

MWG1000 Series connect to Elastix

User Manual

Version 1.0

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1. Introduction

1.1 Overview

This application note shows how to connect MWG1000 Series to Elastix via IP trunking. In this guide, we will take MWG1004 as an example; the same configuration will apply to other MWG1000 Series products.

Description:

Elastix IP address : 192.168.6.252 Elastix Version:2.5.0

MWG1004 IP address: 192.168.6.55

2. Connect Elastix to MWG1004

2.1 Create a Service Provider SIP Trunk on Elastix

Path: PBX→Trunks→Add SIP Trunk

Figure 2-1-1

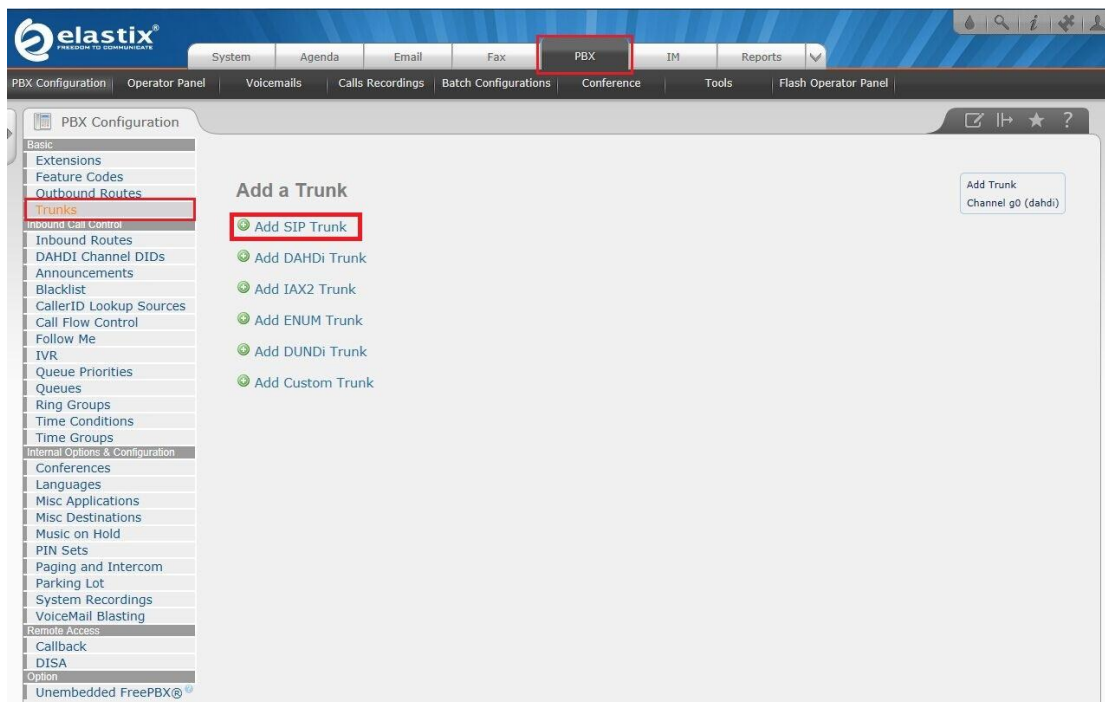
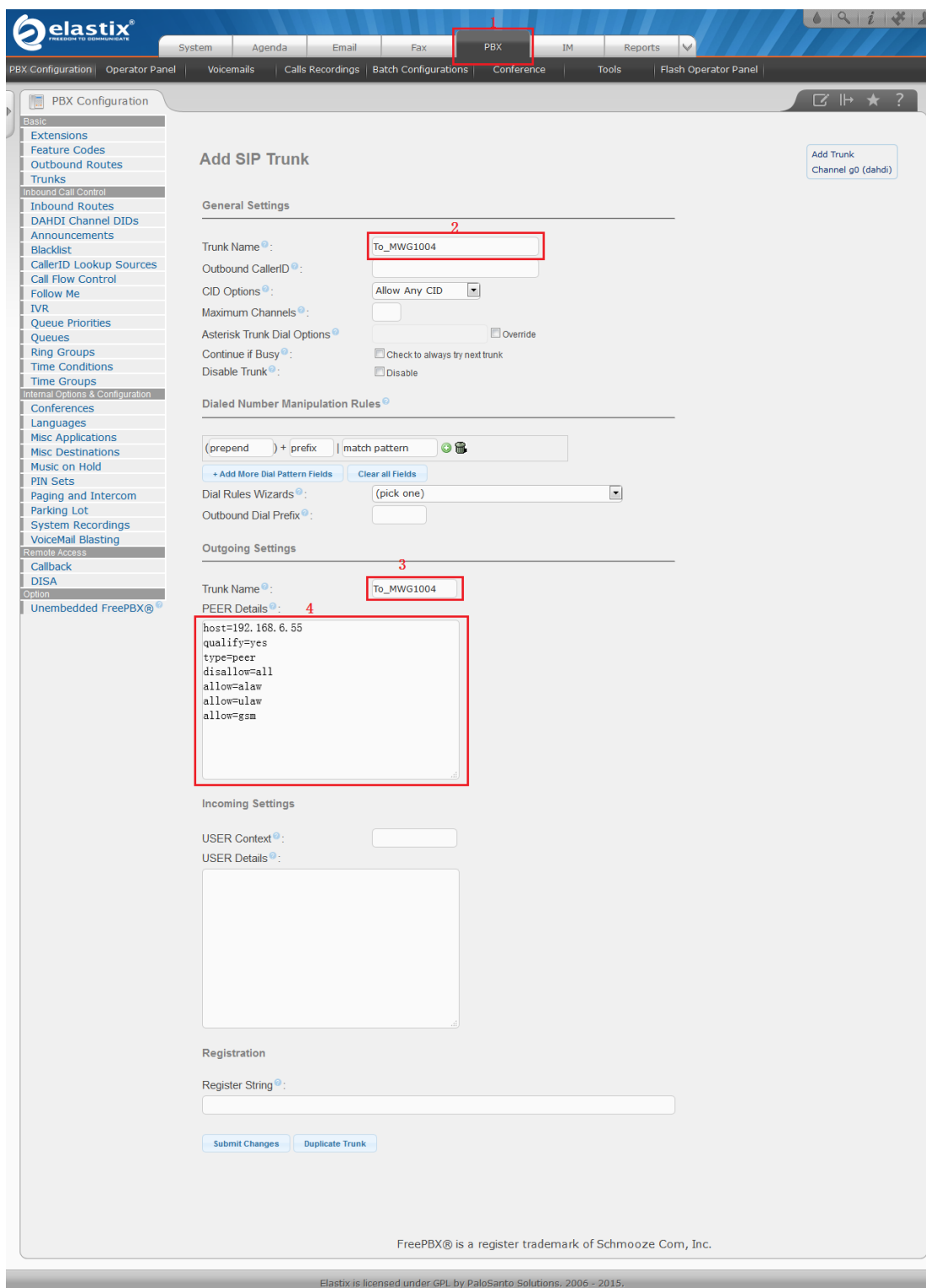


