802.1x Linux Fedora 19 (32/64bit)

Linux distributions are subject to a proper functioning of the network 802.1x. For doing it on the your distribution you must have two packages installed. This packages are :

- wpa_supplicant
- dhclient

as described in the wiki page General Instructions for Linux (for expert users)

If for some reason these software are not in your distribution, you must proceed with **Installation package** section, otherwise you can go directly to the **Configuration** section.

Installation package

With a command line :

• Open a terminal console and change your current user in root user with

```
$ su -
Password:
[root@xxxxxx ~]#
```

• then lunch yum with install option specificated the package wpa_supplicant and dhclient

```
yum install wpa_supplicant dhclient
```

With a GUI :

GUI gnome can install these packages by launching the **Application Software**. Once launched in the **search** field you can enter the names of the packages you want and installed it as shown in the figures below:







Configuration

• Open your Network Settings by the Application Manager



https://wiki.unitn.it/

• Or open it in the <u>Network Icon</u> on your status bar



• In the <u>Settings</u> windows click on **Wired** voice on the left menu and then click on the **gear icon**

	Settings	×
<	Network	Airplane Mode OFF
🕈 Wi-Fi	Connected - 100 Mb/s	
Vired	IP Address 10.216.20.1	.0
Network proxy	Hardware Address 00:24:E8:D7	:13:53
	Default Route 10.216.20.1	
	DNS 192.168.20	4.3 192.168.206.180
+ -	Add Profile	
		\bigcirc

- Click the voice **Security** on the left menu in the <u>Wired</u> windows and then enable the **802.1**x **Security** switch
- Now compile the box:
 - $\circ\,$ Authentication with the Protected EAP (PEAP) value
 - $\circ\,$ Anonymouse identity leave blank value
 - $\circ\,$ CA certificate with (None) value
 - $\circ~$ PEAP version with Version 0 value
 - $\circ~$ Inner authentication with $\ensuremath{\mathsf{MSCHAPv2}}$ value
 - $\circ~$ **Username** with your **Unitn Account** with @unitn.it extension
 - $\circ~\mbox{Password}$ with your Unitn Password
- and then click on the **Apply** button

		Wired
Details Security	802.1x Security	
Identity	Authentication	Protected EAP (PEAP)
IPv4	Anonymous identity	
Reset	CA certificate	(None)
	PEAP version	Version 0 🗸
	Inner authentication	MSCHAPv2 ~
	Username	xxxxxxxxxxxx@unitn.it
	Password	•••••
		Ask for this password every time
		Show password
		Cancel Apply

Now when you restart your pc or when you re-login on your Gnome GUI, the system ask you for connect your pc on 8021.x network with your unitn credentials.

Wired 802.1X	authentication
Network name:	eml
Username:	xxxxxxxxxxx @unitn.it
Password:	•••••••
Cancel	Connect

Here you click only on the **Connect** button. That its all...Enjoy it!

