Security tips for T-KD 318 W 2 port & 4 port MTNL wireless routers

Dear Customer,

Thank you for choosing wireless router from MTNL, which provides Internet Access from your home or office forgetting the problem of cables. But please remember that before using the wireless, ensure that your wireless network is completely protected sothat no one from outside can access your router and get into Internet. This guide provides you simple steps to secure your wireless router

Securing Ways

There are 3 ways to protect your router. These are independent protection ways so that it is always better to use all three.

- I. Disabling SSID Broadcast
- II. Secured Access through data encryption
- III.Restricted Access based on MAC Address

I. Disable SSID

The SSID is a unique name to identify the ADSL Router in the wireless LAN.If SSID is enabled, then anyone will get this SSID information through passive scanning from his PC/Laptop. So please disable this SSID broadcast so that SSID can not be accessed through passive scanning. One has to manually put this SSID if he wants to access the router.

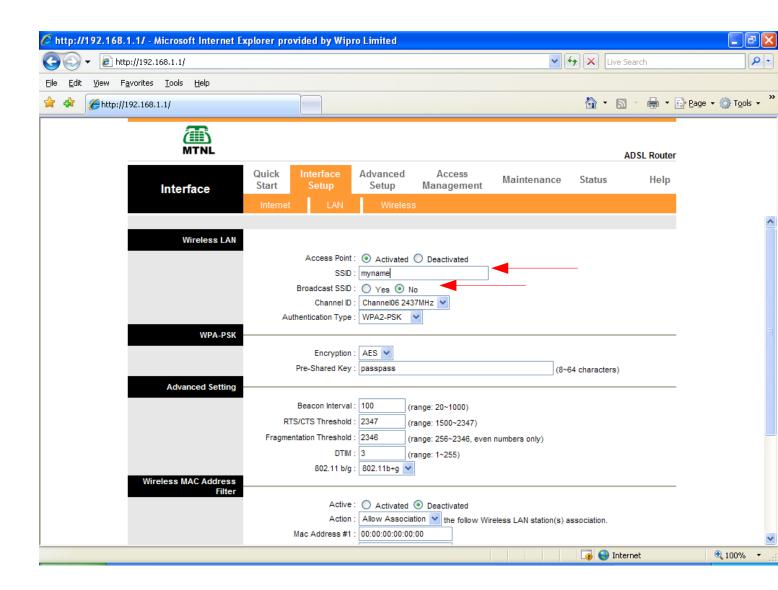
For this, Open the router homepage http://192.168.1.1

go to **Interface Setup --> Wireless**

Click Access Point 'Activated'

Put your SSID as you wish(Please put such SSID which can not be easily guessed by anyone)

Click Broadcast SSID option No



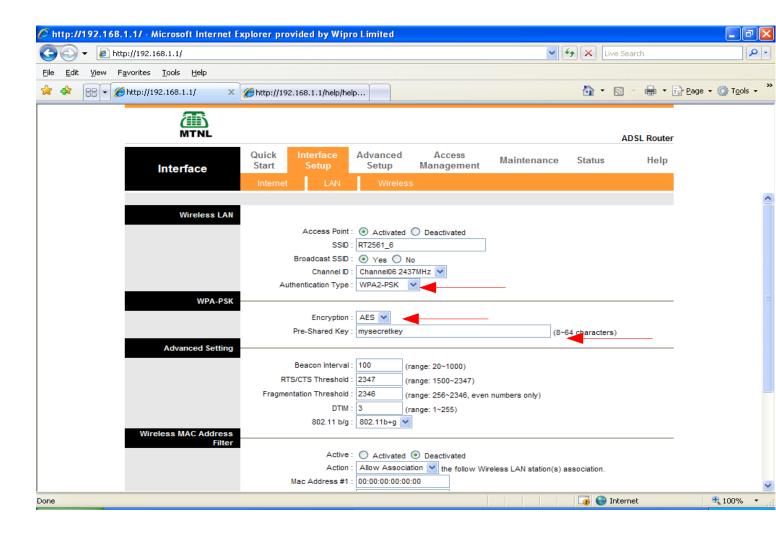
II) Secured Access through data encryption

For secure data transmission between wireless client and router, different encryption standards are available. You can select any of the encryption standards but both sides (On wireless router and Client) this encryption standard should be the same.

For eg: WEP (Wired Equivalent Privacy) encrypts data frames before transmitting over the wireless network. Select Disable to allow all wireless computers to communicate with the access points without any data encryption. Select 64-bit WEP or 128-bit WEP to use data encryption.

Key#1~Key#4 --> The WEP keys are used to encrypt data. Both the ADSL Router and the wireless clients must use the same WEP key for data transmission.If you chose 64-bit WEP, then enter any 10 hexadecimal digits ("0-9", "A-F") preceded by 0x for each key (1-4). If you chose 128-bit WEP, then enter 26 hexadecimal digits ("0-9", "AF") preceded by 0x for each key (1-4). The values must be set up exactly the same on the Access Points as they are on the wireless client stations. The same value must be assigned to Key 1 on both the access point (your ADSL Router) and the client adapters, the same value must be assigned to Key 2 on both the access point and the client stations and so on, for all four WEP keys.

If client supports, please use strong encryption standard WPA2-PSK (Authentication type) and Encryption AES as shown below



III) Restricted Access based on MAC Address

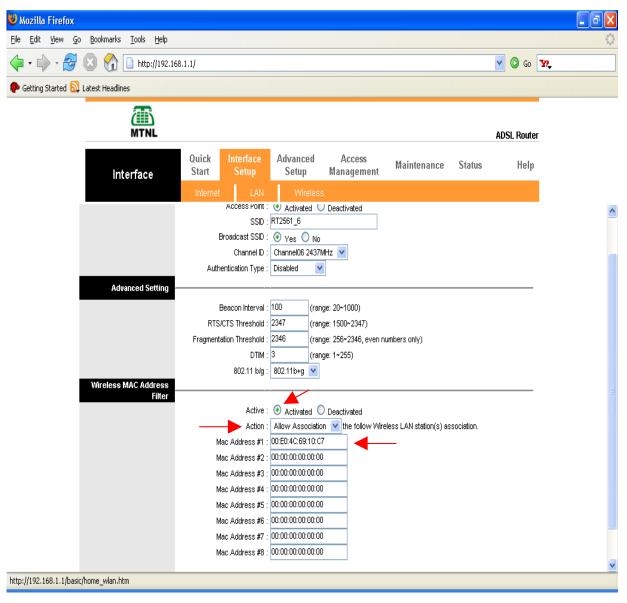
For restricting access to Wireless router (thus Internet also) can be done by putting MAC Address of NIC Cards from which access to be allowed in the wireless set up as explained below.

Open the router homepage http://192.168.1.1

go to **Interface Setup --> Wireless**

Under **Wireless MAC Addess filter** heading , select '**Active'** as **Activated**Select '**Action'** as **Allow Dissociation** and type MAC Addresses of NIC Cards from which access to be allowed.

For eg: If a PC which has an NIC card having a MAC Address 00:E0:4C:69:10:C7 has to be allowed to access the wireless router, settings should be made as shown below ..



Note: After making changes, do remember to save your configuration by clicking the save button.