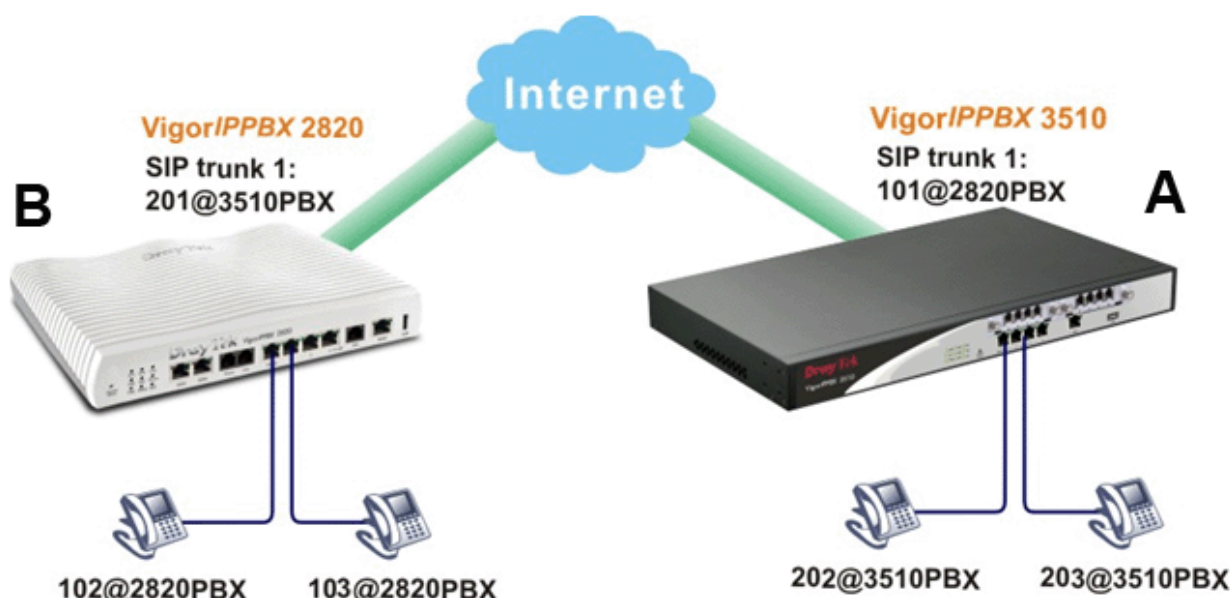


# How to make a phone call for extensions in different IPPBX routers

A company uses VigorIPPBX 3510 as a telephone system in place A and uses IPPBX 2820 as a telephone system in place B. There are two extensions 202 and 203 registered to VigorIPPBX 3510, and two extensions 102 and 103 registered to VigorIPPBX 2820. Refer to the following figure.



From the above figure, if we want to make a phone call among extensions in VigorIPPBX 3510 and IPPBX 2820, we have to register an SIP trunk of VigorIPPBX 3510 to VigorIPPBX 2820 with an account of 101@2820PBX; register an SIP trunk of VigorIPPBX 2820 to VigorIPPBX 3510 with an account of 201@3510PBX.

## Configure Settings in VigorIPPBX 3510 / VigorIPPBX 2820

1. Access into the web configuration interface of VigorIPPBX 3510.
2. Open **IP PBX > Line Settings**.

[IP PBX >> Line Setting](#)

[Line Setting](#)

[SIP Trunk](#)  
[PSTN Trunk](#)

3. Choose **SIP Trunk** and click any index number to open the detailed setting page.
4. Type a name (e.g., 2820PBX-101 in this case) in the field of **Profile Name**; type the IP address of VigorIPPBX 2820 in the fields of **Domain/Realm** and **Proxy**; type the registered account (e.g., 101 in this case) in the fields of **Account Number/Name** and **Authentication ID**; and type the password for registration in the field of **Password**.

