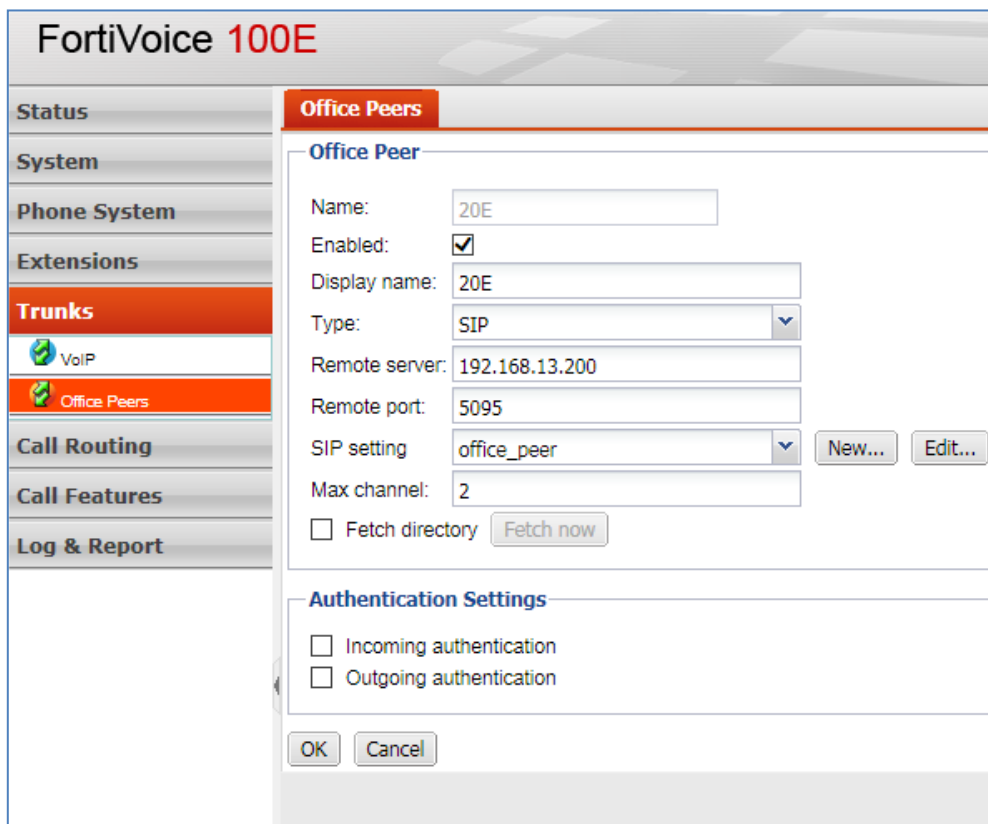


## **FortiVoice Enterprise setup process for connecting a FortiVoice 20E for analog line usage and line appearance**

In this example a FortiVoice 100E and a FortiVoice 20E2, both with firmware version 5.3, build288,160722 (5.3.1 GA).will be used.

The first step is to go to Trunks > Office Peers> and creating an office peer between both phone systems.

### **100E Peer Setup**



The screenshot shows the FortiVoice 100E configuration interface. The left sidebar contains a menu with the following items: Status, System, Phone System, Extensions, Trunks (highlighted), VoIP, Office Peers (highlighted), Call Routing, Call Features, and Log & Report. The main content area is titled "Office Peers" and contains the following fields and options:

- Office Peer** section:
  - Name: 20E
  - Enabled:
  - Display name: 20E
  - Type: SIP (dropdown menu)
  - Remote server: 192.168.13.200
  - Remote port: 5095
  - SIP setting: office\_peer (dropdown menu) with "New..." and "Edit..." buttons
  - Max channel: 2
  - Fetch directory with "Fetch now" button
- Authentication Settings** section:
  - Incoming authentication
  - Outgoing authentication

At the bottom of the form are "OK" and "Cancel" buttons.

