

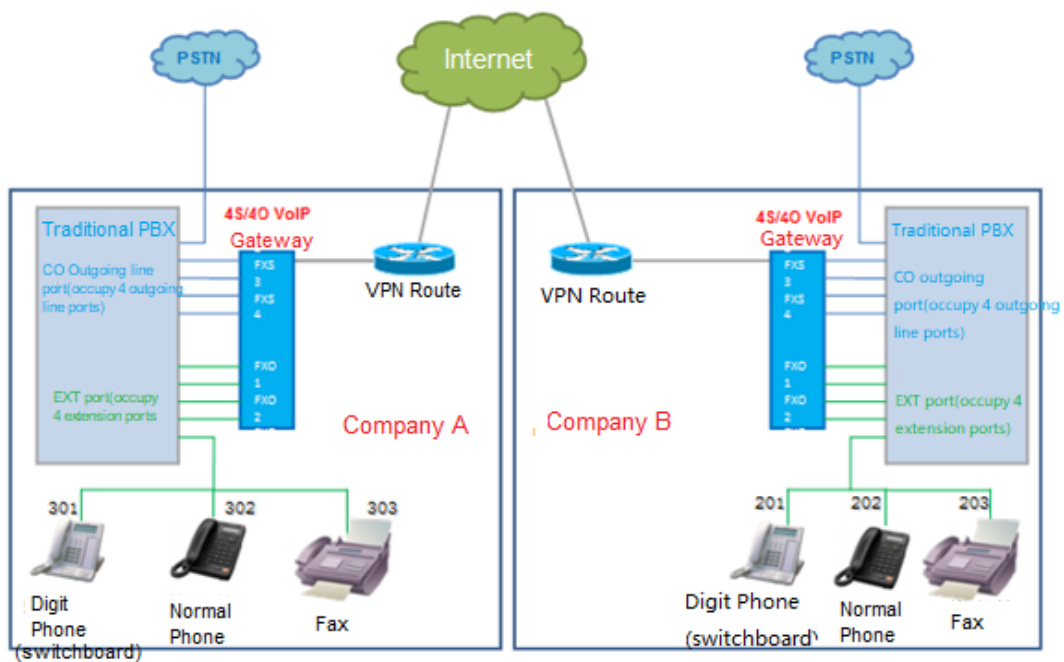
## “User’s Demand”

Traditional PBXs are in use by the user, and they need to be able to make free calls between traditional PBX extensions in the headquarter and branches.

## “Solution”

Connect two RGW Gateways via VPN, and RGW connects to the trunk port of traditional PBX via the FXS port & the extension board of traditional PBX via the FXO port, allowing free calling between the headquarter and branches.

## “Topology”



## “Configuration of Gateway”

Based on the picture above, we make the following assumption:

---The extension number section of PBX-A is 3xx, the extension number section of PBX-B is 2xx

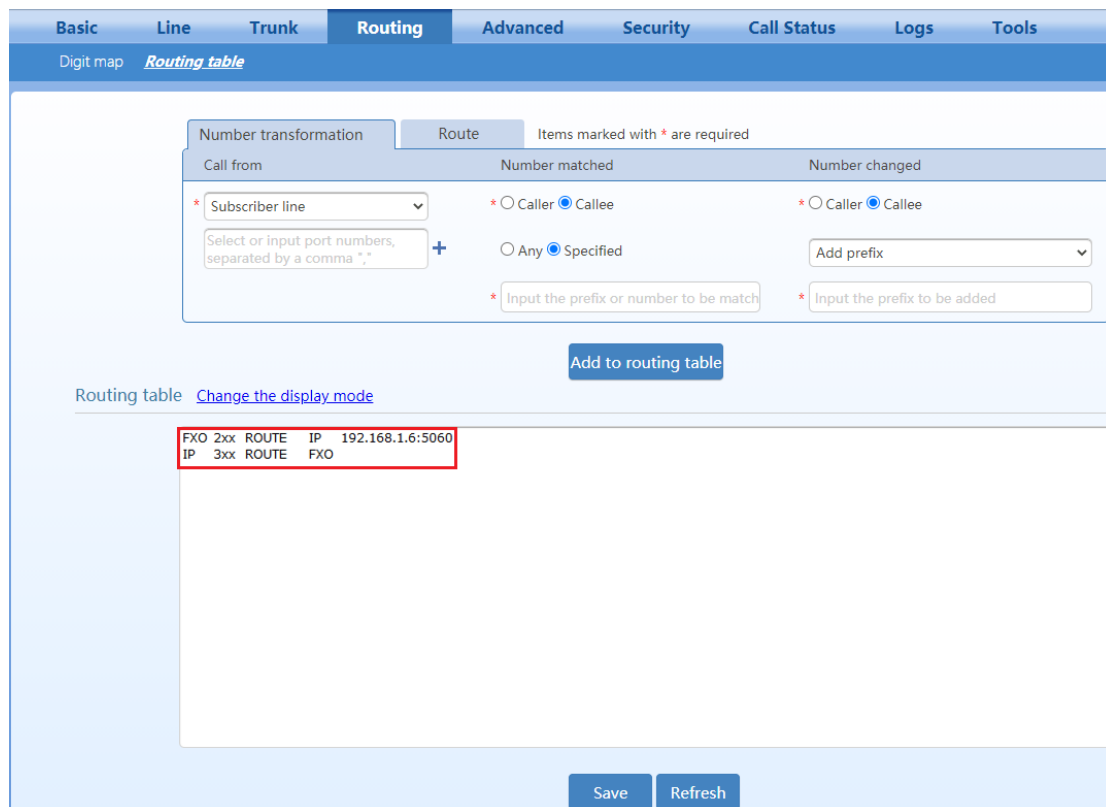
---The IP address of RGW-A is 192.168.1.5, the IP address of RGW-B is 192.168.1.6

