

# **TCP Connection behind NAT Router**

(KX-UT670)

No. 22-015

Dec 22 , 2011

Ver.1.0

Panasonic Corporation

## Abstract about this document

This document describe about setting of TCP connection behind NAT router.

## Revision history

Date	Version	Revision	Firmware version
Dec 22, 2011	Ver. 1.0	Initial Release	All versions

# Outline

If you use phone using TCP located behind NAT router, it may required to open port of NAT router for port forwarding otherwise sometimes SIP communication cannot be established.

## NAT Router settings

Step1: NAT router settings

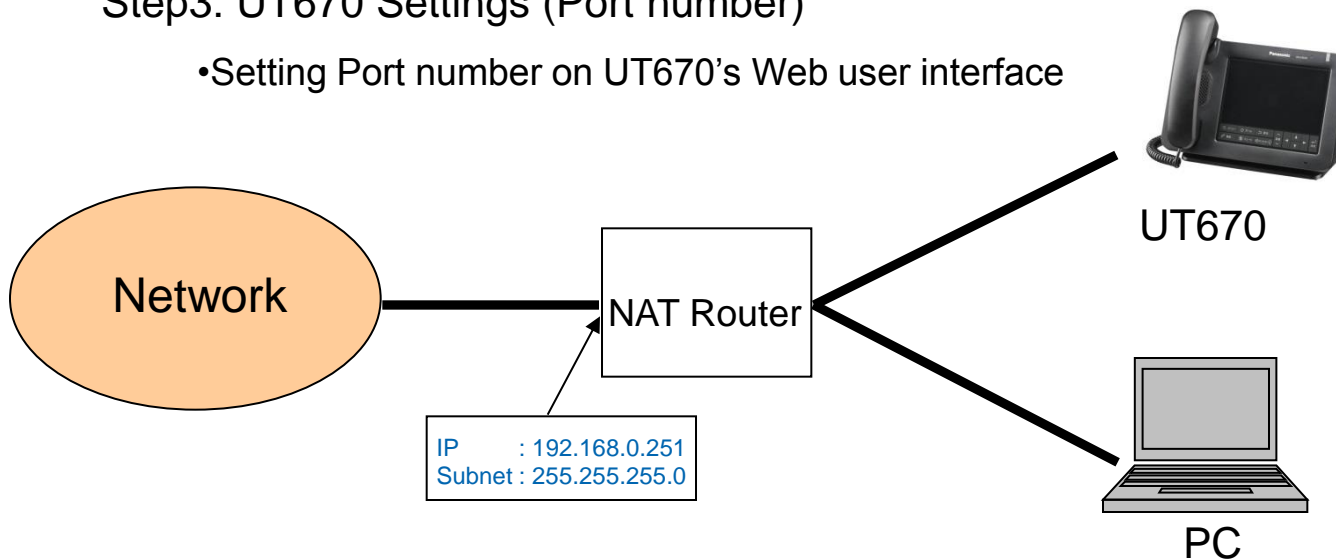
## UT670 settings

Step2: UT670 Settings (Static global IP address)

- Setting Static global address on UT670's Web user interface

Step3: UT670 Settings (Port number)

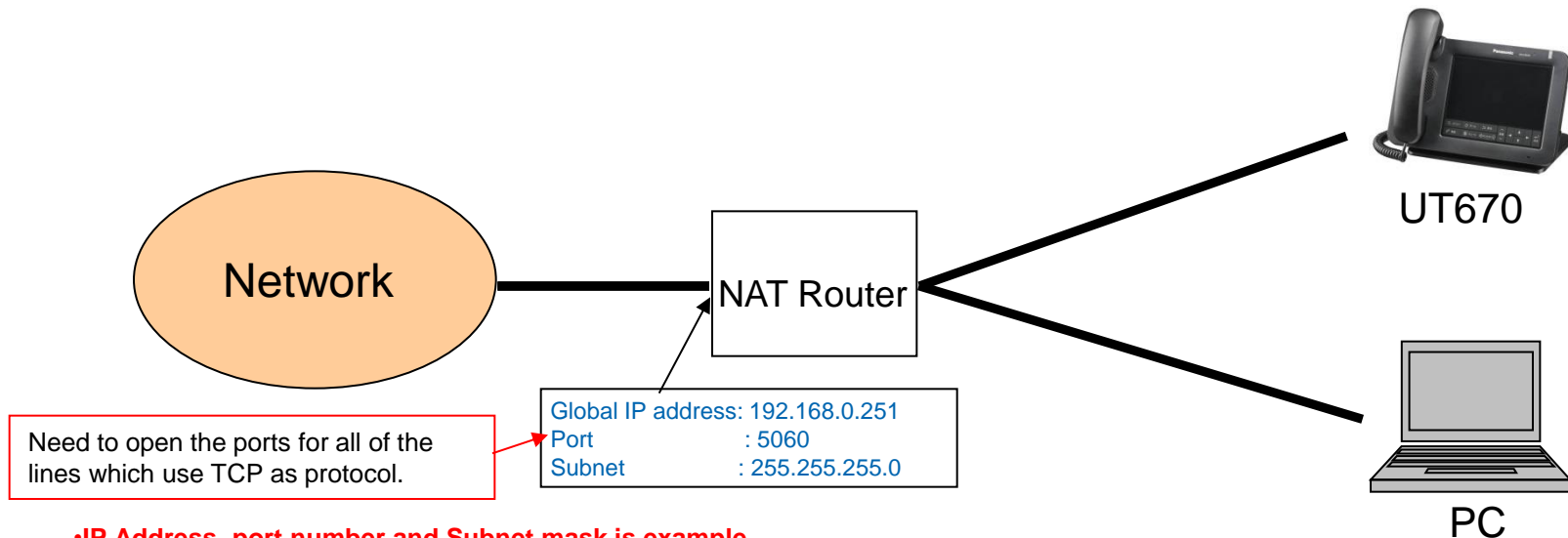
- Setting Port number on UT670's Web user interface