### SIP Trunk Index 1

|   |  |                |
|---|--|----------------|
| Profile Name  | <input type="text" value="2820PBX-101"/>   | (11 char max.) |
| Register via  | <input type="button" value="Auto"/> <input type="checkbox"/> Call without Registration |                |
| SIP Local Port  | <input type="text" value="5070"/>  |                |
| Domain/Realm  | <input type="text" value="218.160.234.236"/>   | (63 char max.) |
| Proxy   | <input type="text" value="218.160.234.236"/>   | (63 char max.) |
| Proxy Port  | <input type="text" value="5060"/>  |                |
| Display Name  | <input type="text" value="101"/>   | (23 char max.) |
| Account Number/Name                                   | <input type="text" value="101"/>   | (63 char max.) |
| <input checked="" type="checkbox"/> Authentication ID | <input type="text" value="101"/>   | (63 char max.) |
| Password  | <input type="text" value="..."/>   | (63 char max.) |
| Expiry Time   | <input type="button" value="10 mins"/> <input type="text" value="600"/> sec            |                |
| Trunk number  | <input type="text" value="001"/>   | (3 char max.)  |
| Out-going call CLI                                    | <input checked="" type="radio"/> Main number<br><input type="radio"/> Alias number     |                |
| Office hours answer mode                              | <input type="button" value="Auto Attendant"/>  |                |
| Non-Office hours answer mode                          | <input type="button" value="Auto Attendant"/>  |                |

**Note:** SIP Local Port can not be equal to PBX Proxy Port.

- After finished the configuration, VigorIPPBX 3510 will be registered to VigorIPPBX 2820 as an extension (101). Press **OK** to save the settings.
- If the registration is successfully, the field of **Status** in **IP PBX>>SIP Trunk List** will be displayed with **R**.

### IP PBX >> SIP Trunk List

#### SIP Trunk List

Refresh Seconds:

[Refresh](#)

| Index              | Profile Name | Domain/Realm    | Proxy           | Account Number/Name | Trunk Number | Status |
|--------------------|--------------|-----------------|-----------------|---------------------|--------------|--------|
| <a href="#">1.</a> | 2820PBX-101  | 218.160.234.236 | 218.160.234.236 | 101                 | 001          | R      |
| <a href="#">2.</a> |              |                 |                 |                     | 002          | -      |
| <a href="#">3.</a> |              |                 |                 |                     | 003          | -      |
| <a href="#">4.</a> |              |                 |                 |                     | 004          | -      |
| <a href="#">5.</a> |              |                 |                 |                     | 005          | -      |
| <a href="#">6.</a> |              |                 |                 |                     | 006          | -      |

**R:**Success registered on SIP server  
-:Fail to register on SIP server

#### [Alias List](#)

7. VigorIPPBX 2820 also needs to be registered to VigorIPPBX 3510 with extension number 201. The method of registration is the same as used in VigorIPBPX 3510. However, the registration must be done with the web configuration interface of VigorIPPBX 2820.

#### IP PBX >> SIP Trunk List

##### SIP Trunk Index 1

|   |  |                |
|---|--|----------------|
| Profile Name  | <input type="text" value="3510PBX-201"/>   | (11 char max.) |
| Register via  | <input type="button" value="Auto"/> <input type="checkbox"/> Call without Registration |                |
| SIP Local Port  | <input type="text" value="5070"/>  |                |
| Domain/Reallm   | <input type="text" value="59.115.247.248"/>  | (63 char max.) |
| Proxy   | <input type="text" value="59.115.247.248"/>  | (63 char max.) |
| Proxy Port  | <input type="text" value="5060"/>  |                |
| Display Name  | <input type="text" value="201"/>   | (23 char max.) |
| Account Number/Name                                   | <input type="text" value="201"/>   | (63 char max.) |
| <input checked="" type="checkbox"/> Authentication ID | <input type="text" value="201"/>   | (63 char max.) |
| Password  | <input type="text" value="..."/>   | (63 char max.) |
| Expiry Time   | <input type="button" value="30 mins"/> <input type="text" value="1800"/> sec           |                |
| Trunk number  | <input type="text" value="001"/>   | (3 char max.)  |
| Out-going call CLI                                    | <input checked="" type="radio"/> Main number<br><input type="radio"/> Alias number     |                |
| Office hours answer mode                              | <input type="button" value="Auto Attendant"/>  |                |
| Non-Office hours answer mode                          | <input type="button" value="Auto Attendant"/>  |                |

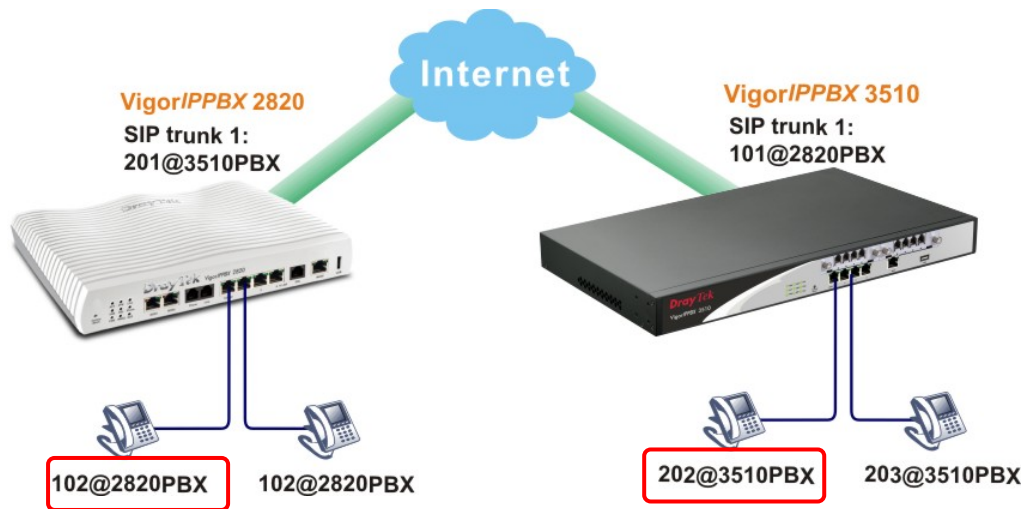
**Note:** SIP Local Port can not be equal to PBX Proxy Port.

OK

Cancel

## The Way of Operation

After finished the above configuration, there are three ways to make a phone call between VigorIPPBX 3510 and VigorIPPBX 2820. Take the extension (202) of VigorIPPBX 3510 calling the extension (102) of VigorIPPBX 2820 as an example:



- Dial 201 (the SIP trunk number in VigorIPPBX 2820) from 202 in IPPBX 3510. You will hear a voice reply first. Then, dial 102 and wait for a moment to communicate with 102.
- Dial 101 (the SIP trunk number in VigorIPPBX 3510) from 202 in IPPBX 3510. Then, dial 102 and wait for a moment to communicate with 102.
- Set one digit map rule in VigorIPPBX 3510. Make all the dialing number with prefix number “1” will be dialed out from SIP trunk 1. After finished the digit map setting, simply dial 102 from 202 in IPPBX 3510, both extensions can communicate with each other. Such method will be easier than above two methods for only one step must be taken.

As for the configuration of Digit Map, please open **IPPBX >> DialPlan** and choose **Digit Map**.

### IP PBX >> Dial Plan

#### Dial Plan Configuration

[Digit Map](#)  
[Phone Book](#)  
[Call Barring](#)

Check **Enable** to activate the setting; type 1 in the field of **Match Prefix**; and choose VoIP 1(SIP trunk 1) as **Route**. After these, phone number with prefix 1 will be dialed out by VoIP 1.

### IP PBX >> DialPlan Setup

| Digit Map Setup |                                     |              |      |           |         |         |                   |              |
|-----------------|-------------------------------------|--------------|------|-----------|---------|---------|-------------------|--------------|
| #               | Enable                              | Match Prefix | Mode | OP Number | Min Len | Max Len | Route             | Backup Route |
| 1               | <input checked="" type="checkbox"/> | 1            | None |           | 0       | 0       | VoIP1-2820PBX-101 | None         |
| 2               | <input type="checkbox"/>            |              | None |           | 0       | 0       | VoIP1-2820PBX-101 | None         |
| 3               | <input type="checkbox"/>            |              | None |           | 0       | 0       | VoIP1-2820PBX-101 | None         |