



BD-E1-SIP Quickly Configuration

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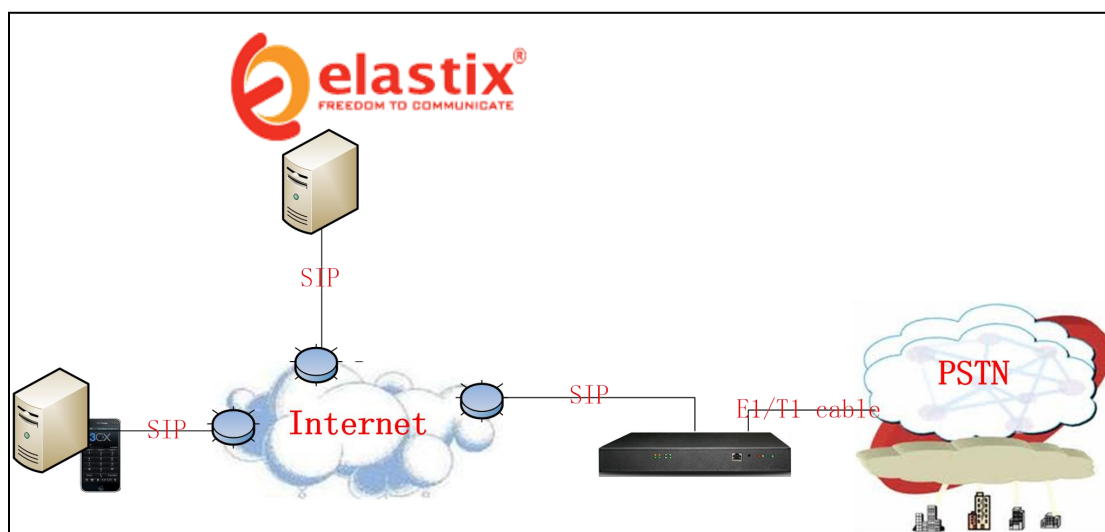
Website: <https://www.e1-converter.com>

<http://www.baudcom.com.cn>

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1. Overview and preparation



This is a typical network diagram of BD-E1-SIP working with SIP server . VoIP user can register to SIP server . If the user of VoIP want to make call to PSTN. The SIP server will send the calls to BD-E1-SIP via SIP Trunk, and the BD-E1-SIP send the calls to PSTN via PRI trunk.

In this document, I will teach you how to configure BD-E1-SIP as a Trunk from PSTN to IP.

Convention :

The IP of SIP server is 172.16.33.50

The SIP server connected with MTG via SIP trunk . No need registered . And all call go to BD-E1-SIP Trunk . The call from BD-E1-SIP will go to a extension.

The IP of BD-E1-SIP is 172.16.33.60

The phone numbers of E1 line is 075588886666 (you can have more phone number)

The test phone number of making call is 075566668888

2 Login the BD-E1-SIP

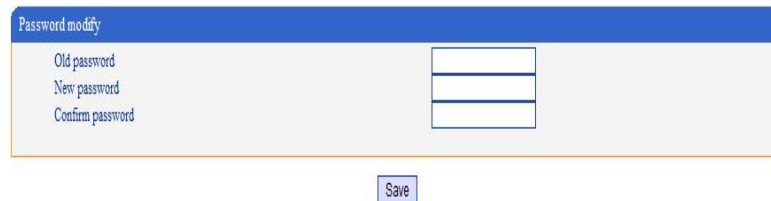
The BD-E1-SIP has two ethernet interface. FE0 is Service Ethernet Interface and FE1 is Management Ethernet Interface. The default IP of FE1 is [192.168.11.1](#). So Please connect FE1 to your local network. And make sure you can arrival the IP of 192.168.11.X.

Input the IP 192.168.11.1 in your browser. Login the MTG. It will request for Authentication.

The default user name and password is "admin/admin@123#".