The FortiVoice 20E has an IP address of 192.168.13.200 and uses the SIP port 5095.

### **20E Peer Setup**

The screenshot shows the FortiVoice 20E2 configuration interface. On the left is a navigation menu with the following items: Status, System, Phone System, Extensions, Trunks (highlighted in red), VoIP, Analog, Office Peers (highlighted in red), Call Routing, Call Features, and Log & Report. The main content area is titled 'Office Peers' and contains the following fields and options:

- Office Peer** section:
  - Name: 100E
  - Enabled:
  - Display name: 100E
  - Type: SIP (dropdown menu)
  - Remote server: 192.168.13.100
  - Remote port: 5080
  - SIP setting: office\_peer (dropdown menu)
  - Max channel: 2
  - Fetch directory
- Authentication Settings** section:
  - Incoming authentication
  - Outgoing authentication

Buttons for 'New...', 'Edit...', 'OK', and 'Cancel' are also visible.

The FortiVoice 100E has an IP address of 192.168.13.100 and uses the SIP port 5080.

Two SIP trunks have to be created on the FortiVoice 100E. In the setup enter the analog line 1 phone number in the 'Main number:' field, 1 trunk will be created for each line:

Repeat the process for the second trunk but make sure to change the 'Main number:' field to match the phone number for the analog line 2 on the FortiVoice 20E.

Note that the process can be done for all lines if a 4 analog line FortiVoice 20E series is being used. These trunks are needed for the line appearance only.

<input checked="" type="checkbox"/>	20E_Line1	192.168.13.200	5095	<a href="#">sip_setting_default</a>	In service
<input checked="" type="checkbox"/>	20E_Line2	192.168.13.200	5095	<a href="#">sip_setting_default</a>	In service

Once all the trunks have been created use the programmable keys on any extension and program for line appearance.

**Set Programmable Phone Key**

Number of FF-70e modules attached to this phone:  ▼

**Base** | Module1 | Module2

Option	Function	Resource	Label
1	Reserved	Reserved	Reserved
2	None ▼	-	
3	Line appearance ▼	20E_Line1 (1) ▼	Line1
4	Line appearance ▼	20E_Line2 (1) ▼	Line2
5	--User Assigned-- ▼	-	

The Inbound and Outbound rules on the FortiVoice 100E should now be set.

Go to Call Routing > Inbound and select 'New...' from the menu bar.

Create a routing rule as illustrated below:

**Status** | **Inbound** | DID Mapping

Name:

Enabled:

**From Trunk**

Available : (10/11) | Selected : (1/11)

20E

20E\_Line2

FVC\_D

Forticall\_Anbell

Forticall\_Mike

Grandstream1

Grandstream2\_line1

Grandstream2\_line2

Grandstream2\_line3

Grandstream2\_line4

->

<-

20E\_Line1

Search:

**Dialed Number Match**

New... | Delete |

Pattern String
6137771111

**Caller ID Match**

In the bottom portion set the destination on the FortiVoice 20E for incoming calls from analog line 1.

**Caller ID Match**

New... | Edit... | Delete |

Caller ID pattern

**Caller ID Modification**

Apply modification profile: --None-- New... Edit...

**Call Handling**

Action type: Endpoint action

**Action**

New... | Edit... | Move | Delete |

Schedule	Action	Target
any_time	Dial extension	7705

OK Cancel

Create a second Inbound rule for the other lines. Make sure to set the 'Dialed Number Match' to the line 2 phone number etc.

Next, go to Call Routing > Outbound and select 'New...' from the menu bar.

