



BD-E1-SIP Quickly Configuration

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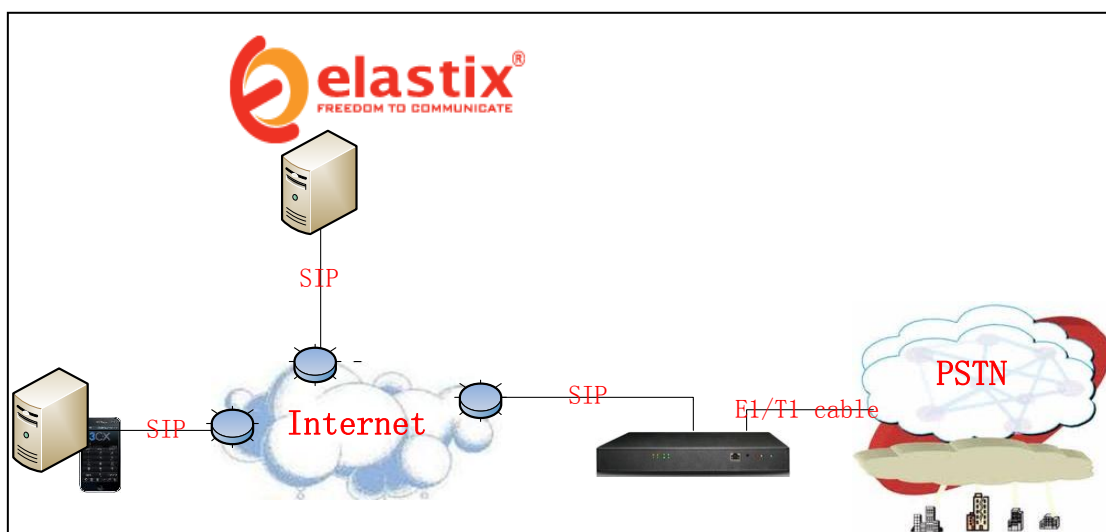
Website: <https://www.e1-converter.com>

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

Contents

1. Overview and preparation	3
2 Login the BD-E1-SIP.....	3
3 Network Configuration	4
3 PRI Trunk.....	4
4 SIP Trunk	5
5. Check and Test	6
5.1 Check BD-E1-SIP Trunk Status	6
5.2 Make Call.....	7

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 configurate 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".

The screenshot shows a web browser's authentication dialog box. The title bar reads 'Authentication Required'. The main text says: '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.

Password modify
 Old password:
 New password:
 Confirm password:
 Save

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.

Web Management System
 Network Configuration
 Service Ethernet Interface
 Obtain IP address automatically
 Use the following IP address
 IP Address: 172.16.33.60
 Subnet Mask: 255.255.0.0
 Default Gateway: 172.16.1.1
 PPPoE
 Account: guest
 Password:
 Service Name:
 Management Ethernet Interface
 IP Address: 192.168.11.1
 Subnet Mask: 255.255.255.0
 DNS Server
 Obtain DNS server address automatically
 Use the following DNS server addresses
 Primary DNS Server: 172.16.1.1
 Secondary DNS Server:
 Save
 NOTE: It must restart the device to take effect.

3 PRI Trunk

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

Web Management System
 PRI Trunk

PRI Trunk No.	PRI Trunk Name	PRI ID	D-Channel	E1/T1 Port No.	Standard Type	ISDN Terminal Side	ISDN Ring Signal	PSTN Profile ID
---	---	---	---	---	---	---	---	---

 Add Delete Modify

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

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

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. 0
 Trunk Name 33.50
 Registration to the Remote Party Yes
 Call Mode Access
 SIP Username 3360_in
 SIP Password ●●●●
 Confirm SIP Password ●●●●
 Expire Time 1800
 IP Profile ID 0 <Default>
 Detect Link Status No
 Remote IP 172.16.33.50
 Remote Port 5060
 Incoming SIP Authentication Type IP Address
 IP to PSTN Limitation No
 PSTN to IP Limitation No
 IP to PSTN Time Control Disable
 Enable SIP Trunk Yes

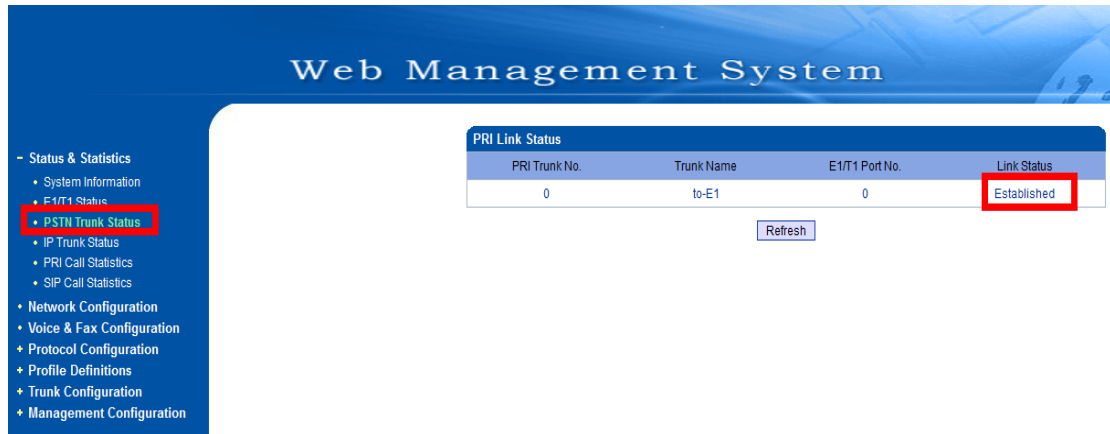
OK Reset Cancel

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 displays the 'Web Management System' interface. On the left, a navigation menu is visible with 'PSTN Trunk Status' highlighted in red. The main content area shows a table titled 'PRI Link Status' with the following data:

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

A 'Refresh' button is located below the table.

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



The screenshot displays the 'Web Management System' interface. On the left, a navigation menu is visible with 'IP Trunk Status' highlighted in red. The main content area shows a table titled 'SIP Trunk Status' with the following data:

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

A 'Refresh' button is located below the table.

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 to 'E1/T1 Status'. The main content area displays 'E1/T1 Port Status' and 'E1/T1 Channel Status'. In the 'E1/T1 Port Status' section, a green square icon indicates the physical status of Port 0. Below it, a legend defines colors: LOS Alarm (red), RRA Alarm (yellow), AIS Alarm (blue), ISDN/SS7 Signal Alarm (orange), Active-OK (green), and Disable (grey). The 'E1/T1 Channel Status' section shows a grid of 32 channels for Port 0 and Port 1. Channel 11 is highlighted in green, indicating it is active. A summary table at the bottom shows the following data:

Status	Non Voice	Idle	Signal	Busy	Fault	Disable
Color	Black	Cyan	Blue	Green	Red	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 with 'PRI Call Statistics' selected in the navigation menu. The main content area displays a table for 'PRI Trunk Call Statistics' with the following data:

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

A 'Refresh' button is located below the table.

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

The screenshot shows the 'Web Management System' interface with 'SIP Call Statistics' selected in the navigation menu. The main content area displays a table for 'SIP Trunk Call Statistics' with the following data:

SIP Trunk No.	Trunk Name	Current Calls
0	33.50	1

A 'Refresh' button is located below the table.

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.