The screenshot shows a web browser's authentication dialog box. The title bar says "Authentication Required". The main text reads: "A username and password are being requested by http://172.16.33.60. The site says: 'GoAhead'". There are two input fields: "User Name:" and "Password:". The "User Name:" field has a cursor in it. At the bottom right, there are two buttons: "Cancel" (with a red X icon) and "OK" (with a green checkmark icon).

To guarantee the system safety. When login for the first time, the system will prompt the user to modify the password. The interface is shown as below. please make sure do not forget it.

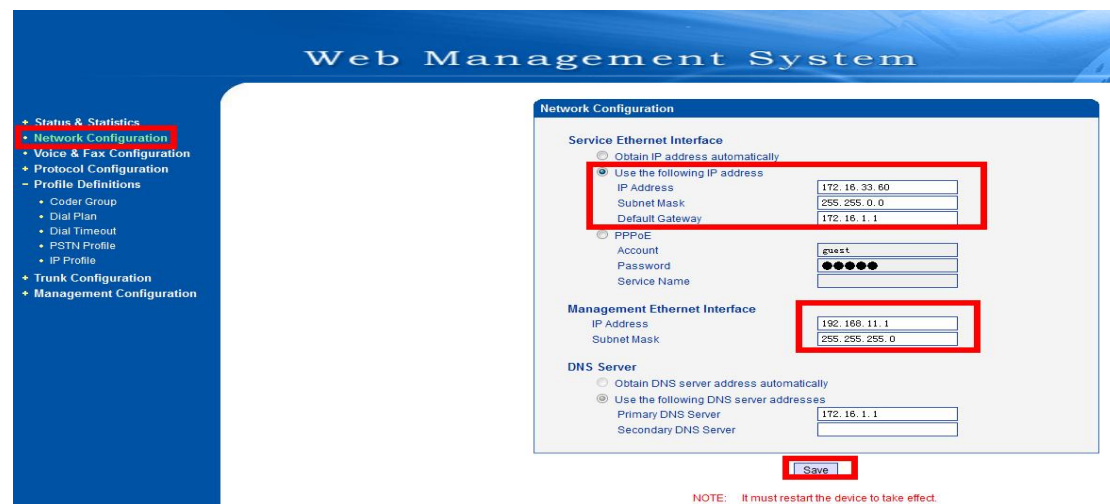


The 'Password modify' interface contains three input fields: 'Old password', 'New password', and 'Confirm password'. Below these fields is a 'Save' button.

After inputting the old password, input a new password and confirm it by inputting it again.

3 Network Configuration

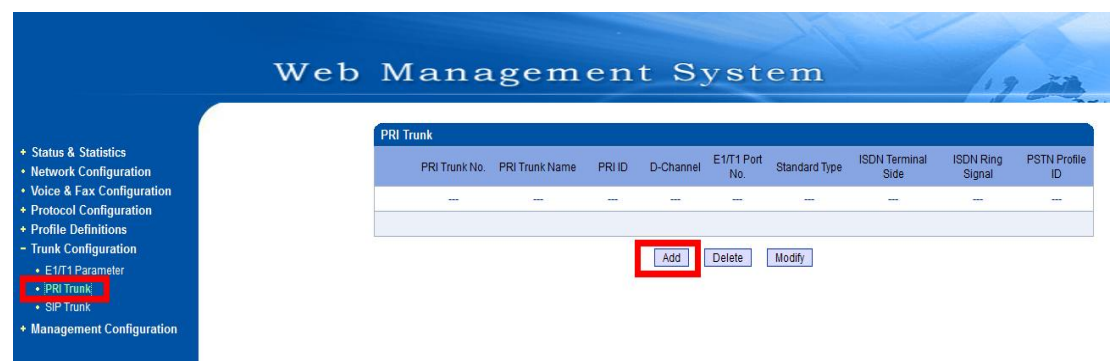
Config the IP address of Service Ethernet Interface. Here I set a static IP address. See as below. If you want connect BD-E1-SIP to internet, you can set a public networks IP or Obtain IP address automatically.