A unique pattern is required for each line as shown in the following example:

<input checked="" type="checkbox"/>	20E_Line1	14X.;	any_time : 20E
<input checked="" type="checkbox"/>	20E_Line2	15X.;	any_time : 20E

Create a routing rule as shown below:

**Status**

**System**

**Phone System**

**Extensions**

**Trunks**

**Call Routing**

Inbound

**Outbound**

**Call Features**

**Log & Report**

**Outbound**

Name: 20E\_Line1

Enabled:

Emergency call:

**Dialed Number Match**

New... | Edit... | Delete |

Match Pattern	Strip	Prefix	Postfix
14X.	2		

**Caller ID Match**

**Call Handling**

New... | Edit... | Move | Delete |

Schedule	Trunk	Caller ID Manipul...	Warning Message	Account Code
any_time	20E	20E_Line1	-	-

OK Cancel

The 'Trunk' being selected is the Office Peer trunk that was created earlier.

**Edit Record**

**Call Handling**

Schedule: any\_time [New... Edit...]

Action: Allow

Outgoing trunk: 20E (office-peer) [New... Edit...]

Caller ID modification: 20E\_Line1 [New... Edit...]

Warning message: --None-- [New... Edit...]

Delay: 0 (Seconds)

[OK] [Cancel]

For the 'Caller ID modification:' select the 'New...' button to create a new profile.

Each line will require its own unique profile reflecting the phone number of the line.

**FortiVoice**

**Caller ID Modification**

Name: 20E\_Line1

Match number: X.

**Number Modification**

Strip: 11

Truncate: 0

Prefix: 6137771111

Postfix:

Match caller ID name: \*

Map to new caller ID name: &

Advanced Setting

[OK] [Cancel]

## **FortiVoice 20E Inbound and Outbound Call Routing**

Starting with the Outbound rules go to Call Routing > Routing.

<b>Call Routing</b>			
<input checked="" type="checkbox"/>	Out_100E	X;	any_time : 100E
<input checked="" type="checkbox"/>	Out_Line_1	X;	any_time : line1
<input checked="" type="checkbox"/>	Out_Line_2	X;	any_time : line2

Create a new rule for calls from the FortiVoice 20E to go to the FortiVoice 100E.

**Outbound**

Name:

Enabled:

Emergency call:

**Dialed Number Match**

New... | Edit... | Delete |

Match Pattern	Strip	Prefix	Postfix
X.	0		

**Caller ID Match**

New... | Edit... | Delete |

Caller ID pattern
-------------------

**Call Handling**

New... | Edit... | Move | Delete |

Schedule	Trunk	Caller ID Manipul...	Warning Message	Account Code
any time	100E	-	-	-

OK Cancel

Select the FortiVoice 100E office peer trunk created earlier.

Next Outbound rule is for calls from the FortiVoice 100E to use the analog lines in the FortiVoice 20E.

**Outbound**

Name:

Enabled:

Emergency call:

---

**Dialed Number Match**

New... | Edit... | Delete |

Match Pattern	Strip	Prefix	Postfix
X.	0		

---

**Caller ID Match**

New... | Edit... | Delete |

Caller ID pattern

---

**Call Handling**

New... | Edit... | Move ▾ | Delete |

Schedule	Trunk	Caller ID Manipul...	Warning Message	Account Code
<u>any time</u>	line1	-	-	-

Create an entry similar to the above example for each line (The example given is for line1). The Trunk is the analog line itself and not the peer or a VoIP.

Next setting up the Inbound rules on the FortiVoice 20E.