Figure 2-1-2



elastix
FREEDOM TO COMMUNICATE

System | Agenda | Email | Fax | **PBX** | IM | Reports

PBX Configuration | Operator Panel | Voicemails | Calls Recordings | Batch Configurations | Conference | Tools | Flash Operator Panel

PBX Configuration

Basic
Extensions
Feature Codes
Outbound Routes
Trunks
Inbound Call Control
Inbound Routes
DAHDI Channel DIDs
Announcements
Blacklist
CallerID Lookup Sources
Call Flow Control
Follow Me
IVR
Queue Priorities
Queues
Ring Groups
Time Conditions
Time Groups
Internal Options & Configuration
Conferences
Languages
Misc Applications
Misc Destinations
Music on Hold
PIN Sets
Paging and Intercom
Parking Lot
System Recordings
VoiceMail Blasting
Remote Access
Callback
DISA
Option
Unembedded FreePBX®

Add SIP Trunk

Add Trunk
Channel g0 (dahdi)

General Settings

Trunk Name: **To_MWG1004**

Outbound CallerID:

CID Options: Allow Any CID

Maximum Channels:

Asterisk Trunk Dial Options: ☐ Override

Continue if Busy: ☐ Check to always try next trunk

Disable Trunk: ☐ Disable

Dialed Number Manipulation Rules

(prepend) + prefix | match pattern

+ Add More Dial Pattern Fields | Clear all Fields

Dial Rules Wizards: (pick one)