The 'Web Management System' interface shows the 'Network Configuration' section. The 'Service Ethernet Interface' is configured with a static IP address of 172.16.33.60, subnet mask 255.255.0.0, and default gateway 172.16.1.1. The 'Management Ethernet Interface' is configured with a static IP address of 192.168.11.1 and subnet mask 255.255.255.0. The 'DNS Server' is configured with a static primary DNS server of 172.16.1.1. A 'Save' button is at the bottom right. A note at the bottom states: 'NOTE: It must restart the device to take effect.'

3 PRI Trunk

See as below. Click [add](#).



The 'Web Management System' interface shows the 'PRI Trunk' section. It contains a table with the following columns: PRI Trunk No., PRI Trunk Name, PRI ID, D-Channel, E1/T1 Port No., Standard Type, ISDN Terminal Side, ISDN Ring Signal, and PSTN Profile ID. Below the table are 'Add', 'Delete', and 'Modify' buttons. The 'Add' button is highlighted with a red box.

Here I just add one PRI trunk. You can add more. Select [User Side](#) as the [ISDN Terminal Side](#).

If you can not make sure, you can consult with the SP(the Provider of PSTN)

Web Management System

- Status & Statistics
- Network Configuration
- Voice & Fax Configuration
- Protocol Configuration
- Profile Definitions
- Trunk Configuration
 - E1/T1 Parameter
 - PRI Trunk**
 - SIP Trunk
- Management Configuration

PRI Trunk Add
Select Trunk No. 0
PRI Trunk Name to-E1
PRI ID 0
Is D-Channel Yes
E1/T1 Port No. 0
Standard Type ISDN
ISDN Terminal Side **User Side**
ISDN Ring Signal ALERTING
PSTN Profile ID 0 <Default>
OK Reset Cancel

NOTES: 1. Trunk No. has been created, please select in the drop-down list.
2. Trunk No. is a shared data, therefore, PRI Trunk No. can't be the same as SS7 Trunk No.

4 SIP Trunk

See as below. Click [add](#).

Web Management System

- Status & Statistics
- Network Configuration
- Voice & Fax Configuration
- Protocol Configuration
- Profile Definitions
- Trunk Configuration
 - E1/T1 Parameter
 - PRI Trunk
 - SIP Trunk**
- Management Configuration

SIP Trunk

Trunk No.	Trunk Name	SIP-T Supported	Registration to the Remote Party	Call Mode	Detect Link Status	Enable SIP Trunk	Remote IP	Remote Port	Incoming Authentication Type	IP Profile ID
--	--	--	--	--	--	--	--	--	--	--

Total: 0entry 16entry/page 1/0page
Add Delete Modify

Select Registration to the Remote Party to Yes and Call Mode to Peer. Then fill the SIP user name and password. Then fill the remote IP and port. The default SIP port is 5060.

SIP Trunk Add

Trunk No.

Trunk Name

Registration to the Remote Party

Call Mode

SIP Username

SIP Password

Confirm SIP Password

Expire Time

IP Profile ID

Detect Link Status

Remote IP

Remote Port

Incoming SIP Authentication Type

IP to PSTN Limitation

PSTN to IP Limitation

IP to PSTN Time Control

Enable SIP Trunk

0

33.50

Yes

Access

3360_in

●●●●

●●●●

1800

0 <Default>

No

172.16.33.50

5060

IP Address

No

No

Disable

Yes

OK Reset Cancel

5. Check and Test

5.1 Check BD-E1-SIP Trunk Status

If you have done the steps above, Please Check the below status before you make a call.

In the PSTN Trunk status , make sure the Link Status is **Established**.

The screenshot shows the 'Web Management System' interface. On the left is a navigation menu with the following items: Status & Statistics, System Information, E1/T1 Status, PSTN Trunk Status (highlighted with a red box), IP Trunk Status, PRI Call Statistics, SIP Call Statistics, Network Configuration, Voice & Fax Configuration, Protocol Configuration, Profile Definitions, Trunk Configuration, and Management Configuration. The main content area displays the 'PRI Link Status' table.

