



FIBERME Communications LLC.

Configuring FEG4301 with Yeastar P-Series

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OVERVIEW

This document describes basic configuration to interconnect P550 series and FEG4301. In this document, we are using FEG4301 as an example. This is typically applied to the scenario where users would like to add a FEG4301 as an external ISDN trunk.



Warning:

When using the IVR in P550, please be aware that if "Dial Outbound Routes" option is turned on in IVR settings and selecting the permitted route, the call into the IVR will be able to dial outbound call using P550's trunk. Please select proper route for the IVR to control the outbound calls allowed via "Dial Outbound Routes".



CONNECT P550 TO FEG4301 USING PEER SIP TRUNK

Create IVR On P550

On the P550 web GUI, create an IVR extension under **Call Features->IVR**.

In IVR settings, if "Dial Extensions" is enabled, the calls dialing into the P550 IVR will be able to reach the internal extensions registered to the P550. Also, you can assign the "Key Press Event" to different destinations.

The screenshot displays the Yeastar P550 web GUI interface for creating a new IVR extension. The left sidebar shows the navigation menu with 'Call Features' expanded and 'IVR' selected. The main content area is titled 'Call Features / IVR / Add' and contains a form with two tabs: 'Basic' (active) and 'Key Press Event'. The form fields are as follows:

- Number:** Text input field containing '6200'.
- Name:** Text input field containing 'FEG4301_IVR'.
- Prompt:** Dropdown menu with '[Default]' selected.
- Response Timeout (s):** Dropdown menu with '3' selected.
- Prompt Repeat Count:** Dropdown menu with '3' selected.
- Digit Timeout (s):** Dropdown menu with '3' selected.
- IVR Alert Info:** Empty text input field.
- Dial Extensions:** Dropdown menu with 'Disable' selected.
- Dial Outbound Routes:** Unchecked checkbox.

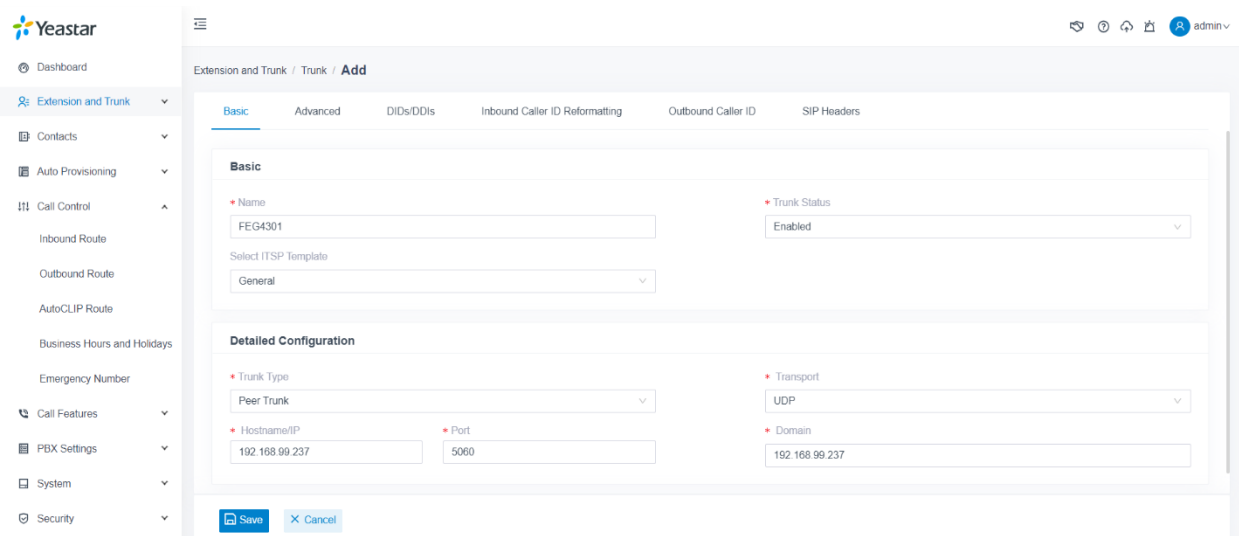
At the bottom of the form, there are two buttons: 'Save' (highlighted in blue) and 'Cancel'.

