

## 6. Using DHCP/DNS Server Function

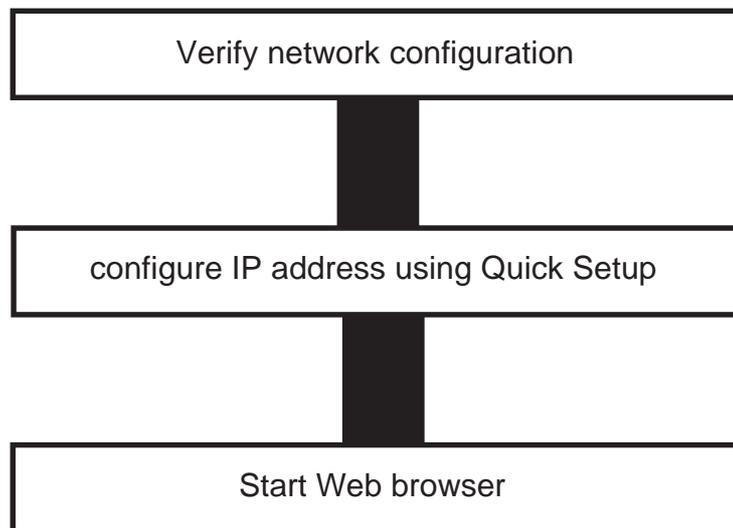
This chapter explains how to use PRICOM DHCP/DNS server function.

PRICOM can use as DHCP server and DNS server, PRICOM can easily build and manage network environment.



- Only network manager can configure the DHCP/DNS server function.
- The configuration of DHCP/DNS server function can be set up only from Web browser.

Following indicates how to use DHCP/DNS server function.



## Initial Setting

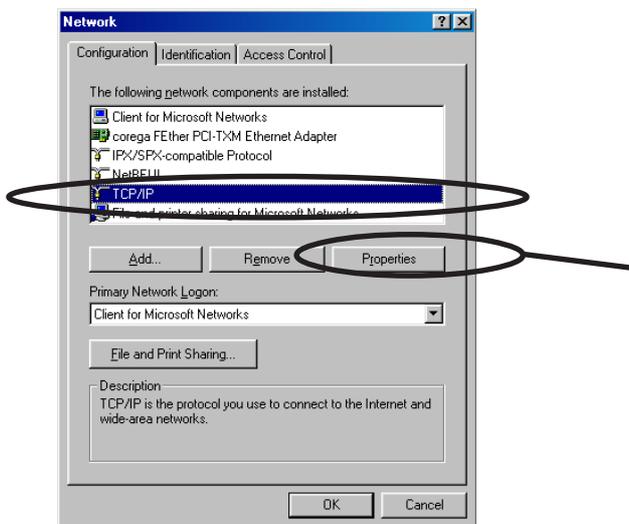
### Verify the PC Network Configuration

Make sure that **TCP/IP protocol** is added on your PC.

Windows 95/98/Me

Make sure that **TCP/IP** is added to the **Services**.

1. Click **Start**, then **Settings**, then **Control Panel**.
2. Double-click **Network**.
3. Verify that **TCP/IP** is included in **The following network components** are installed.



Click **Properties**.