Outbound Dial Prefix:

Outgoing Settings

Trunk Name: **To_MWG1004**

PEER Details

```
host=192.168.6.55
qualify=yes
type=peer
type=peer
disallow=all
allow=alaw
allow=ulaw
allow=gsm
```

Incoming Settings

USER Context:

USER Details:

Registration

Register String:

Submit Changes | Duplicate Trunk

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PEER Details:

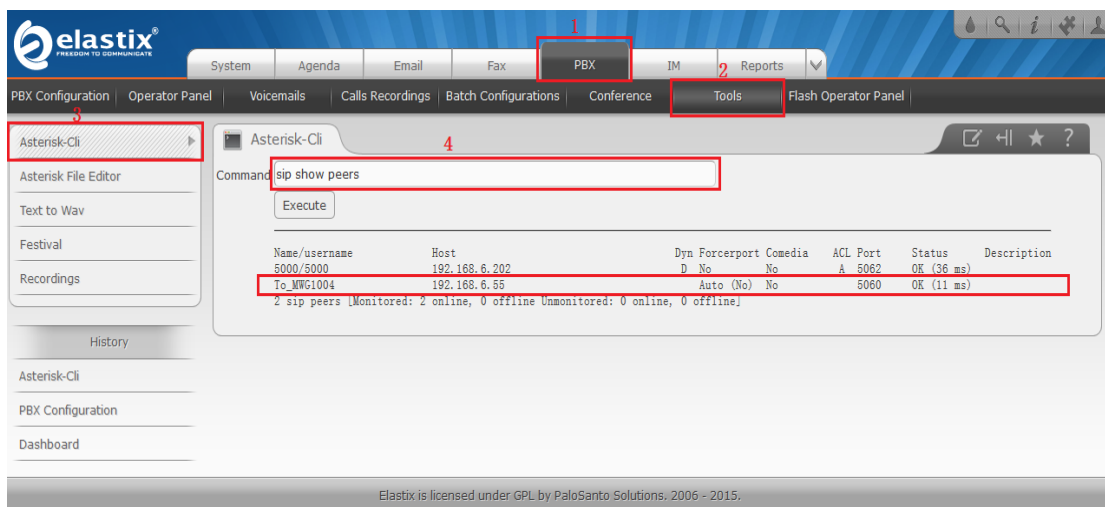
host=192.168.6.55
 type=peer
 qualify=yes
 disallow=all
 allow=ulaw
 allow=alaw
 allow=gsm

After creating the SIP trunk, we can check the status of this trunk, it should be OK.

Path: pbx→Tools→Asterisk-Cli

Log in the Elastix Asterisk CLI, enter the command "sip show peers" and click "Execute", the status will be seen.

Figure 2-1-3



2.2 Create a VoIP Trunk on MWG1004

Path: VoIP Configuration→IP Trunk→IP Trunk Add

Figure 2-2-1

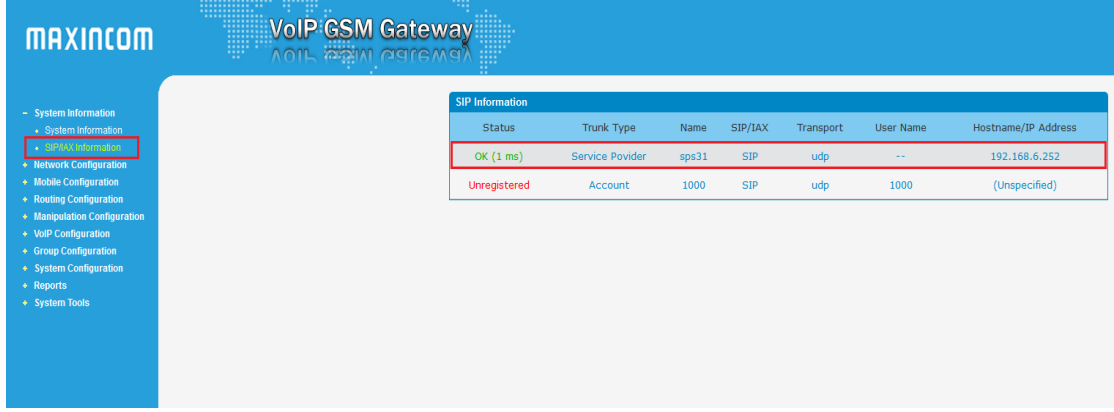


Description(Provider Name):To_ Elastix

Hostname/IP(Elastix IP address.): 192.168.6.252

After saving and applying the changes, you will see the trunk status is "ok" in "SIP Information".