Figure 1: Create IVR 7000 on the P550



Create Peer SIP TRUNK On P550

On the P550 web GUI, create a peer SIP trunk under **Extension/Trunk ->Trunk**. In this example, the FEG4301 IP address is 192.168.99.237.



The screenshot displays the Yeastar P550 web GUI interface for creating a Peer SIP Trunk. The left sidebar shows the navigation menu with 'Extension and Trunk' selected. The main content area is titled 'Extension and Trunk / Trunk / Add' and features several tabs: 'Basic', 'Advanced', 'DIDs/DDIs', 'Inbound Caller ID Reformatting', 'Outbound Caller ID', and 'SIP Headers'. The 'Basic' tab is active, showing the following configuration fields:

- Name:** FEG4301
- Trunk Status:** Enabled
- Select ITSP Template:** General
- Trunk Type:** Peer Trunk
- Transport:** UDP
- Hostname/IP:** 192.168.99.237
- Port:** 5060
- Domain:** 192.168.99.237

At the bottom of the form, there are 'Save' and 'Cancel' buttons.

Figure 2: Create Peer SIP Trunk on the P550

Configure Outbound Rule on P550

On the P550 web GUI, go to **Call Control ->Outbound Route** to create a new outbound rule. This would allow the extension on the P550 to reach numbers in ISDN network via the peer SIP trunk we just configured.



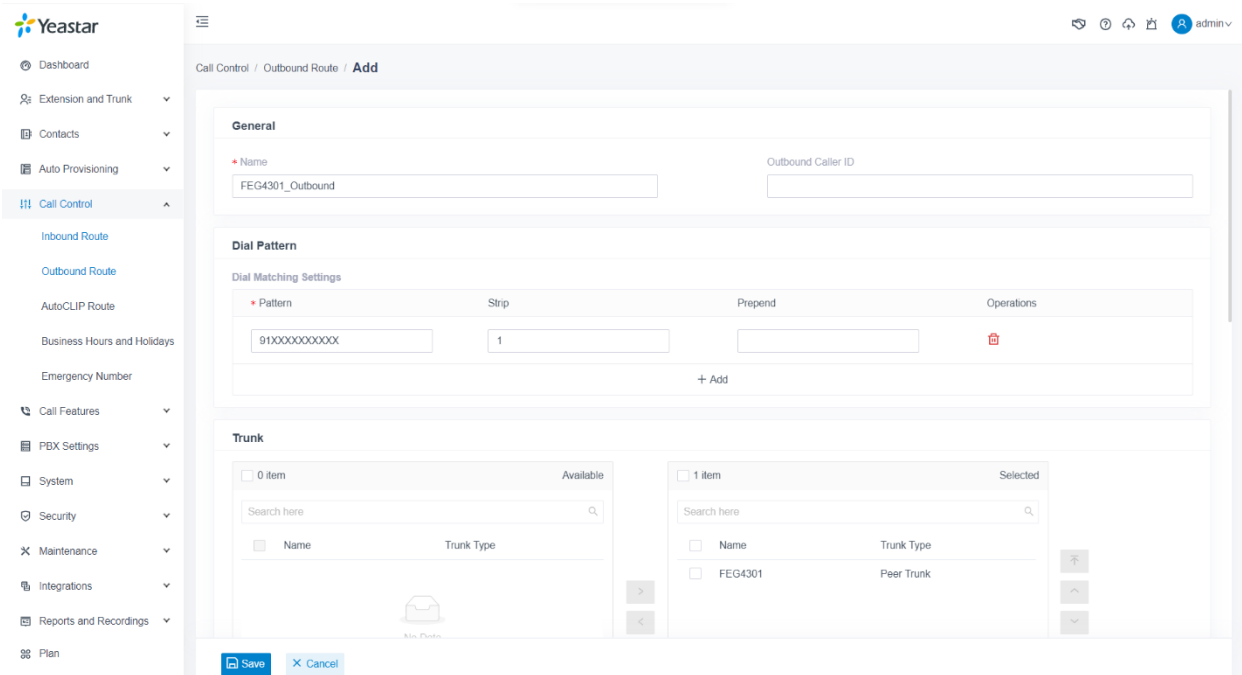


Figure 3: Configure Outbound Rule on the P550

In this example pattern "91XXXXXXXXXX", 9 is the first dialing digit and it will be stripped off when the call goes out.

Configure Inbound Rule on P550

On the P550 web GUI, go to **Call Control** -> **Inbound Route** to create a new inbound rule. Let's say that we have 30 numbers on the PRI starting from 1122334450 to 1122334479. In this example, we create the DID as **11223344XX** to receive calls through all the 30 numbers.



General

* Name: FEG4301_Inbound Inbound Alert Info

DID Pattern

* DID Matching Mode: DID Pattern

Pattern	Operations
11223344XX	
+ Add	

Trunk

0 item Available

Search here

Name	Trunk Type

1 item Selected

Search here

Name	Trunk Type
FEG4301	Peer Trunk

Default Destination

Default Destination: IVR * 6200-FEG4301_IVR

Time Condition

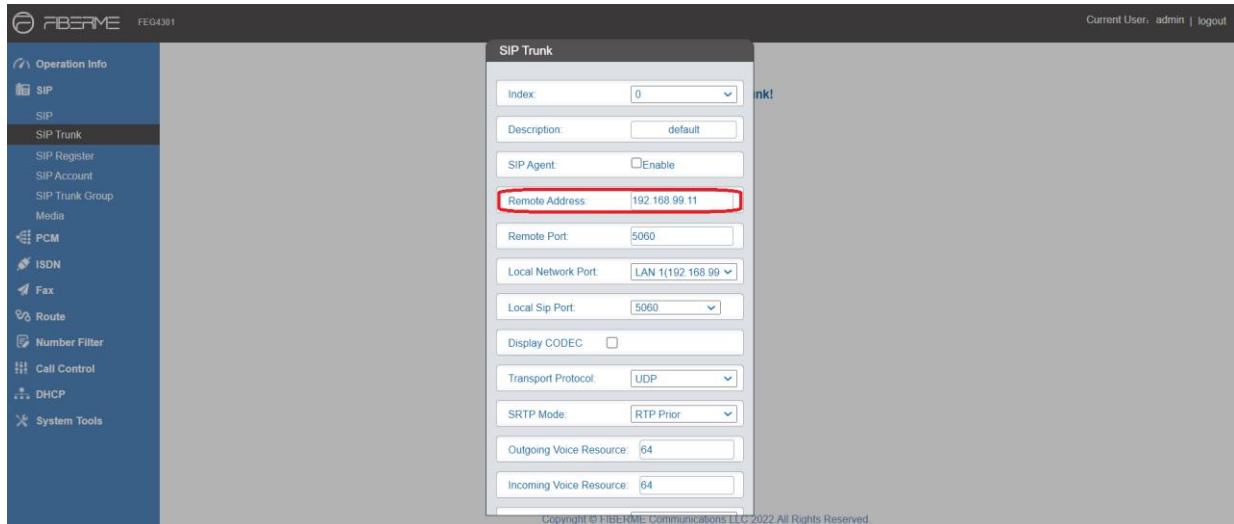
Figure 4: Configure Inbound Rule on P550

The default destination is configured to IVR. Ensure to select the proper extension for the IVR.



Connect FEG4301 with P550

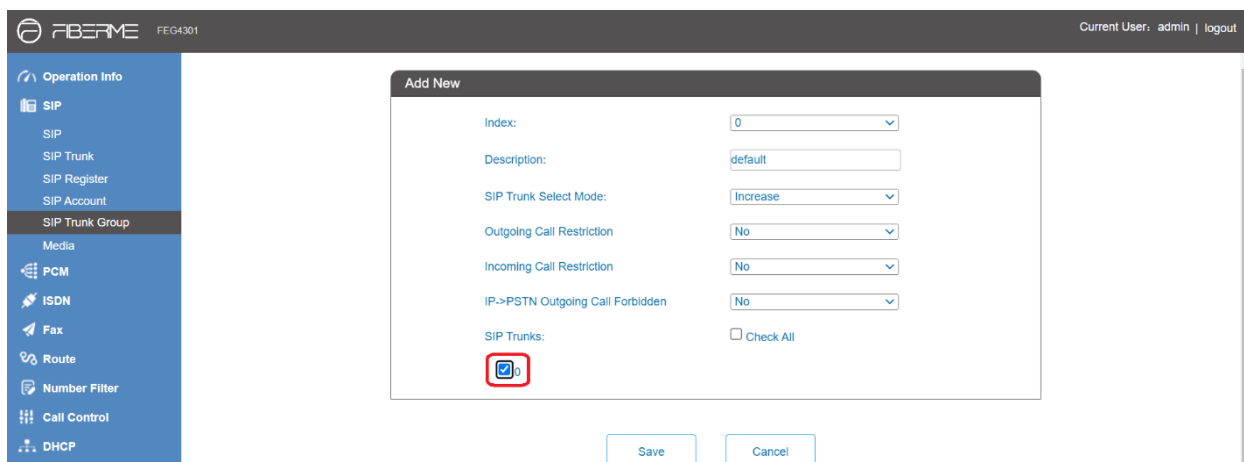
1. On the FEG4301 web GUI, go to the **VoIP->SIP Trunk** page and click on **Add New** button. Then, enter the IP address of the P550 that you are peering with in Remote Address. In the following example, P550 has IP address 192.168.99.11.



The screenshot shows the FEG4301 web GUI with the 'SIP Trunk' configuration page open. The 'Remote Address' field is highlighted with a red box and contains the IP address 192.168.99.11. Other fields include Index (0), Description (default), SIP Agent (unchecked), Remote Port (5060), Local Network Port (LAN 1(192.168.99)), Local Sip Port (5060), Display CODEC (unchecked), Transport Protocol (UDP), SRTP Mode (RTP Prior), Outgoing Voice Resource (64), and Incoming Voice Resource (64).

Figure 5: Connect FEG4301 with P550: Remote Address

2. Go to the **VoIP->SIP Trunk Group** page and click on **Add New** button. Then check on the trunk we've created.



The screenshot shows the FEG4301 web GUI with the 'Add New' dialog for a SIP Trunk Group open. The 'SIP Trunks' checkbox is checked and highlighted with a red box. Other fields include Index (0), Description (default), SIP Trunk Select Mode (Increase), Outgoing Call Restriction (No), Incoming Call Restriction (No), IP->PSTN Outgoing Call Forbidden (No), and SIP Trunks (unchecked). There are 'Save' and 'Cancel' buttons at the bottom.

Figure 6: Connect FEG4301 with P550: SIP Trunk Group



Create PCM Trunk Group on FEG4301

1. On the FEG4301 web GUI, go to the **PCM->PCM Trunk Group** page and press “Add New”. Then, check mark on the PCM trunk.

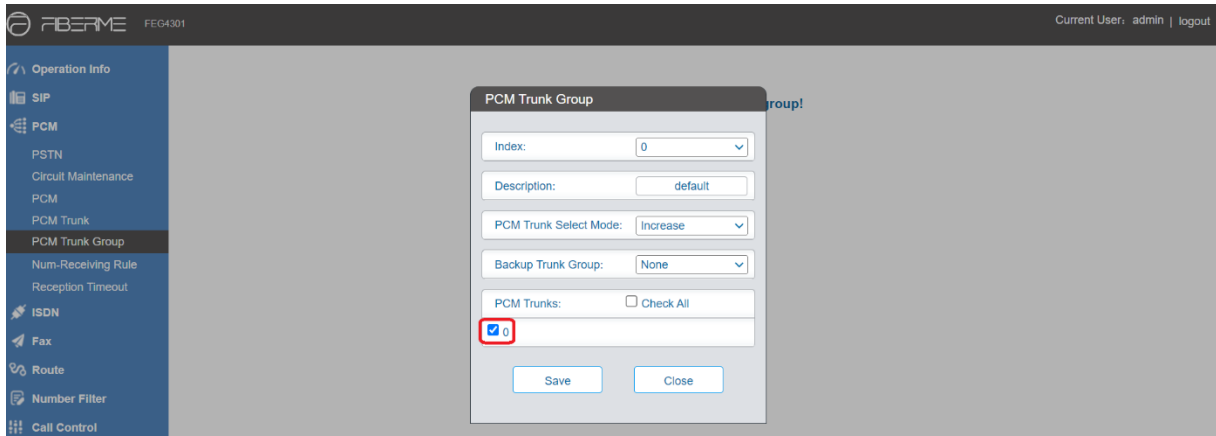


Figure 7: Create PCM Trunk Group on FEG4301



FEG4301 CALL Routing

Configure IP to PSTN on FEG4301

1. On the FEG4301 web GUI, go to the **Route-> IP->PSTN** page, Press “Add New”.

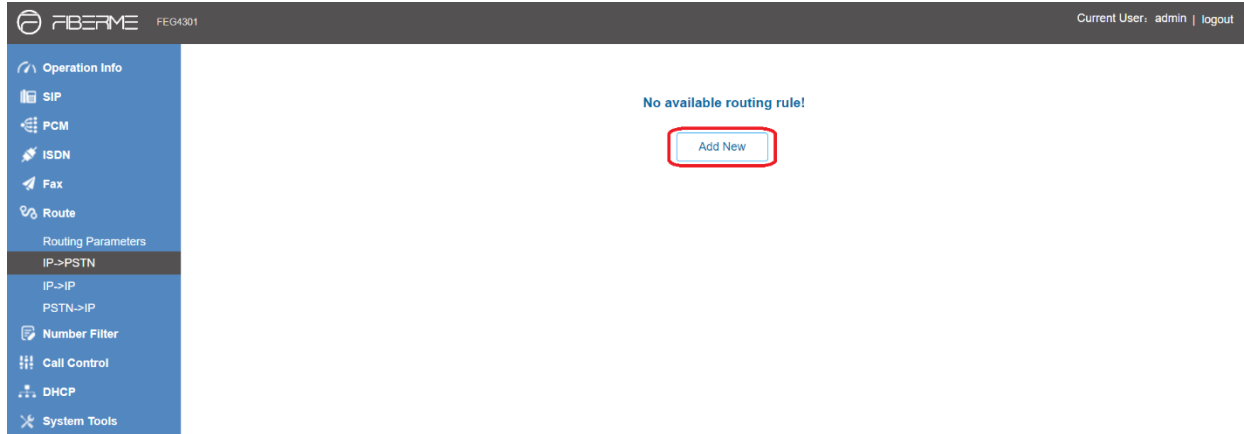


Figure 8: FEG4301 – IP to PSTN

2. Select the SIP Trunk Group in “Call Source” and the PCM Trunk Group in “Call Destination”.

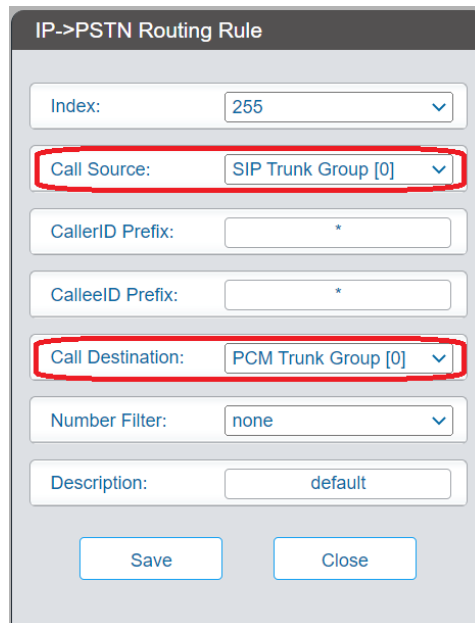
The screenshot shows the "IP->PSTN Routing Rule" configuration dialog box. It contains several fields: "Index" (255), "Call Source" (SIP Trunk Group [0]), "CallerID Prefix" (*), "CalleeID Prefix" (*), "Call Destination" (PCM Trunk Group [0]), "Number Filter" (none), and "Description" (default). The "Call Source" and "Call Destination" fields are highlighted with red boxes. At the bottom are "Save" and "Close" buttons.