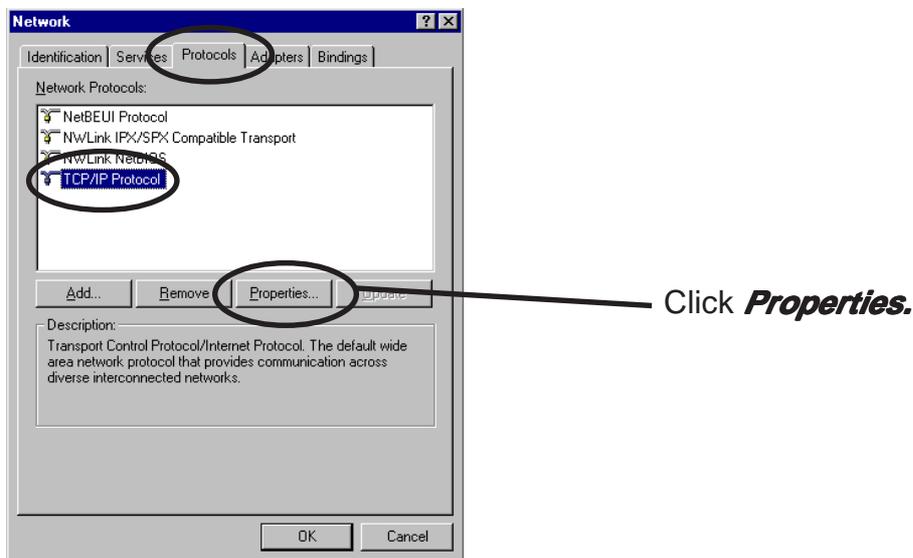
**NOTE** -If **TCP/IP** Protocol is not in **The following network components are installed**, click **Add**, then **Network component**, then **Protocols**, then **Microsoft TCP/IP** to add **TCP/IP**.

4. Verify if the configuration is proper for your environment in **IP Address**.

Windows NT 4.0

Make sure that the **TCP/IP** is added to the **Services**.

1. Click **Start**, then **Settings**, then **Control Panel**.
2. Double-click **Network**.
3. Verify that **TCP/IP Protocol** is included in **Network Protocols**.



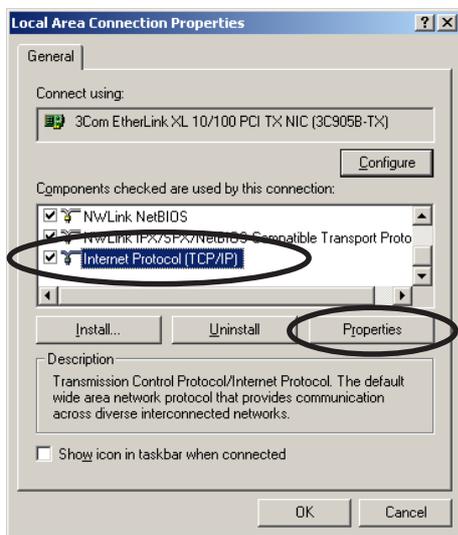
-If **TCP/IP Protocol** is not in **Network Protocols**, click **Network Components**, then **TCP/IP Protocol** to add **TCP/IP protocol**.

4. Verify if the configuration is proper for your environment in "**IP Address**".

## Windows 2000

Verify if **Internet Protocol [TCP/IP]** is added.

1. Click **Start**, then **Settings**, then **Control Panel**, then **Network and Dial-up Connections**.
2. Right-click **Local Area Connection**, then click **Properties**.
3. Verify that **Internet Protocol [TCP/IP]** is added.



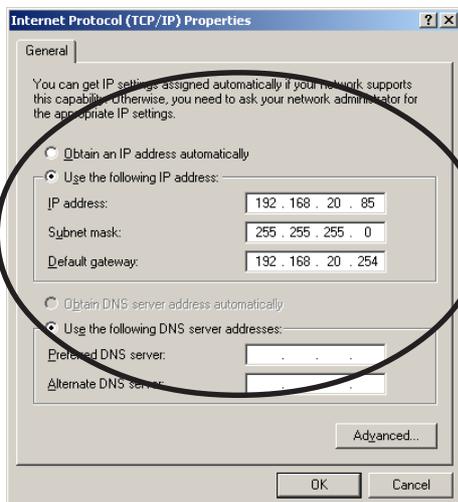
Click **Properties**.



**NOTE**

-If **Internet Protocol [TCP/IP]** is not in **Components checked are used by this connection**, click **Install**, then **Internet Protocol [TCP/IP]** to add **Internet Protocol [TCP/IP]**.

4. Verify if the configuration is proper for your environment in **General**.



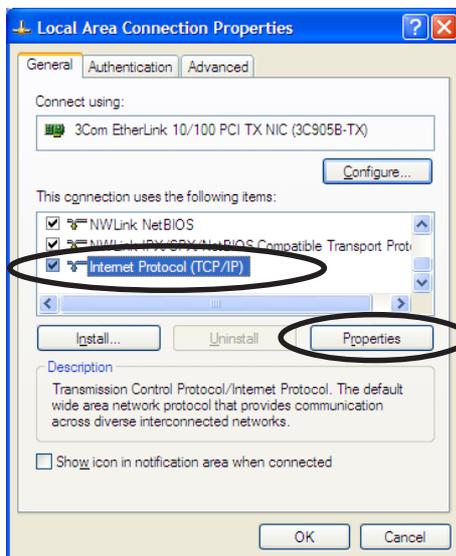
## Windows XP

Verify if Internet Protocol (TCP/IP) is added.

**1.** Click **start**, then **Control Panel**, then **Network and Internet Connections**.

**2.** Right-click **Network Connections**, then click **Properties**.

**3.** Verify that Internet Protocol (TCP/IP) is added.



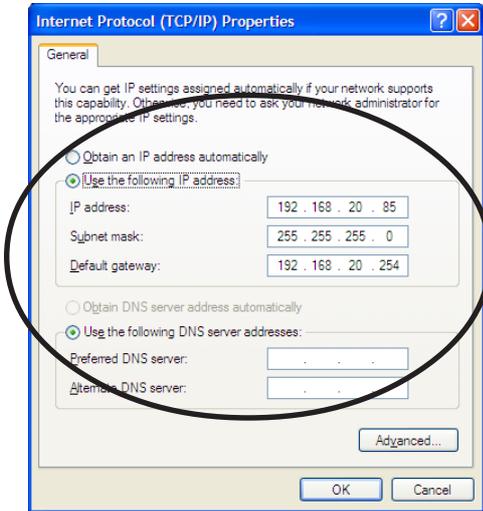
Click **Properties**.



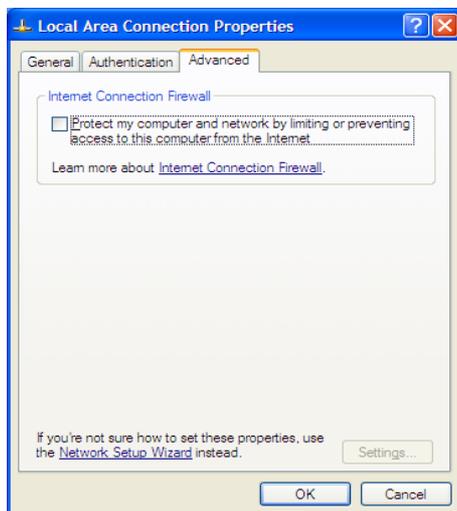
### NOTE

-If **Internet Protocol (TCP/IP)** is not in **This connection uses the following items**, click **Install**, then **Internet Protocol (TCP/IP)** to add **Internet Protocol (TCP/IP)**.

**4.** Verify if the configuration is proper for your environment in **General**.

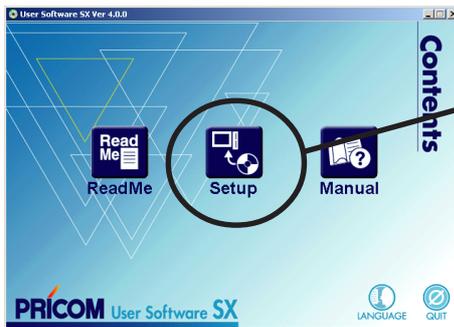


-When you use TCP/ IP protocol in Windows XP, click **Local Area Connection Properties**, then **Advanced**, then remove the check from **Protect my computer and network by limiting or preventing access to this computer from the Internet**.



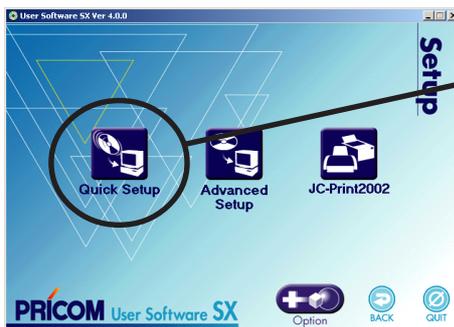
## Quick Setup

1. Insert the User Software SX in the CD-ROM drive of your Windows PC. The main menu screen will be displayed.



Click **Setup**.

2. The below screen will be displayed.



Click **Quick Setup**.

3. Quick Setup loads.



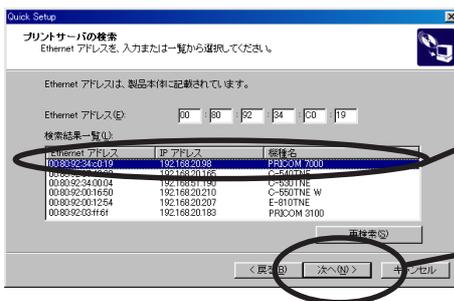
Click **Next**.

## 4. Confirm the Software License Agreement.



Read the agreement and click **Yes** if you accept it.

## 5. Select PRICOM to be configured.



Select PRICOM to be configured.

Click **Next**.

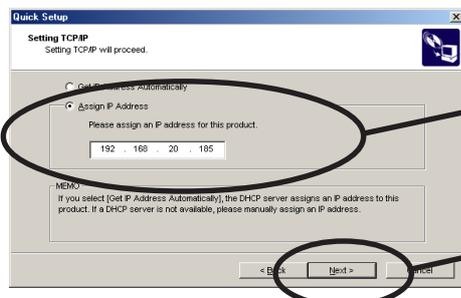


### NOTE

-If PRICOM does not appear in the list, click **Search**.  
You can search PRICOM by typing in Ethernet address directly.

## 6. Assign an IP address.

**When you have DHCP server in your environment.**



Assign an optional IP address.

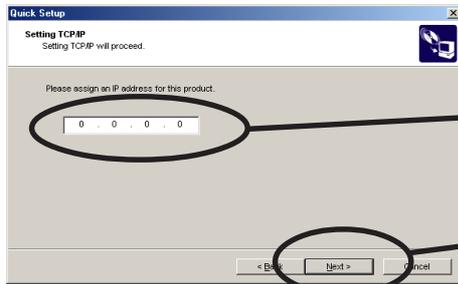
Click **Next**.



### TIP

- In case of using PRICOM as DHCP/DNS server, assign an optional IP address.

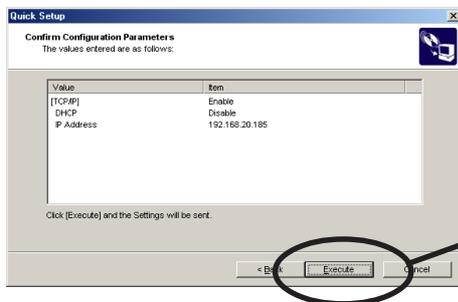
**When you do not have DHCP server in your environment.**



Assign an optional IP address.

Click **Next**.

**7.** Verify the configuration parameters.



Click **Execute**.

**8.** Setup is complete.



Click **Yes**.

Click **Finish**.

**9.** Then, please configure DHCP/DNS server function.

## Using DHCP Server Function

### Configure DHCP Server Function

Configure DHCP server function, then use PRICOM as DHCP server.



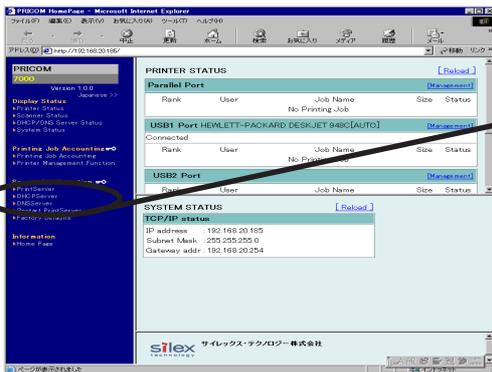
- Only network manager can configure the DHCP server function.
- The configuration of DHCP server function can be set up only from web browser.
- This DHCP server function does not correspond to the cooperation function with DNS server.
- This DHCP server function corresponds to both way to configure IP address, frre or fixed.

### 1. Display PRICOM webpage



- To display PRICOM webpage to be configured, follow one of the following steps.
  - (A) Display the webpage from AdminManager.
    - Select PRICOM to be configured from the AdminManager list, then click **Configuration**, then **Configuration via Web browser**.
  - (B) Display the webpage from Web browser.
    - Enter the IP address to assign for the PRICOM to the Web browser.
    - Example: http://192.168.20.185/

### 2. Display PRICOM webpage

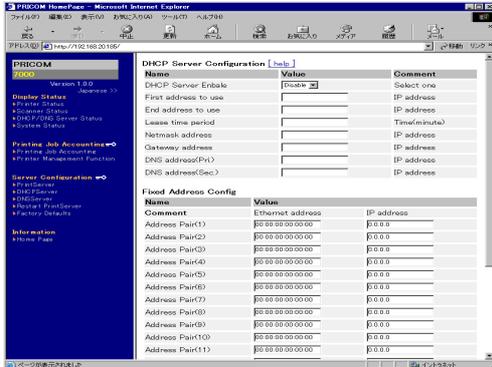


Click **DHCP server**.



- User's name and password are below.
  - User's name: root
  - Password : null (not input any words)
- \* You can change this password. When you change this password, keep in mind this password that it is the password of AdminManager and TELNET.

### 3. Input required items.



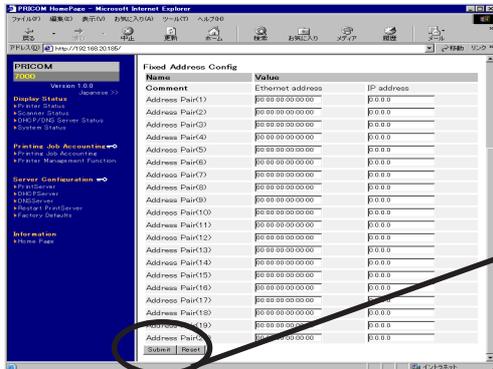
The setting items are as follows.

		Item	Explanation	Factory Default
DHCP Server		DHCP Server	Enable/Disable DHCP server function.	DISABLE
		First Address to Use	Setting the start address of the address range assigned as DHCP is set up. The address must be 4 numbers, each between 0-255 (eg. 255.255.255.0).	0.0.0.0
		End Address to Use	Setting the end address of the address range assigned as DHCP is set up. The address must be 4 numbers, each between 0-255 (eg. 255.255.255.0).	0.0.0.0
		Lease Time Period (min)	The lease time period of the address assigned as DHCP is set up.	1,440
		Subnet Mask	Setting the subnet mask address of DHCP option data. The address must be 4 numbers, each between 0-255 (eg. 255.255.255.0).	0.0.0.0
		Default Gateway	Setting the default gateway address of DHCP option data. The address must be 4 numbers, each between 0-255 (eg. 192.168.100.240).	0.0.0.0
	DNS Server	Primary Server	Setting the DNS server (primary) address of DHCP option data. The address must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
		Secondary Server	Setting the DNS server (secondary) address of DHCP option data. The address must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
<b>Fixed Address Configuration</b>				
	Address Pair (1)-(20)	Setting the address pair of Ethernet address and IP address. The Ethernet address must be 6 numbers, each between 00-FF (eg. 00:80:92:00:00:01). The IP address must be 4 number, each between 0-255 (eg. 192.168.10.100).	-	



- In case of not using fixed IP address setting, it is not necessary to input any items.
- In case of using fixed IP address setting, it can set up 20 sets of machine and IP address.

#### 4. Submit DHCP server configuration.



Click **Submit**.

#### 5. Finish configuration of DHCP server. You can use PRICOM as DHCP server.

## Using DNS Server Function

### Configure DNS Server Function

Configure DNS server function, then use PRICOM as DNS server.



**TIP**

- Only network manager can configure the DNS server function.
- The configuration of DNS server function can be set up only from web browser.
- This DNS server function does not correspond to the cooperation function with WINS server.
- In case of using this DNS server function under the environment working Windows DNS server, please set not to use WINS function at Windows DNS server.
- This DNS server function does not correspond to the DDNS function.

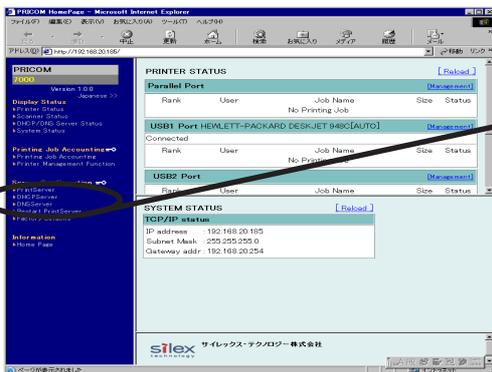
### 1. Display PRICOM webpage



**NOTE**

- To display PRICOM webpage to be configured, follow one of the following steps.
  - (A) Display the webpage from AdminManager.
    - Select PRICOM to be configured from the AdminManager list, then click **Configuration**, then **Configuration via Web browser**.
  - (B) Display the webpage from Web browser.
    - Enter the IP address to assign for the PRICOM to the Web browser.
    - Example: http://192.168.20.185/

### 2. Display PRICOM webpage



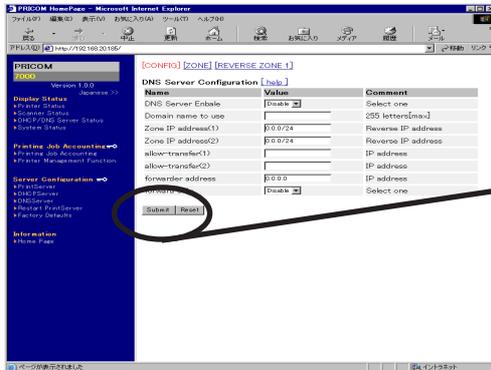
Click **DNS server**.



**NOTE**

- User's name and password are below.
  - User's name: root
  - Password : null (not input any words)
- \* You can change this password. When you change this password, keep in mind this password that it is the password of AdminManager and TELNET.

## 4. Input required items.

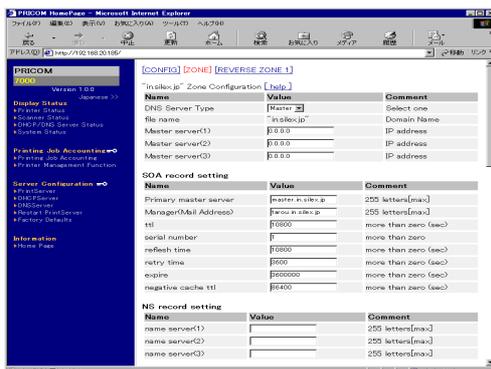


Click **submit**.

The required items are as follows.

	Item	Explanation	Factory Default
DNS Server	DNS Server	Enable/Disable DNS server function.	DISABLE
	Domain Name to Use	Setting the domain name to use. The name must be characters of domain format divided by ".".	-
	Zone IP Address (1)(2)	Setting the range of zone IP address. The range must be following style "xxx.xxx.xxx/xx".	0.0.0/24
	Allow-Transfer (1)(2)	Setting the address of name server transferring zone. The name server transferring zone can be limited by this setting. The address must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
	Forwarder Address	Setting the address of name server forwarding an unsolved inquiry. The address must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	0.0.0.0
	Forward Only	Enable/Disable forwarder only. In case of enable, when it does not receive the reply from name server, it will give the inquiry up at soon.	DISABLE

## 5. Set up the details of DNS server function.

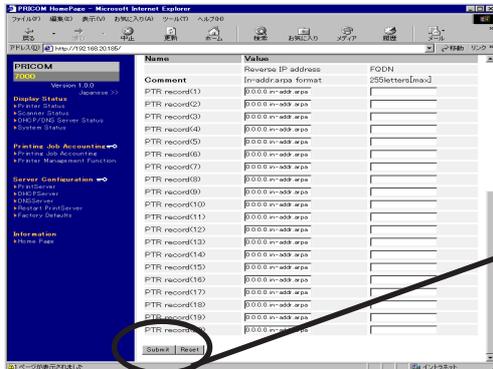


The required items are as follows.