\* IP Address and Subnet mask is example.

# Step1 NAT Router settings

1. Activate IP Masquerade function of NAT Router
2. Check the global address of NAT Router
3. Open Port of NAT Router connected with network side



- IP Address, port number and Subnet mask is example.
- Also, please refer manual of router for how to open port of NAT router.

# Step2 UT670 settings (Setting Static global address )

Setting Static global address on UT670's Web user interface

KX-UT670NE

Status **Network** System VoIP Telephone Maintenance

Web Port Close

Network

- Basic Network Settings
- Ethernet Port Settings
- HTTP Client Settings
- Global Address Detection
- Static NAPT Settings**

### Static NAPT Settings

**Global IP Address**

Global IP Address 4. 192.168.0.251 [Null: Disable]

Even if you enter a value for this setting, if "Global Address Detection" is enabled, the detected global IP address will be used.

**Enable Global IP Address Usage per Line**

Line 1	<input checked="" type="radio"/> Yes <input type="radio"/> No
Line 2	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 3	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 4	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 5	<input type="radio"/> Yes <input checked="" type="radio"/> No
Line 6	<input type="radio"/> Yes <input checked="" type="radio"/> No

**External RTP Port**

Channel 1-25	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

[1024-49150: Even Number Only, 0: Disable]

Set a value for all fields, or set all fields to 0 (disable).

6. Save Cancel

1. Open UT670's Web user interface.
2. Login administrator account.
3. Click [Network] – [static NAPT Settings].
4. Enter "Global IP Address" checked at Step1-2.
5. Select "Yes" to "Enable Global IP Address Usage per Line", you want to use Lines as TCP connection.
6. Click [Save].

# Step3 UT670 settings (Setting Port number)

Setting Port number on UT670's Web user interface

The screenshot shows the web interface for a KX-UT670NE device. The 'VoIP' tab is selected. In the left sidebar, 'SIP Settings' is expanded, and '- Line 1' is selected. The main content area shows the 'SIP Source Port' configuration. The 'Source Port' field is set to '6060' and is highlighted with a red box and the number '3.'. At the bottom of the page, the 'Save' button is highlighted with a red box and the number '4.'. Other settings like 'SIP Authentication', 'DNS', 'Transport Protocol for SIP', 'Timer Settings', 'Quality of Service (QoS)', 'SIP extensions', 'NAT Identity', and 'Security' are also visible.

1. Click [VoIP].
2. Click [-Line \*] selected “Yes” at Step2-5.
3. Enter Port number opened at Step1-3 to “SIP Source Port”.
4. Click [Save].

THE SETTING WAS COMPLETED!

## Access the Web user interface

### 1. Confirm the IP address of KX-UT670.

1-1 : [Menu] ( Upper left of sheet key) →[Settings] → [About phone] → [Status]

1-2 : Confirm the IP address displayed on LCD.

### 2. Embedded Web.

2-1 : [Menu] ( Upper left of sheet key) →[Settings] → [Network]

→[Embedded web] →select [On]

### 3. Access the Web user interface.

3-1 : Open your Web browser.

3-2 : Enter your KX-UT670 URL to Web browser  
(<http://your KX-UT670 IP address>) .

3-3 : Enter user name (**admin**) and password (**adminpass**) and click “OK”.

3-4 : The Web user interface window is displayed.  
Configure the settings for the unit as desired.