Figure 2-2-2



The screenshot shows the MAXINCOM VoIP GSM Gateway configuration interface. On the left is a sidebar menu with options: System Information, SIP Information (highlighted with a red box), Network Configuration, Mobile Configuration, Routing Configuration, Manipulation Configuration, VoIP Configuration, Group Configuration, System Configuration, Reports, and System Tools. The main area displays the 'SIP Information' table.

Status	Trunk Type	Name	SIP/IAX	Transport	User Name	Hostname/IP Address
OK (1 ms)	Service Provider	sps31	SIP	udp	--	192.168.6.252
Unregistered	Account	1000	SIP	udp	1000	(Unspecified)

3. IP To Tel(Mobile)

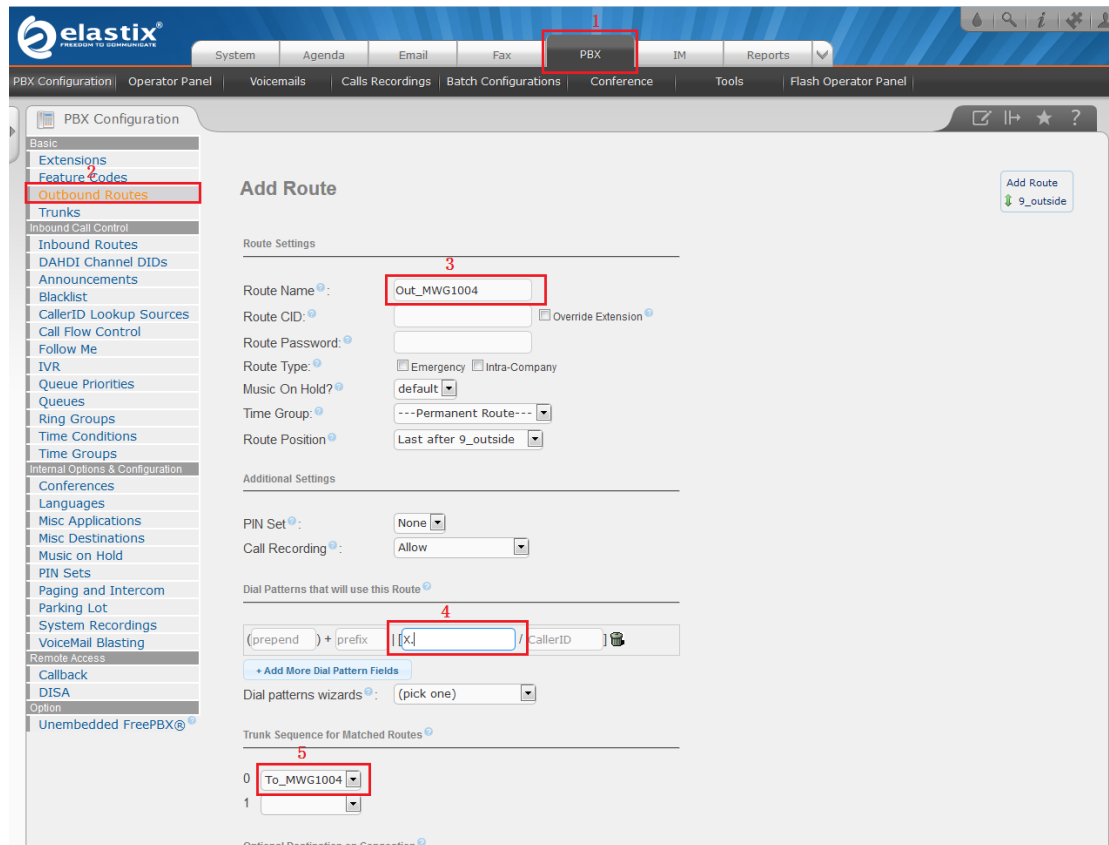
In this section, we will configure outbound call from Elastix through MWG1000 Series.

