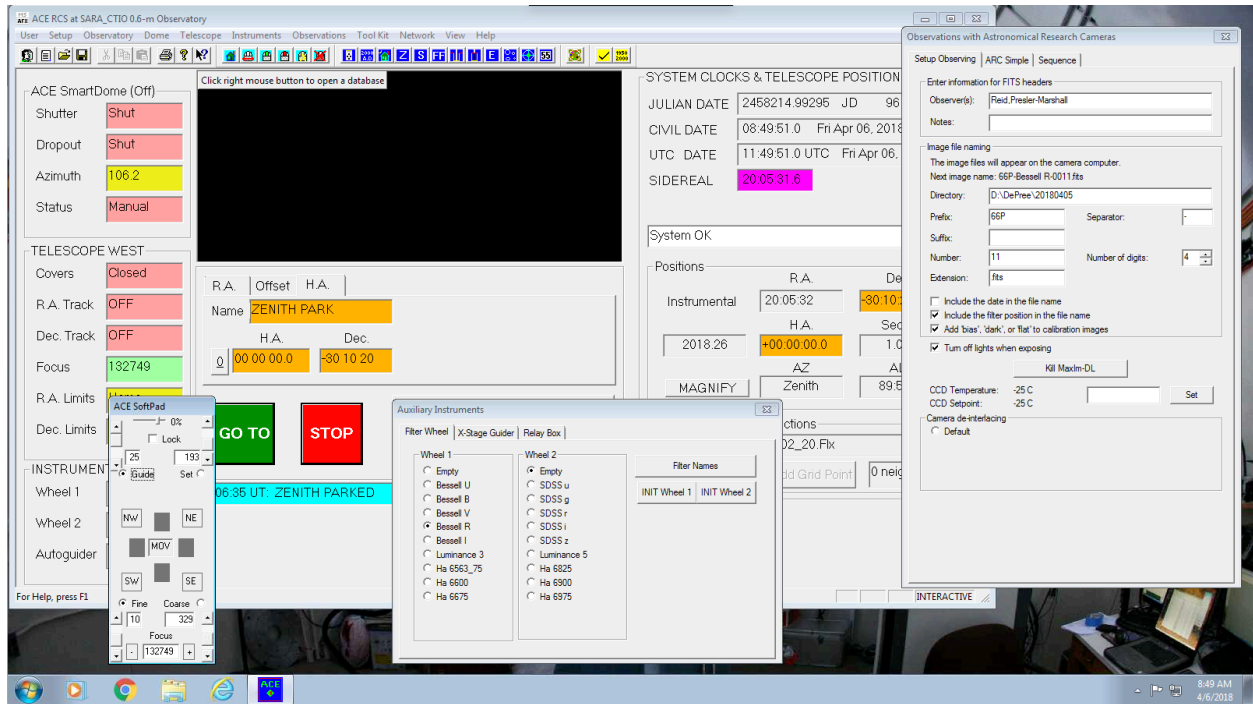
Computer	IP address	Port number
TELESCOPE	139.229.14.229	5229
OBSERVATORY	139.229.14.230	5230
CAMERA	139.229.14.231	5231

Note that you cannot use the default port assignment of 4899, you must use the port addresses shown above.

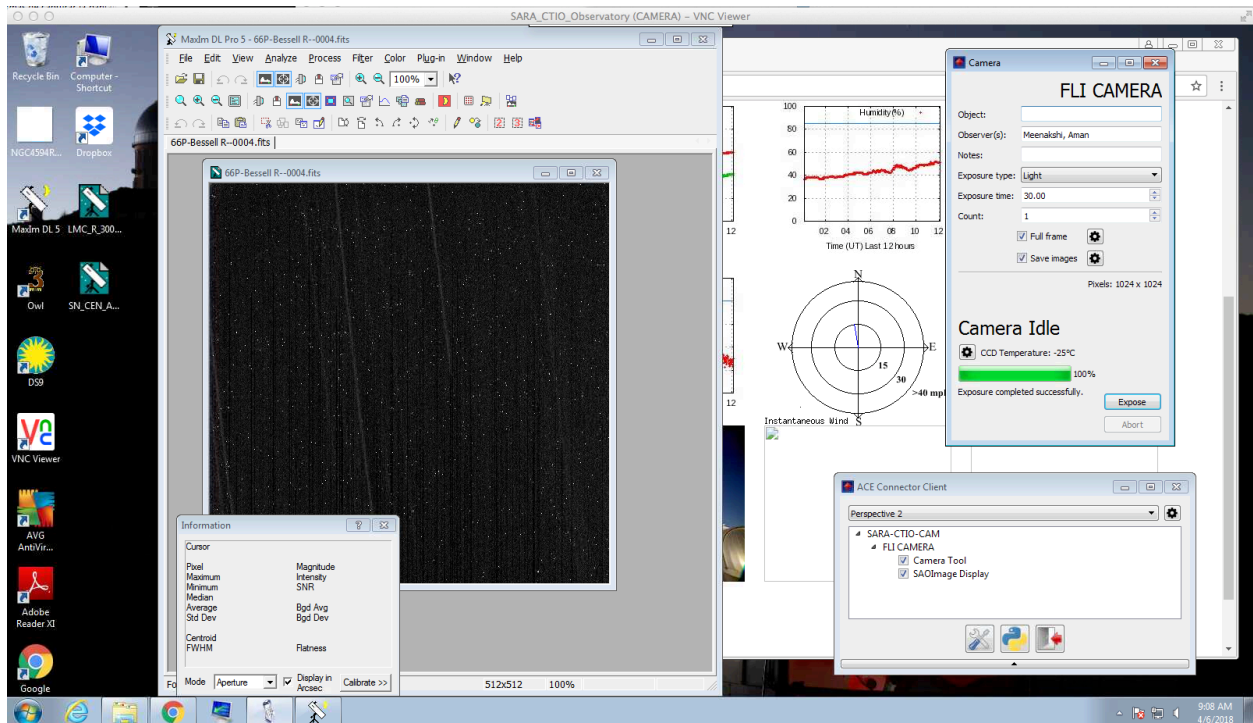
For the system to work efficiently the screen resolution of your computer must be equal or greater than the (1920 x 1080) setting of the remote computer otherwise the screen will pan and scroll all the time making the experience very slow and frustrating. To avoid this problem right mouse, click on the connection icon and select Properties from the pop-up menu. Select Fullscreen from the Video Mode. You can dramatically speed up the connection by reducing the amount of color. For normal use 16 bits is fine. It even works with 1 bit although the screen looks odd!



General view of the TELESCOPE control computer:



General view of the CAMERA computer:



General view of the windows in the OBSERVATORY computer:

