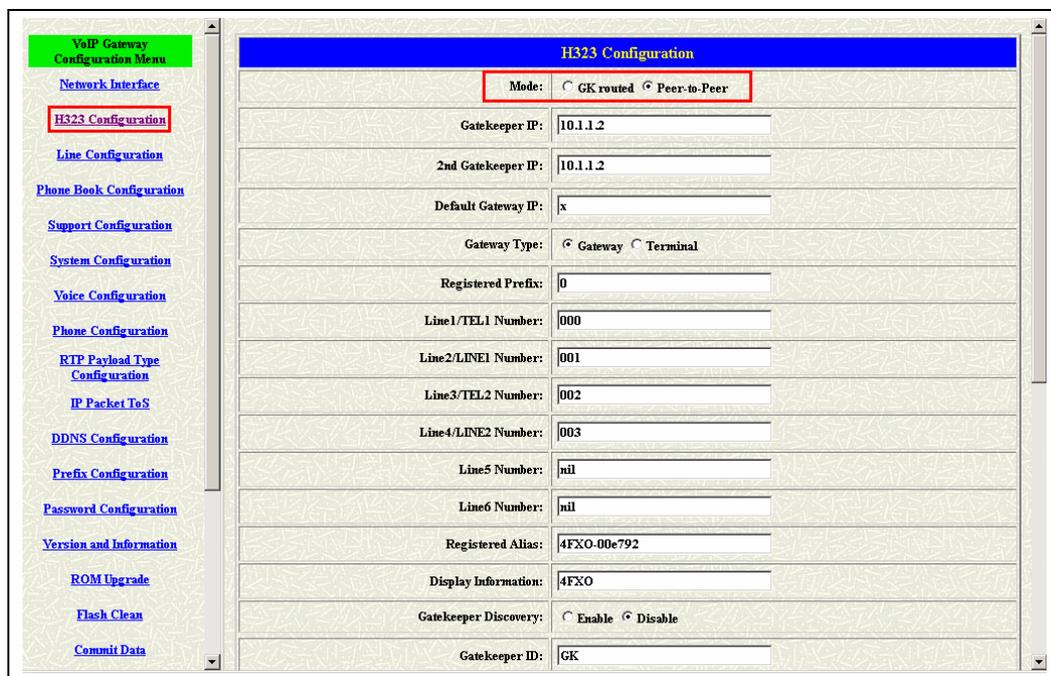


## 2.4 Making a VoIP Call

There are two modes that you could configure the gateway for making VoIP calls. One is the Peer-to-Peer mode and another is GK routed mode. The configurations and functions are different. Please make sure about the mode you want and follow up the step to configure your gateway.

### 2.4.1 Configure the gateway into the Peer-to-Peer mode

1 Enter the H323 Configuration table and change the mode to Peer-to-Peer.



The screenshot displays the 'H323 Configuration' web interface. On the left is a navigation menu with various configuration options. The main area is titled 'H323 Configuration' and contains several fields for configuration. The 'Mode' field at the top is highlighted with a red box, showing 'Peer-to-Peer' selected with a radio button. Other fields include Gatekeeper IP (10.1.1.2), 2nd Gatekeeper IP (10.1.1.2), Default Gateway IP (x), Gateway Type (Gateway selected), Registered Prefix (0), Line1/TEL1 Number (000), Line2/LINE1 Number (001), Line3/TEL2 Number (002), Line4/LINE2 Number (003), Line5 Number (nil), Line6 Number (nil), Registered Alias (4FXO-00e792), Display Information (4FXO), Gatekeeper Discovery (Disable selected), and Gatekeeper ID (GK).

H323 Configuration	
Mode:	<input type="radio"/> GK routed <input checked="" type="radio"/> Peer-to-Peer
Gatekeeper IP:	10.1.1.2
2nd Gatekeeper IP:	10.1.1.2
Default Gateway IP:	x
Gateway Type:	<input checked="" type="radio"/> Gateway <input type="radio"/> Terminal
Registered Prefix:	0
Line1/TEL1 Number:	000
Line2/LINE1 Number:	001
Line3/TEL2 Number:	002
Line4/LINE2 Number:	003
Line5 Number:	nil
Line6 Number:	nil
Registered Alias:	4FXO-00e792
Display Information:	4FXO
Gatekeeper Discovery:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Gatekeeper ID:	GK

Figure 2.11: Configure the Peer-to-Peer mode

2 Press the OK button that is on the bottom of this page to save the configuration.

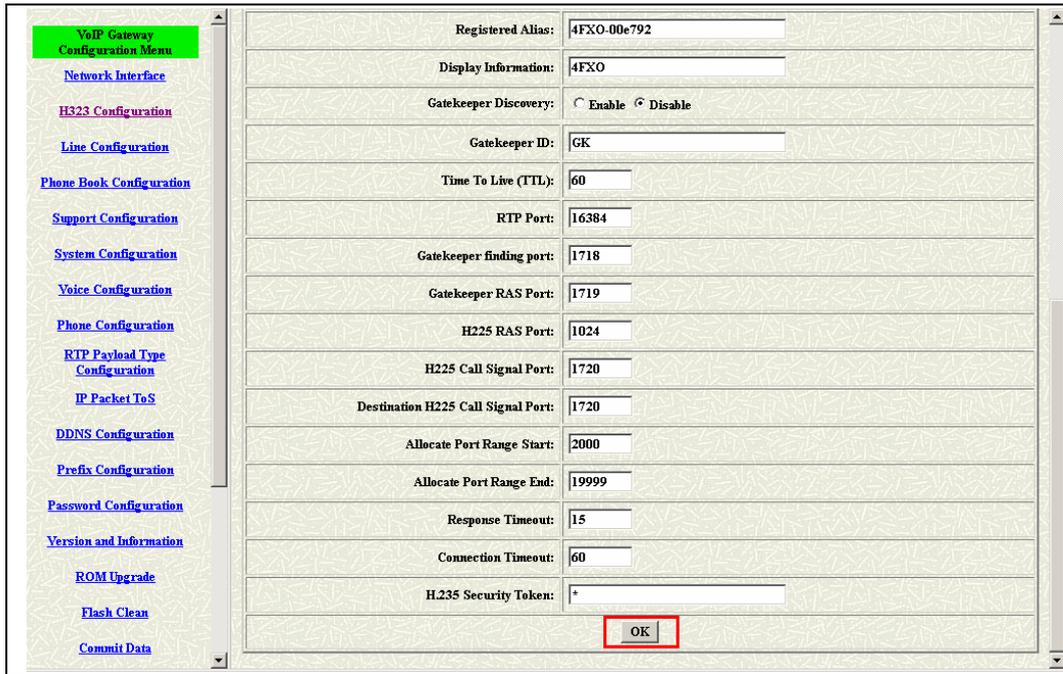


Figure 2.12: The OK button

- 3 Enter the Phone Book configuration table and configure the name, ip address and phone number of the destination.

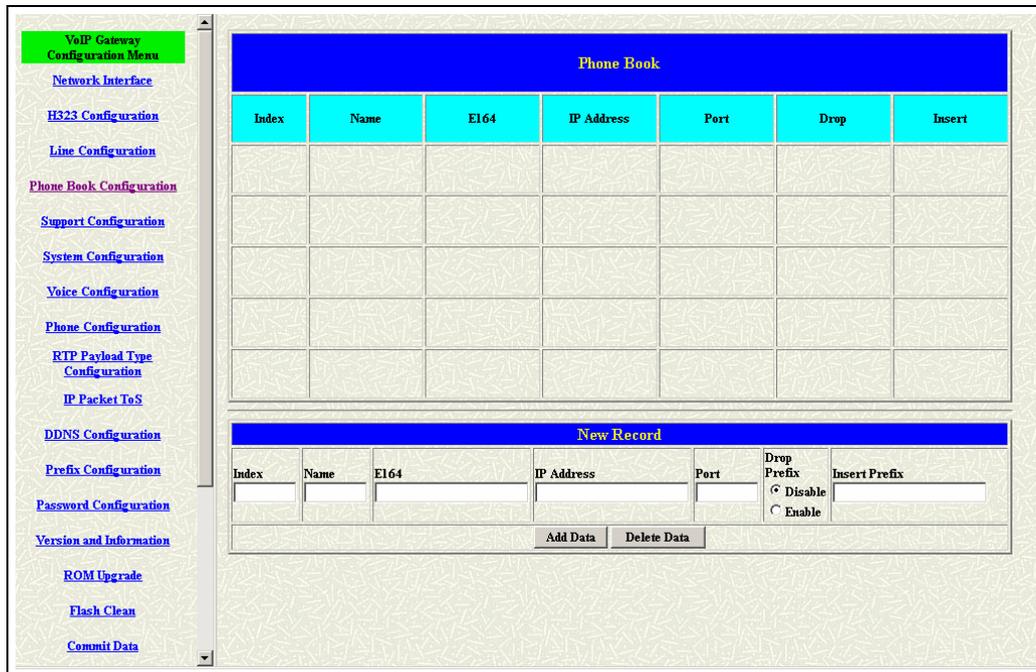


Figure 2.11: Phone Book

**【Example】**

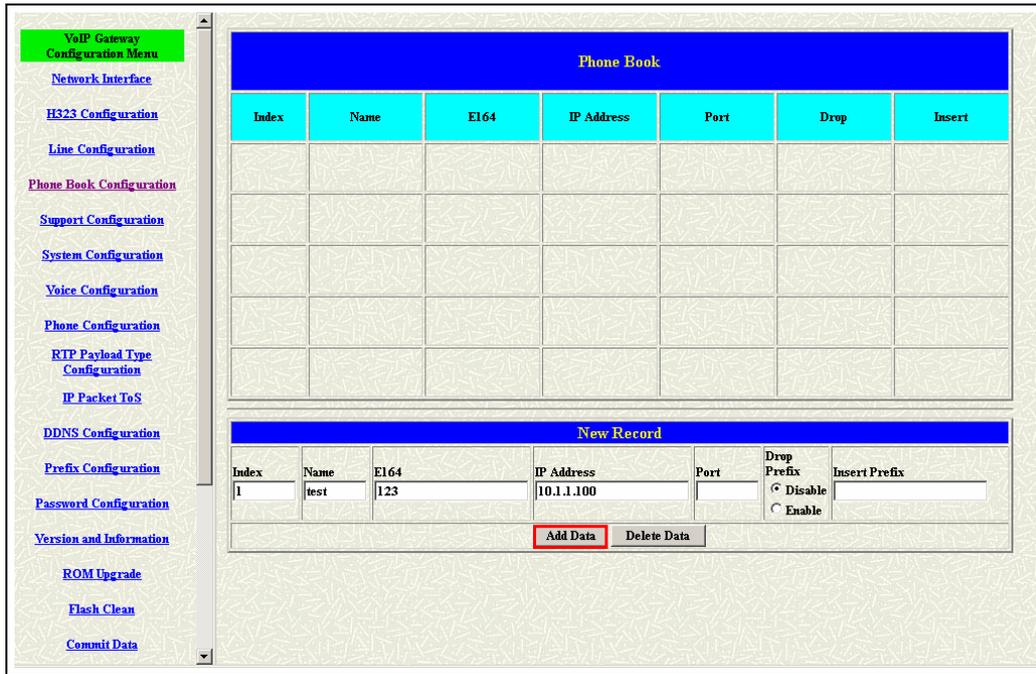


Figure 2.12: The example of Phone Book configuration

This is the first record of Phone Book. So the index is **1**

The name of the destination: **test**

The E164 number (phone number) of the destination: **123**

The ip address of the destination: **10.1.1.100**

4 Press the “Add Data” button when you finished, and the new table will display on the first index if you press the Phone Book configuration button.

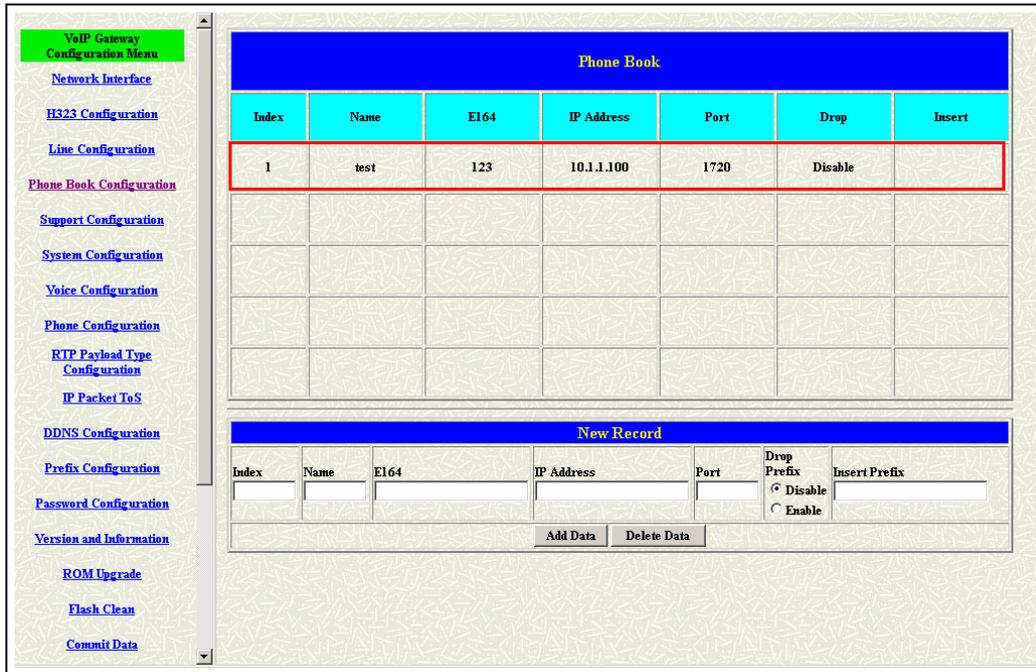


Figure 2.13: To show the Phone Book record

5 Please Commit it and Reboot the system if the configuration is finished.

**Please make sure about that the FXO port was connected with the PSTN line or the extension line of the PABX before you start to make a voip call.**

## 2.4.2 Configure the gateway into the GK routed mode

1 Enter the H323 Configuration table and change the mode from Peer-to-Peer to GK routed. To change the GK information from your service provider (Ex: The Gatekeeper IP, Registered Prefix and Registered Alias).

**VoIP Gateway Configuration Menu**

- Network Interface
- H323 Configuration**
- Line Configuration
- Phone Book Configuration
- Support Configuration
- System Configuration
- Voice Configuration
- Phone Configuration
- RTP Payload Type Configuration
- IP Packet ToS
- DDNS Configuration
- Prefix Configuration
- Password Configuration
- Version and Information
- ROM Upgrade
- Flash Clean
- Commit Data

**H323 Configuration**

Mode:	<input checked="" type="radio"/> GK routed <input type="radio"/> Peer-to-Peer
Gatekeeper IP:	10.1.1.250
2nd Gatekeeper IP:	10.1.1.250
Default Gateway IP:	x
Gateway Type:	<input checked="" type="radio"/> Gateway <input type="radio"/> Terminal
Registered Prefix:	100
Line1/TEL1 Number:	1001
Line2/LINE1 Number:	1002
Line3/TEL2 Number:	1003
Line4/LINE2 Number:	1004
Line5 Number:	nil
Line6 Number:	nil
Registered Alias:	test
Display Information:	4FXO
Gatekeeper Discovery:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Gatekeeper ID:	GK

Figure 2.14: Configure the GK info

2 Press the OK button that is on the bottom of this page to save the configuration.

**VoIP Gateway Configuration Menu**

- Network Interface
- H323 Configuration**
- Line Configuration
- Phone Book Configuration
- Support Configuration
- System Configuration
- Voice Configuration
- Phone Configuration
- RTP Payload Type Configuration
- IP Packet ToS
- DDNS Configuration
- Prefix Configuration
- Password Configuration
- Version and Information
- ROM Upgrade
- Flash Clean
- Commit Data

**H323 Configuration**

Registered Alias:	test
Display Information:	4FXO
Gatekeeper Discovery:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Gatekeeper ID:	GK
Time To Live (TTL):	60
RTP Port:	16384
Gatekeeper finding port:	1718
Gatekeeper RAS Port:	1719
H225 RAS Port:	1024
H225 Call Signal Port:	1720
Destination H225 Call Signal Port:	1720
Allocate Port Range Start:	2000
Allocate Port Range End:	19999
Response Timeout:	15
Connection Timeout:	60
H.235 Security Token:	*
<b>OK</b>	

Figure 2.15: Press OK to save the data

3 Press the Commit Data and Reboot System buttons when you finished the configuration.

### **2.4.2.1 The type in GK routed mode**

There are two types in the GK routed mode you could choose. One is Gateway type and another is Terminal type. There are some different functions, applications and configurations between the Gateway type and Terminal type. In FXO series gateway, the difference between the Gateway and Terminal type is for registering on the Cisco GK. The Terminal type is needed if the endpoints want to register on the Cisco GK successfully. But all the configuration and function is the same if you set the gateway in Gateway or Terminal type. Another difference is for the one-stage-dialing function. Only the gateway type could support the one-stage-dialing function.