PRI Trunk No.	Trunk Name	E1/T1 Port No.	Link Status
0	to-E1	0	Established

Below the table is a 'Refresh' button.

In the SIP trunk Status ,make sure Register Status is **Registered** and Link Status is **Established**.

The screenshot shows the 'Web Management System' interface. On the left is a navigation menu with the following items: Status & Statistics, System Information, E1/T1 Status, PSTN Trunk Status, IP Trunk Status (highlighted with a red box), PRI Call Statistics, SIP Call Statistics, Network Configuration, Voice & Fax Configuration, Protocol Configuration, Profile Definitions, Trunk Configuration, and Management Configuration. The main content area displays the 'SIP Trunk Status' table.

SIP Trunk No.	Username	Trunk Mode	Register Status	Link Status
0	3360	Access	Registered	Established

Below the table is a 'Refresh' button.

5.2 Make Call

You can make a call now. When the call is answered ,you can see as below.

The screenshot shows the 'Web Management System' interface. On the left is a navigation menu with 'Status & Statistics' expanded, showing 'E1/T1 Status' selected. The main content area displays 'E1/T1 Port Status' and 'E1/T1 Channel Status'.

E1/T1 Port Status

Port No.	Physical Status
0	Active-OK
1	Disable

NOTES: LOS Alarm (Red), RRA Alarm (Yellow), AIS Alarm (Blue), ISDN/SS7 Signal Alarm (Orange), Active-OK (Green), Disable (Grey).

E1/T1 Channel Status

Channel No.	Port 0	Port 1
0	Active-OK	Active-OK
1	Active-OK	Active-OK
2	Active-OK	Active-OK
3	Active-OK	Active-OK
4	Active-OK	Active-OK
5	Active-OK	Active-OK
6	Active-OK	Active-OK
7	Active-OK	Active-OK
8	Active-OK	Active-OK
9	Active-OK	Active-OK
10	Active-OK	Active-OK
11	Active-OK	Active-OK
12	Active-OK	Active-OK
13	Active-OK	Active-OK
14	Active-OK	Active-OK
15	Active-OK	Active-OK
16	Active-OK	Active-OK
17	Active-OK	Active-OK
18	Active-OK	Active-OK
19	Active-OK	Active-OK
20	Active-OK	Active-OK
21	Active-OK	Active-OK
22	Active-OK	Active-OK
23	Active-OK	Active-OK
24	Active-OK	Active-OK
25	Active-OK	Active-OK
26	Active-OK	Active-OK
27	Active-OK	Active-OK
28	Active-OK	Active-OK
29	Active-OK	Active-OK
30	Active-OK	Active-OK
31	Active-OK	Active-OK

Legend:

Status	Non Voice	Idle	Signal	Busy	Fault	Disable
Color	Black	Blue	Green	Red	Yellow	Grey
Totalize	1	29	1	1	0	32

You can also check the [PRI Call Statistics](#) and [SIP Call Statistics](#).

The screenshot shows the 'Web Management System' interface. On the left is a navigation menu with 'Status & Statistics' expanded, showing 'PRI Call Statistics' selected. The main content area displays 'PRI Trunk Call Statistics'.

PRI Trunk No.	Trunk Name	Current Calls	Accumulated Calls	Percent of Call Completed
0	to-E1	1	9	78%

Refresh

The [PRI Call Statistics](#) can show Current Calls、Accumulated Calls、Percent of Call Completed

The screenshot shows the 'Web Management System' interface. On the left is a navigation menu with 'Status & Statistics' expanded, showing 'SIP Call Statistics' selected. The main content area displays 'SIP Trunk Call Statistics'.

SIP Trunk No.	Trunk Name	Current Calls
0	33.50	1

Refresh

The [SIP Call Statistics](#) just show Current Calls.

You can also check the Elastix when the call is answered. As show in the below, "A" and "C" mean the channel is being used, If the call end, the color will turn green ; "B" and "D" show the call duration.