

7.2 VPN router configuration (AR550s)

Update : 5.4.2010

VPN Router (CentreCOM AR550s by Allied Telesis K.K)  
Configuration Manual

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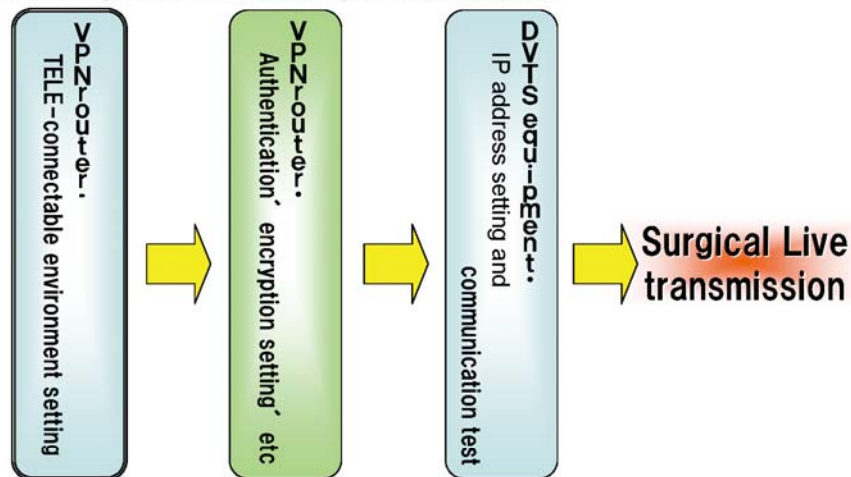
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1 Abstract

To participate in telemedicine at Kyushu University Hospital, a VPN router is needed to transmit live surgery and patient information. Detailed configuration of the VPN router registered to Prof. Okamura at Kyushu University can be done remotely. However, configuring the tele-connectable environment needs to be done in advance.

In this manual, we explain how to configure the VPN router for transmission of live surgery.

~Flow of equipment configuration for live surgical transmission~



(person in charge ) Local engineer | Network engineer | Local engineer

2 VPN router configuration

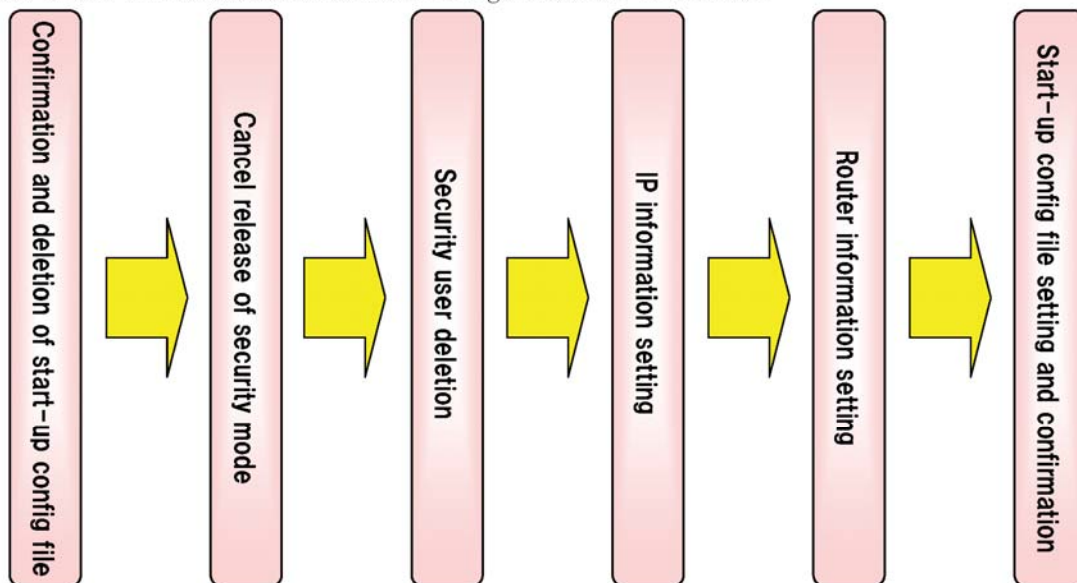
The specific VPN router described below is required in this application.