	Item	Explanation	Factory Default	
DNS Server	Zone	DNS Server Type	Master/Slave DNS server function. master	
		File Name	Display zone file name. (cannot configure) -	
		Master Server (1)-(3)	Setting the address of master server. The address must be 4 numbers, each between 0-255 (eg. 192.168.100.10). 0.0.0.0	
		SOA Record Setting		
		Primary Master Server	Setting the name of primary server. The name must be characters of domain format divided by ".". -	
		Manager (Mail Address)	Setting the address of manager. The name must be characters of domain format divided by ".". -	
		TTL (sec)	Setting the default TTL (sec). This value means the longest time of an IP packet's existence. 10,800	
		Serial Number	Setting the serial number applied by zone data. Whenever it updates zone data, it is necessary to make it increase. 1	
		Refresh Time (min)	Setting the interval time which slave confirms whether zone data is the latest. (sec) 10,800	
		Retry Time (sec)	Setting the interval time which slave retrys access to master. (sec) 3,600	
		Expire (sec)	Setting the limit which slave repeats zone data (sec). In case of it passes the set-up time, when slave can not access to master, slave will repeat zone data. 3,600,000	
		Negative Cache TTL (sec)	Setting the negative cache TTL (sec). This value is applied to negative reply from any name server has the authority over a zone. 86,400	
		NS Record Setting		
		Name Server (1)-(3)	Setting the name of name server set up to NS record of zone data file. The characters of host name must be only alphabet (a-z), number (0-9), and hyphen (-). -	
		MX Record Setting		
		Mail Server (1)-(3)	Setting the mail server name and preference value which set up to MX record of zone data file. A priority becomes high, so that a preference value is small. The characters of host name must be only alphabet (a-z), number (0-9), and hyphen (-). -	

	Item	Explanation	Factory Default
DNS Server	Zone		
	A Record Setting		
	A Record (1)-(20)	Setting the host name and IP address which set up to A record of zone data file. The characters of host name must be only alphabet (a-z), number (0-9), and hyphen (-). The address must be 4 numbers, each between 0-255 (eg. 192.168.100.10).	-
	CNAME Record Setting		
	CNAME Record (1)-(10)	Setting the host name and alias which set up to CNAME record of zone data file. The characters of host name must be only alphabet (a-z), number (0-9), and hyphen (-).	-
	Reverse Zone		
	Primary Master Server	Setting the name of primary server. The name must be characters of domain format divided by ".".	-
	Manager (Mail Address)	Setting the address of manager. The name must be characters of domain format divided by ".".	-
	TTL (sec)	Setting the default TTL (sec). This value means the longest time of an IP packet's existence.	10,800
	Serial Number	Setting the serial number applied by zone data. Whenever it updates zone data, it is necessary to make it increase.	1
	Refresh Time (sec)	Setting the interval time which slave confirms whether zone data is the latest. (sec)	10,800
	Retry Time (sec)	Setting the interval time which slave retrys access to master. (sec)	3,600
	Expire (sec)	Setting the limit which slave repeals zone data (sec). In case of it passes the set-up time, when slave can not access to master, slave will repeal zone data.	3,600,000
	Negative Cache TTL (sec)	Setting the negative cache TTL (sec). This value is applied to negative reply from any name server has the authority over a zone.	86,400
	NS Record Setting		
	Name Server (1)-(3)	Setting the name of name server set up to NS record of zone data file. The characters of host name must be only alphabet (a-z), number (0-9), and hyphen (-).	-
	PTR Record Setting		
	PTR Record (1)-(20)	Setting the mail server name and preference value which set up to PTR record of zone data file. The characters of host name must be only alphabet (a-z), number (0-9), and hyphen (-).	-

## 6. Submit DNS server configuration.



Click **submit**.

## 7. Finish configuration of DNS server. You can use PRICOM as DNS server.