### Step 1: Configure the routing tables on both RGW Gateways

On **Routing > Routing Table** page, setup the routing rules and save it, as shown below:

In RGW-A, add the routing rules as follows:

FXO 2xx ROUTE IP 192.168.1.6:5060  
IP 3xx ROUTE FXO



Basic Line Trunk **Routing** Advanced Security Call Status Logs Tools

Digit map *Routing table*

Number transformation Route Items marked with \* are required

Call from Number matched Number changed

\* Subscriber line \*  Caller  Callee \*  Caller  Callee

Select or input port numbers, separated by a comma " , " +  Any  Specified Add prefix

\* Input the prefix or number to be match \* Input the prefix to be added

Add to routing table

Routing table [Change the display mode](#)

|         |       |     |                  |
|---------|-------|-----|------------------|
| FXO 2xx | ROUTE | IP  | 192.168.1.6:5060 |
| IP 3xx  | ROUTE | FXO |                  |

Save Refresh

In RGW-B, add the routing rules as follows:

FXO 3xx ROUTE IP 192.168.1.5:5060

IP 2xx ROUTE FXO

Basic Line Trunk **Routing** Advanced Security Call Status Logs Tools

Digit map *Routing table*

Number transformation Route Items marked with \* are required

| Call from   | Number matched   | Number changed   |
|---|--|--|
| * Subscriber line<br>Select or input port numbers, separated by a comma " , " | * <input type="radio"/> Caller <input checked="" type="radio"/> Callee<br><input type="radio"/> Any <input checked="" type="radio"/> Specified<br>* Input the prefix or number to be match | * <input type="radio"/> Caller <input checked="" type="radio"/> Callee<br>Add prefix<br>* Input the prefix to be added |

Add to routing table

Routing table [Change the display mode](#)

|         |       |     |                  |
|---------|-------|-----|------------------|
| FXO 3xx | ROUTE | IP  | 192.168.1.5:5060 |
| IP 2xx  | ROUTE | FXO |                  |

Save Refresh

**Step 2: Configure the Digit Map on both RGW Gateways.** On **Routing>Digit map** page, input the following digits and save it, as shown below:

[3,2]xx

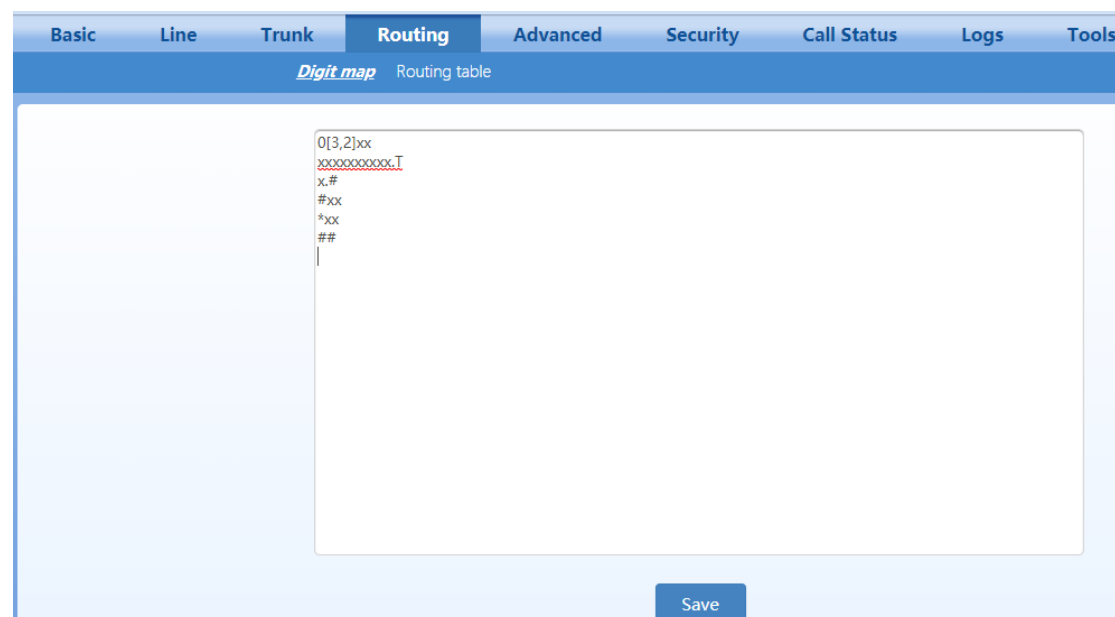
xxxxxxxxxxx.T

x.#

#xx

\*xx

##



## “Dialing Rules”

From PBX-A to PBX-B, call extension 2xx.

--- Dial prefix on the extension of PBX-A to connect with the FXO port of RGW-A, then dial the extension number 2xx of PBX-B.

--- According to routing, RGW-A will send the call from the FXO port to RGW-B, and RGW-B will send the call to PBX-B and connect the called extension from the FXO port after receiving the call.

--- Calling PBX-A from PBX-B follows the same procedure.