Name: Advanced VPN access router

Product name: CentreCOM AR550s or 570s (International model: AT-AR750s)※

Manufacturer: Allied Telesis K.K.

~Flow of tele-connectable environment configuration on VPN router~



## 2.1 Login and confirmation of startup config file

(Advance preparation)

Connect the console port (or LAN port) on the VPN router to the PC using a cable.

For console cable use, software setting is Hyper terminal or TeraTerm.

For LAN cable use, software setting is the command prompt ※.

※IP address of LAN interface default setting: 192.168.1.1 (DHCP in operation)

Login to the VPN router and confirm startup config file.

```

Tera Term - COM1 VT
ファイル(F) 編集(E) 設定(S) コントロール(C) ウィンドウ(W) ヘルプ(H)

fuzimotoVPN login: secoff
Password:

SecOff fuzimotoVPN> show conf

Boot configuration file: flash:vpn.cfg (exists)
Current configuration: flash:vpn.cfg

SecOff fuzimotoVPN> show fi

Filename           Device      Size      Created      Locks
-----
55275-03.rez       flash      3701184   05-Jun-2006 19:15:59  0
boot.cfg           flash       233      08-Nov-2005 05:19:27  0
config.gui         flash       475      05-Jun-2006 21:04:40  0
config.ins         flash        32      20-Jun-2006 15:32:24  0
d550sj15.rsc       flash     3443194   31-Oct-2005 09:58:13  1
d550sj18.rsc       flash     3418303   05-Jun-2006 19:16:37  0
enabled.sec        flash         8      24-Jul-2006 14:52:09  0
enc1.ukf           flash      1508     24-Jul-2006 14:40:33  0
enc2.ukf           flash      1508     24-Jul-2006 14:42:19  0
enc3.ukf           flash        70      24-Jul-2006 14:43:39  0
feature.lic        flash        78      26-Jan-2006 17:09:34  0
gui.ins            flash        64      08-Nov-2005 05:19:50  0
help.hlp           flash     107585   05-Jun-2006 19:16:29  0
longname.lfn       flash        17      20-Jun-2006 15:22:54  0
prefer.ins         flash        64      05-Jun-2006 19:17:01  0
release.lic        flash        64      05-Jun-2006 19:16:59  0
vpn.cfg            flash       4145     25-Jul-2006 07:52:10  0
-----
SecOff fuzimotoVPN>
    
```

### ① Login

Login ID: secoff

Login password: secoff

### ② Confirmation of startup config file

Input [show conf] command, and confirm startup config file.

Underlined text is the startup config file name.