3.1 Create an Outbound Route on Elastix

Path: PBX→Outbound Routes→Add Route

Choose the VoIP trunk "To_mwg1004" and set the rule for the outbound as the picture shows, which allows users to dial any number.

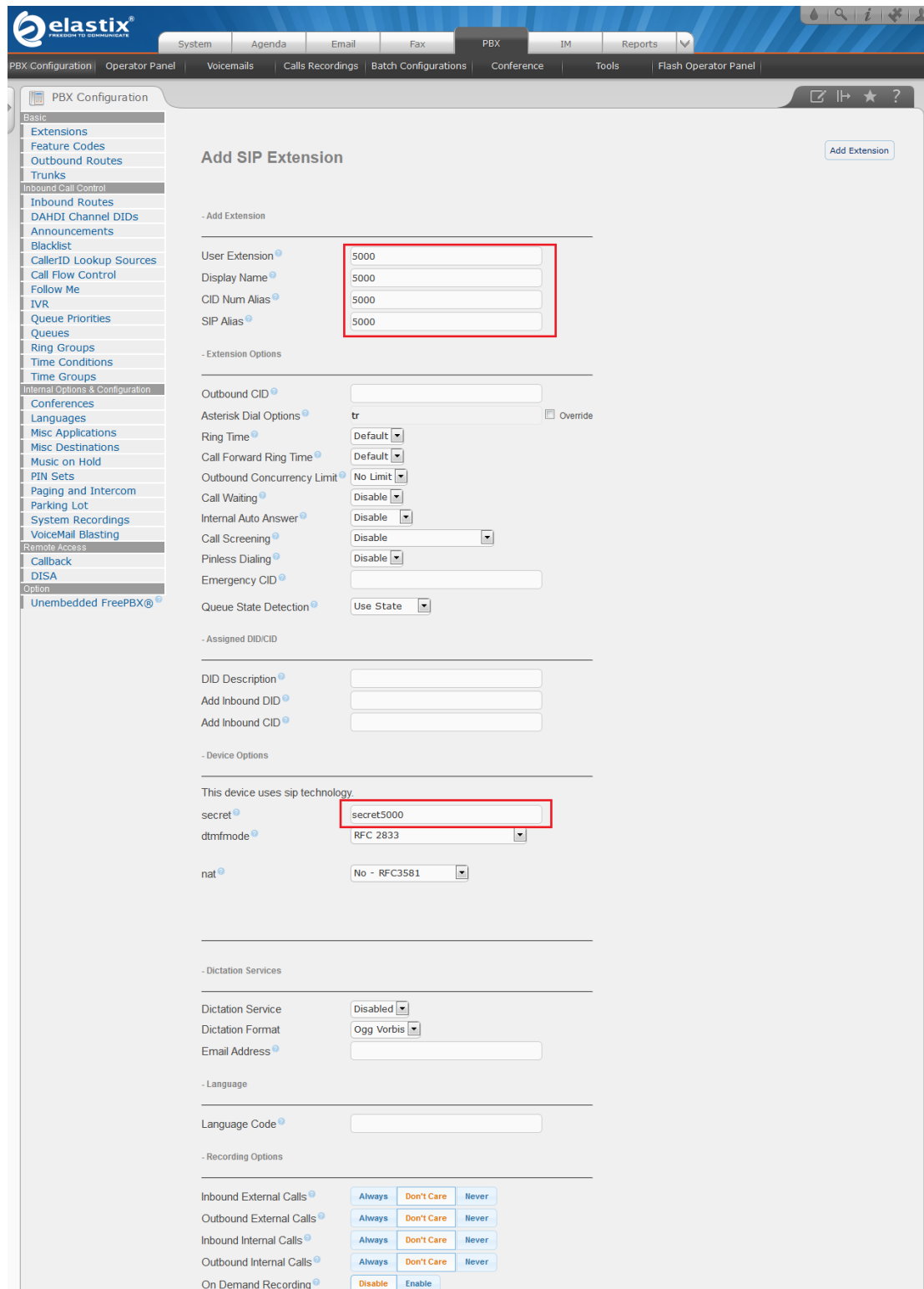
Figure 3-1-1



The screenshot displays the Elastix PBX Configuration interface. The top navigation bar includes tabs for System, Agenda, Email, Fax, PBX (highlighted with a red box and number 1), IM, and Reports. The left sidebar shows a tree view of configuration options, with 'Outbound Routes' (highlighted with a red box and number 2) selected under the 'PBX Configuration' section. The main content area is titled 'Add Route' and contains several sections: 'Route Settings' with fields for Route Name (Out_MWG1004, highlighted with a red box and number 3), Route CID, Route Password, Route Type (Emergency and Intra-Company), Music On Hold?, Time Group, and Route Position; 'Additional Settings' with fields for PIN Set and Call Recording; 'Dial Patterns that will use this Route' with a field for Dial Patterns (containing '[X]', highlighted with a red box and number 4) and a 'Dial patterns wizards' dropdown; and 'Trunk Sequence for Matched Routes' with a dropdown menu (highlighted with a red box and number 5) showing 'To_MWG1004'. A 'Call ID' field is also visible next to the dial patterns field.

3.2 Create a SIP Extension on Elastix

Figure 3-2-1



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PBX Configuration

Basic

- Extensions
- Feature Codes
- Outbound Routes
- Trunks
- Inbound Call Control
- Inbound Routes
- DAHDI Channel DIDs
- Announcements
- Blacklist
- CallerID Lookup Sources
- Call Flow Control
- Follow Me
- IVR
- Queue Priorities
- Queues
- Ring Groups
- Time Conditions
- Time Groups
- Internal Options & Configuration
- Conferences
- Languages
- Misc Applications
- Misc Destinations
- Music on Hold
- PIN Sets
- Paging and Intercom
- Parking Lot
- System Recordings
- VoiceMail Blasting
- Remote Access
- Callback
- DISA
- Option
- Unembedded FreePBX®