Figure 9: IP to PSTN Settings



Configure PSTN to IP on FEG4301

1. On the FEG4301 web GUI, go to the **Route-> PSTN->IP** page, Press “Add New”.

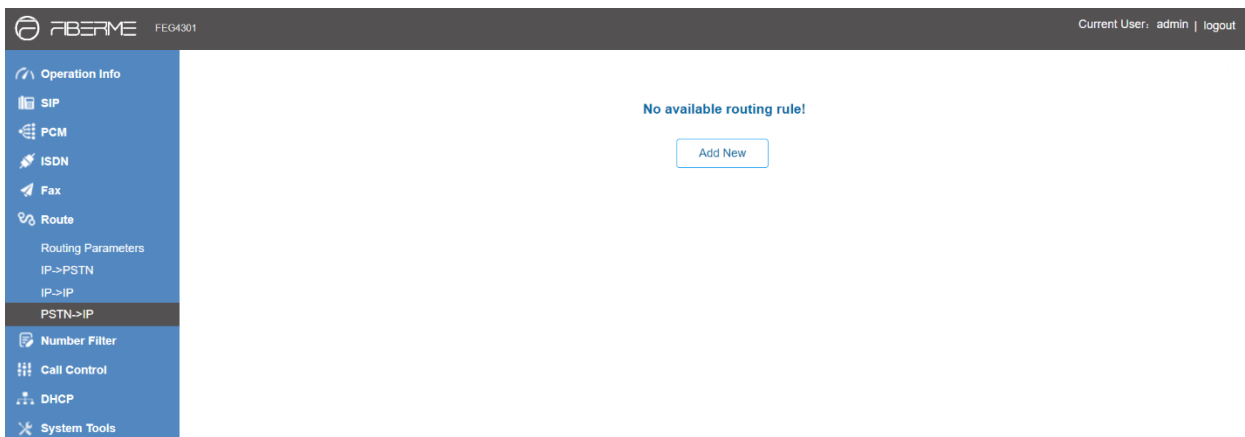


Figure 10: FEG4301 – PSTN to IP

2. Select the PCM Trunk Group in “Call Initiator” and the SIP Trunk Group in “Call Destination”.

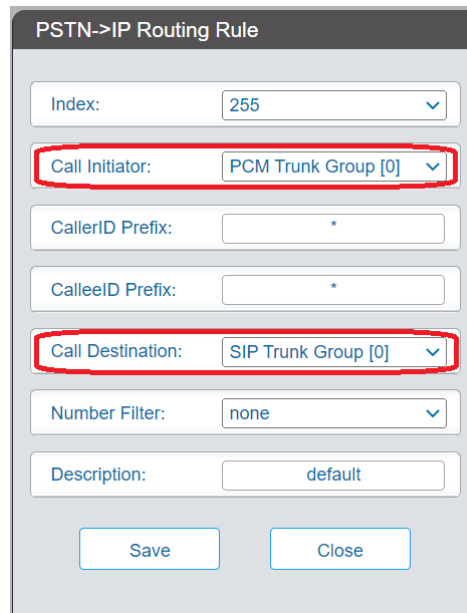
The screenshot shows a 'PSTN->IP Routing Rule' configuration window. It has several fields: 'Index' (255), 'Call Initiator' (PCM Trunk Group [0]), 'CallerID Prefix' (*), 'CalleeID Prefix' (*), 'Call Destination' (SIP Trunk Group [0]), 'Number Filter' (none), and 'Description' (default). The 'Call Initiator' and 'Call Destination' fields are highlighted with red rectangles. At the bottom, there are 'Save' and 'Close' buttons.

Figure 11: PSTN to IP Settings