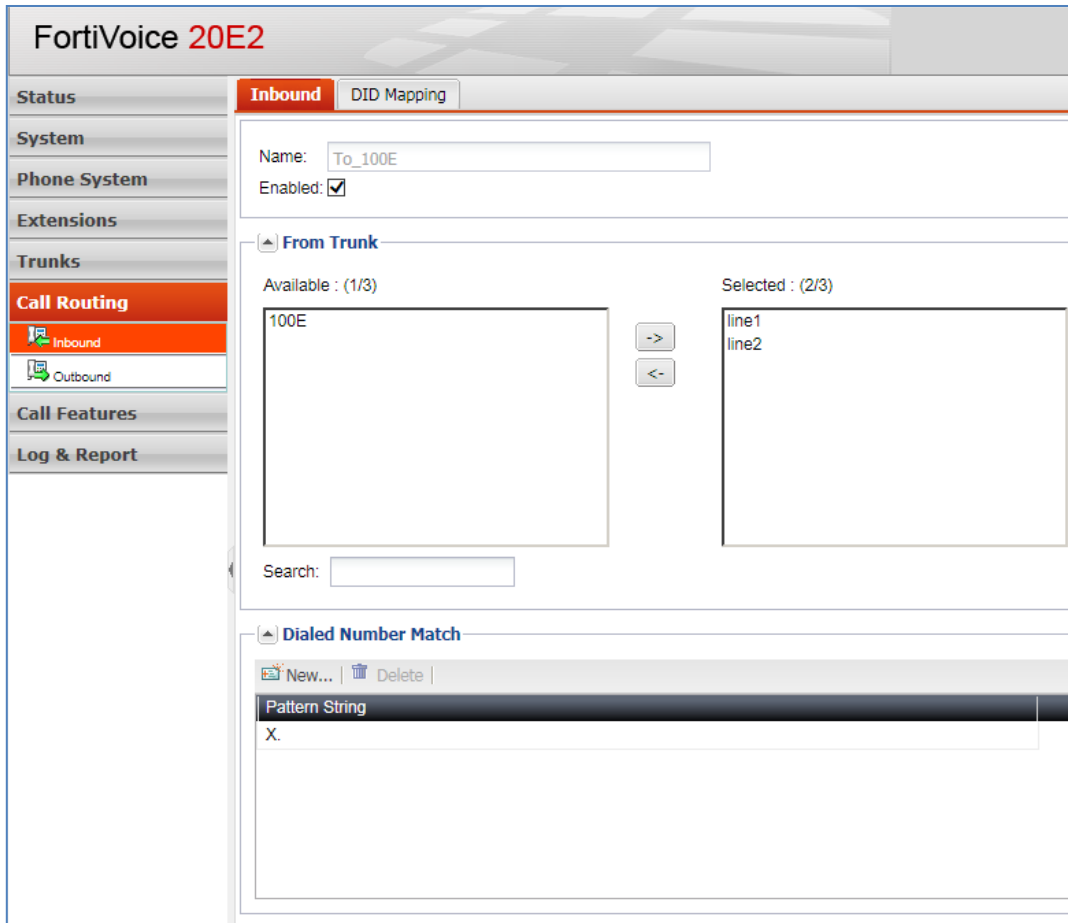
Go to Call Routing > Inbound and create three rules.

<input checked="" type="checkbox"/>	To_100E	Call Routing	Outbound rule:Out_100E	line1;line2	X.	
<input checked="" type="checkbox"/>	From_100E_Line1	Call Routing	Outbound rule:Out_Line_1	100E	X.	6137771111
<input checked="" type="checkbox"/>	From_100E_Line2	Call Routing	Outbound rule:Out_Line_2	100E	X.	6137772222