Add SIP Extension

- Add Extension

User Extension

Display Name

CID Num Alias

SIP Alias

- Extension Options

Outbound CID

Asterisk Dial Options ☐ Override

Ring Time

Call Forward Ring Time

Outbound Concurrency Limit

Call Waiting

Internal Auto Answer

Call Screening

Pinless Dialing

Emergency CID

Queue State Detection

- Assigned DID/CID

DID Description

Add Inbound DID

Add Inbound CID

- Device Options

This device uses sip technology

secret

dtmfmode

nat

- Dictation Services

Dictation Service

Dictation Format

Email Address

- Language

Language Code

- Recording Options

Inbound External Calls

Outbound External Calls

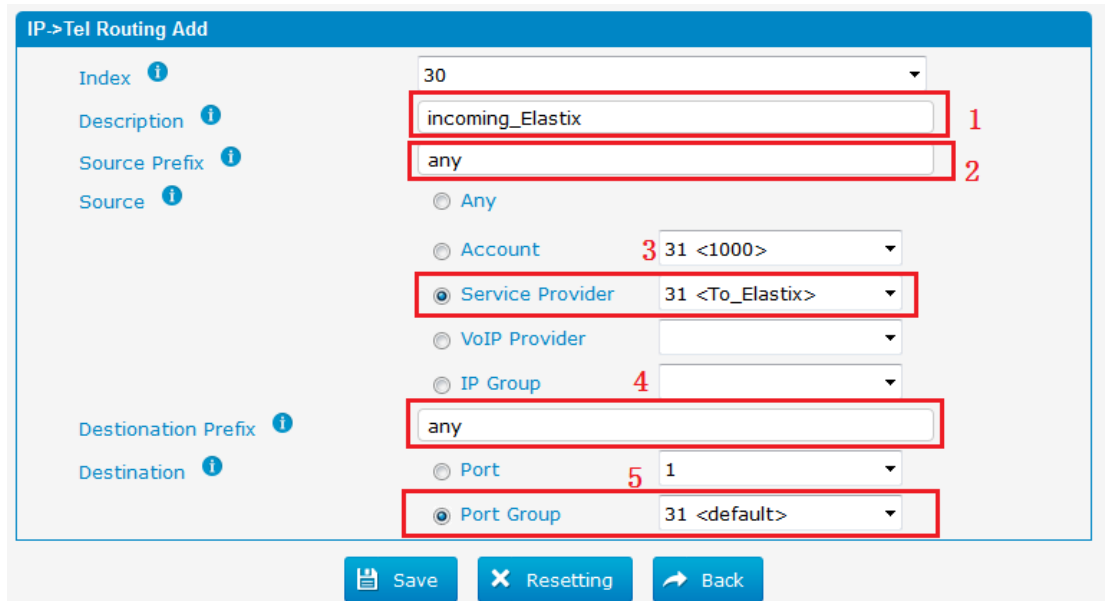
Inbound Internal Calls

Outbound Internal Calls

On Demand Recording

3.3 Create an IP ->Tel(Mobile) Routing on MWG1004

Figure 3-3-1



IP->Tel Routing Add

Index *i* 30

Description *i* incoming_Elastix **1**

Source Prefix *i* any **2**

Source *i*

☐ Any

☐ Account **3** 31 <1000>

☒ Service Provider 31 <To_Elastix>

☐ VoIP Provider

☐ IP Group **4**

Destination Prefix *i* any

Destination *i*

☐ Port **5** 1

☒ Port Group 31 <default>

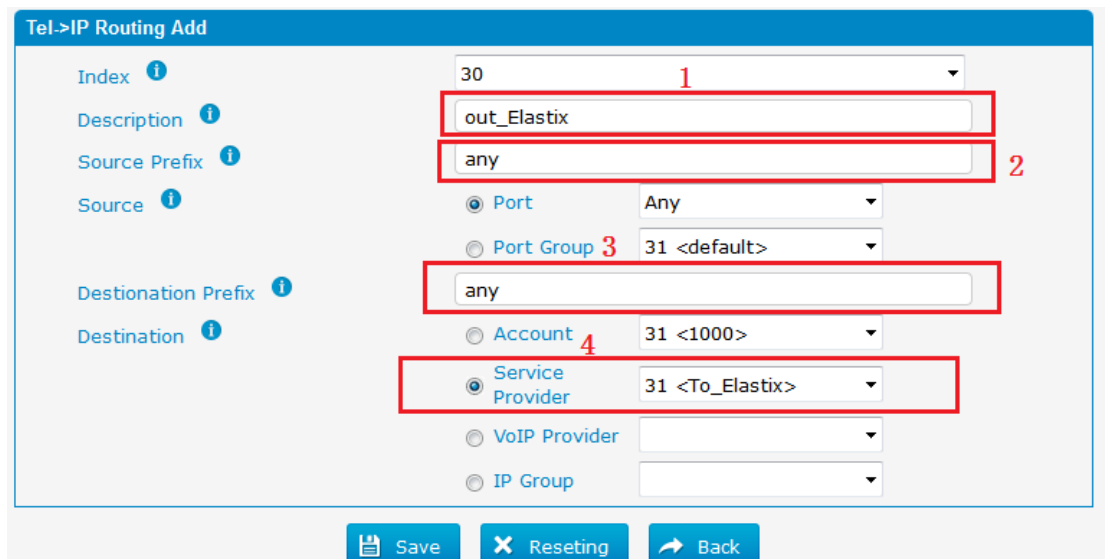
Save **Resetting** **Back**

Save it and apply the changes, then you can dial outbound calls from Elastix via MWG1004.