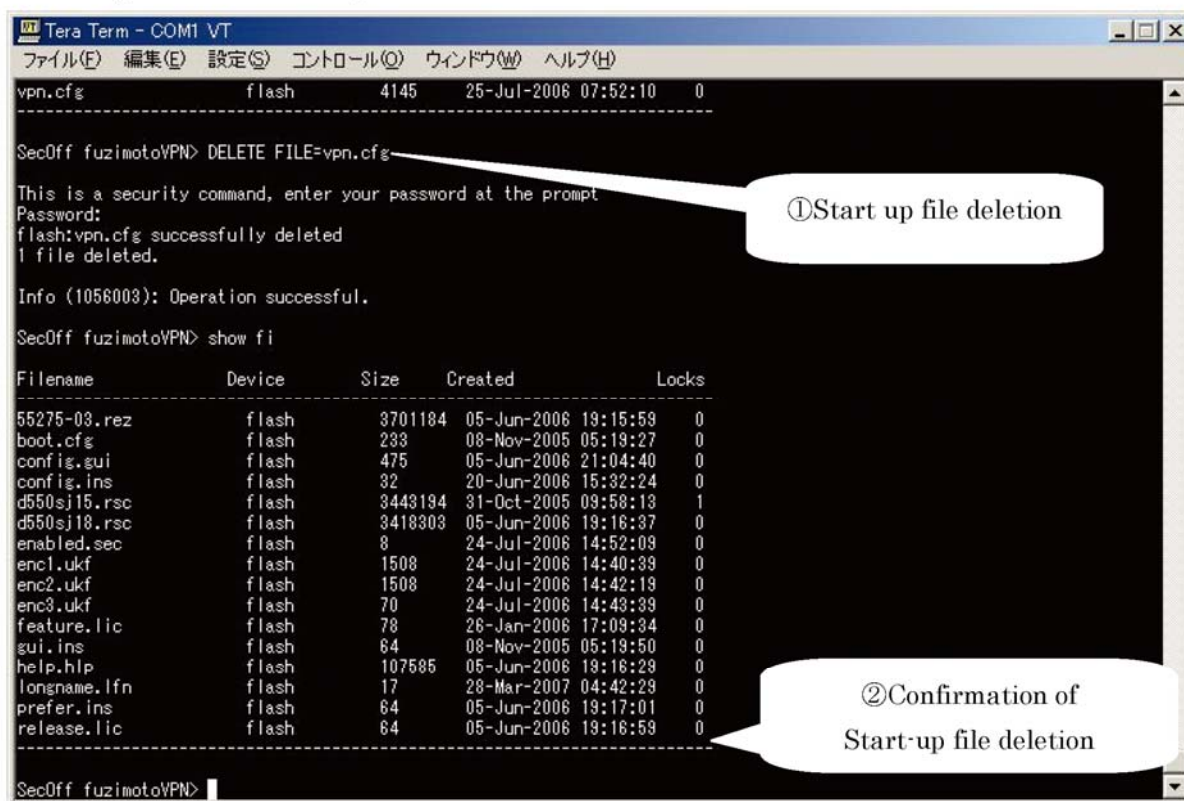
Boot configuration file: flash : startup config file.cfg

( [vpn.cfg] is the startup config file in the figure above.)

Then, confirm startup config file "vpn.cfg" via [show fi] command.

## 2.2 Startup file deletion

Deleting the current startup file is done as follows.



### ① Startup file deletion

Input [delete file="file name"] to delete the startup file.

( [vpn.cfg] is the startup config file that should be deleted in the figure above.)

### ② Confirmation of startup file deletion

Input [show fi] command, and confirm that the startup file has disappeared.

(You can confirm that the startup file has been deleted in the figure above.)

### 2.3 Disable security mode and delete security user

Disabling the security mode and deleting the security user login, returns the system to the normal mode and to the manager level login (user level).

Initial configuration of the VPN router has now been accomplished.



#### ① Disable security mode

By issuing the [disable system security\_mode] command, security mode is disabled.

This command needs to be confirmed by typing "y" in answer to the question: "Are you sure you wish to proceed? y/n".

#### ② Delete security user

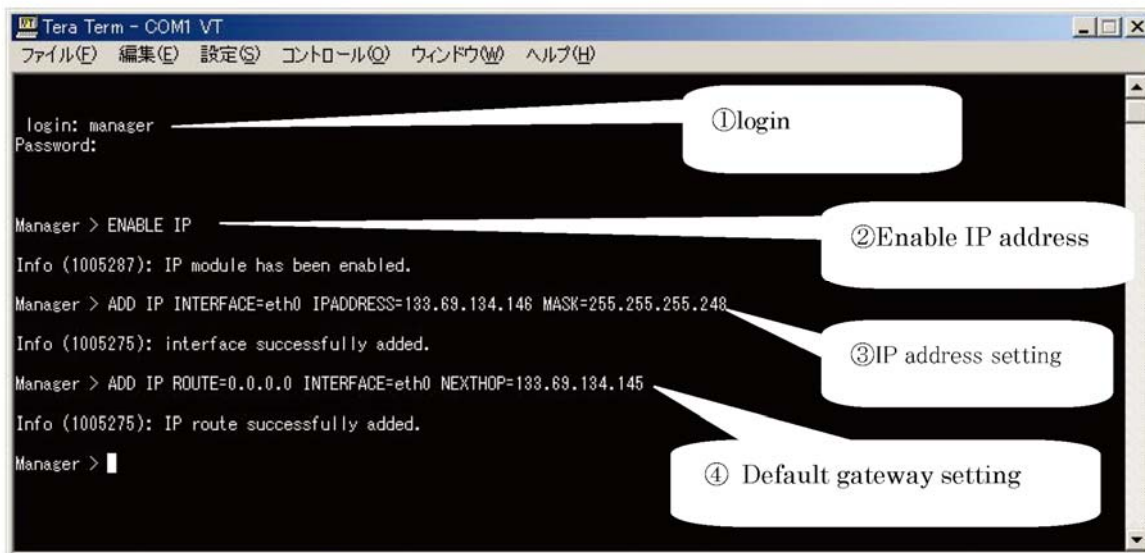
Inputting [delete user="user name"] deletes the security user.