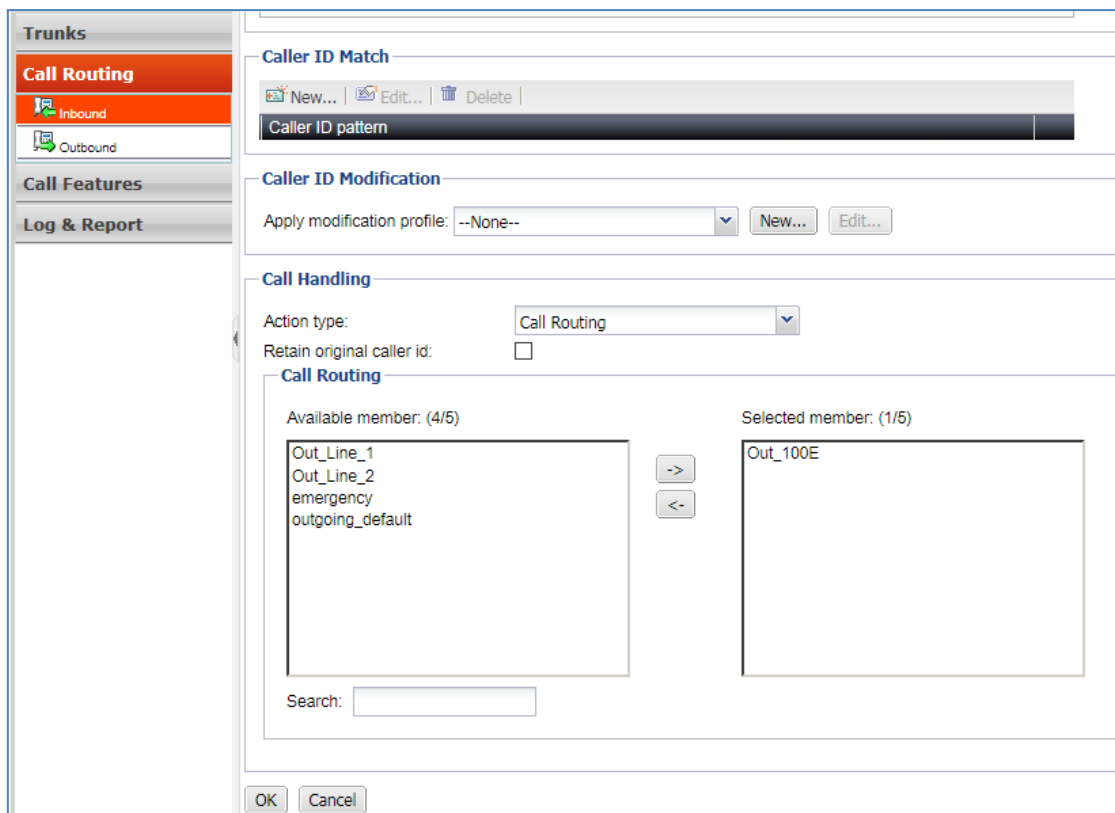
The first rule is for Inbound calls to the FortiVoice 20E analog lines to route to the FortiVoice 100E.

Select the lines for the incoming call and also set the 'Dialed Number Match'.





In the lower section, select the 'Action Type' to 'Call Routing' and the office pair to the FortiVoice 100E.



Next rules are for the Inbound calls from the FortiVoice 100E to use the FortiVoice 20E analog lines out.

The screenshot displays the FortiVoice 20E2 configuration page. The left sidebar contains a navigation menu with the following items: Status, System, Phone System, Extensions, Trunks, Call Routing (highlighted), Inbound, Outbound, Call Features, and Log & Report. The main content area is titled 'Inbound DID Mapping' and includes the following sections:

- Name:** From\_100E\_Line1
- Enabled:**
- From Trunk:** A section with two lists. The 'Available' list contains 'line1' and 'line2'. The 'Selected' list contains '100E'. Between the lists are two buttons: '->' and '<-'.
- Dialed Number Match:** A table with a header 'Pattern String' and one row containing 'X'.

In the lower section, select 'Action Type' to 'Call Routing' and the Outbound rule for Line 1.

In addition, set the 'Caller ID Match'.

**Caller ID Match**

New... | Edit... | Delete

Caller ID pattern  
6137771111

---

**Caller ID Modification**

Apply modification profile: Line1 [v] [New...] [Edit...]

---

**Call Handling**

Action type: Call Routing [v]

Retain original caller id:

**Call Routing**

Available member: (4/5)

Out\_100E  
Out\_Line\_2  
emergency  
outgoing\_default

Selected member: (1/5)

Out\_Line\_1

Search:

OK Cancel

The above step needs to be done for each line. The Call Routing is using the Outbound rule created earlier.

With the above steps completed, there will be line appearance for incoming calls to distinguish a call coming into the FortiVoice 20E via the analog lines.