4. Tel(Mobile) To IP

4.1 Create an Tel(Mobile) -> IP Routing

Figure 4-1-1



Tel->IP Routing Add

Index *i* 30 **1**

Description *i* out_Elastix

Source Prefix *i* any **2**

Source *i*

☒ Port Any

☐ Port Group **3** 31 <default>

Destination Prefix *i* any

Destination *i*

☐ Account **4** 31 <1000>

☒ Service Provider 31 <To_Elastix>

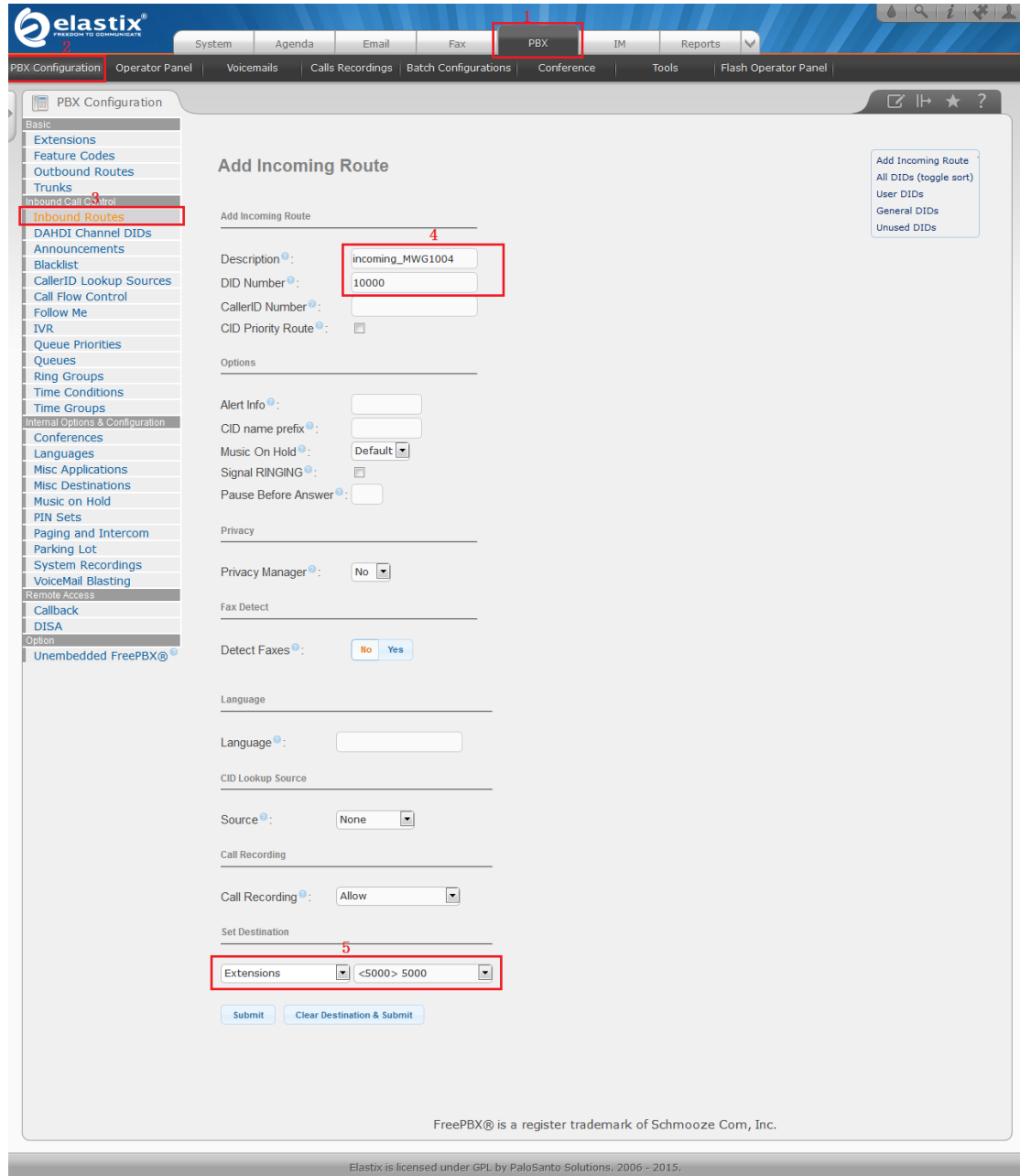
☐ VoIP Provider

☐ IP Group

Save **Resetting** **Back**

4.2 Create an Inbound Route on Elastix

Figure 4-2-1



Add Incoming Route

Add Incoming Route

Description: incoming_MWG1004

DID Number: 10000

CallerID Number:

CID Priority Route:

Options

Alert Info:

CID name prefix:

Music On Hold: Default

Signal RINGING:

Pause Before Answer:

Privacy

Privacy Manager: No

Fax Detect

Detect Faxes: No Yes

Language

Language:

CID Lookup Source

Source: None

Call Recording

Call Recording: Allow

Set Destination

Extensions: <5000> 5000

Submit Clear Destination & Submit

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Description: Incoming_MWG1004

Set Destination: Extensions. The call which DID is 10000 will reach the Extensions 5000

Now we can test incoming calls for Elastix. If you dial the GSM Port number on MWG1004, the call will be routed to the Extensions 5000 on Elastix.