("secoff" is the name of the user to be deleted in the figure above).

## 2.4 Setting the IP information

To set the new IP information on the VPN router, first power off the device and then turn it on again.

Login with the manager user level.



### ① Login

To login use the default ID and password, as this is the initial setting for the VPN router.

Login ID: manager

Login password: friend

### ② Enable IP address

Input the command [enable ip] to enable the IP address.

### ③ IP address setting

To set the VPN router's IP address, input the command given below.

`add ip interface="WAN interface" ipaddress="*.*.*.*" mask="*.*.*.*"`

(This sets 133.69.134.146/29 on eth0 in the figure above.)

### ④ Default gateway setting

To set the VPN router's default gateway, input the command given below.

`add ip route=0.0.0.0 interface="WAN interface" nexthop="default gateway IP"`

(This sets 133.69.134.145 on eth0 as the default gateway in the figure above.)

## 2.5 Save router config file and create startup config file settings

You save the configuration file and set up the startup config file as follows.

```

Manager > SET SYSTEM NAME=fuzimotoVPN
Info (1034003): Operation successful.
Manager fuzimotoVPN> CREATE CONFIG=config.cfg
Info (1049003): Operation successful.
Manager fuzimotoVPN> SET CONFIG=config.cfg
Info (1049003): Operation successful.
Manager fuzimotoVPN> show conf
Boot configuration file: flash:config.cfg (exists)
Current configuration: None (file not found)
Manager fuzimotoVPN> show fi
Filename      Device      Size      Created      cksum
-----
55275-03.rez  flash      3701184   05-Jun-2006 19:15:59 0
boot.cfg     flash      293       08-Nov-2005 05:19:27 0
config.cfg   flash      2825      28-Mar-2007 05:29:55 0
config.gui   flash      475       05-Jun-2006 21:04:40 0
config.ins   flash      32        28-Mar-2007 05:30:18 0
d550sj15.rsc flash      3419194   31-Oct-2005 09:58:13 1
d550sj18.rsc flash      3418303   05-Jun-2006 19:16:37 0
feature.lic  flash      78        26-Jan-2006 19:16:37 0
gui.ins      flash      64        08-Nov-2005 05:19:56 0
help.hlp     flash      107595    05-Jun-2006 19:16:29 0
longname.lfn flash      17        28-Mar-2007 04:42:29 0
prefer.ins   flash      64        05-Jun-2006 19:17:01 0
release.lic  flash      64        05-Jun-2006 19:16:59 0
Manager fuzimotoVPN>
    
```

### ① Host name setting

Input [set system name="host name"] to set the host name of the VPN router.  
(This sets "fuzimotoVPN" as the host name in the figure above.)

### ② Save router config file

Input [create config="config file name.cfg"] to save the VPN router settings, and create the config file.  
(This sets "config.cfg" as the config file in the figure above.)

### ③ Initiate config file settings

Input [set config="config file name.cfg] to assign the file to be used in resetting the router.  
(This sets "config.cfg" as the startup config file in the figure above.)

### ④ Confirmation of router settings

Confirm the correct startup config file via the [show conf] command.  
Then, confirm the saved setting file via the [show fi] command.  
After these confirmations, verify the reachability of the VPN router using ping and a telnet connection from another segment (or network) to the eth0 IP address.