

# Running a Syslog Server on the SPA9000

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## Contents

[Introduction](#)[How do I run a syslog on an SPA9000?](#)[Related Information](#)

## Introduction

This article is one in a series to assist in the setup, troubleshooting, and maintenance of Cisco Small Business products.

### Q. How do I run a syslog on an SPA9000?

A.

#### *Step 1:*

In order to configure the *SPA* to capture *SIP* messages, complete these steps:

*Linksys partners* can download a *syslog server tool* (slogsrv.exe) from the *Linksys Partner Connection*

In order to get to the *VARs*:

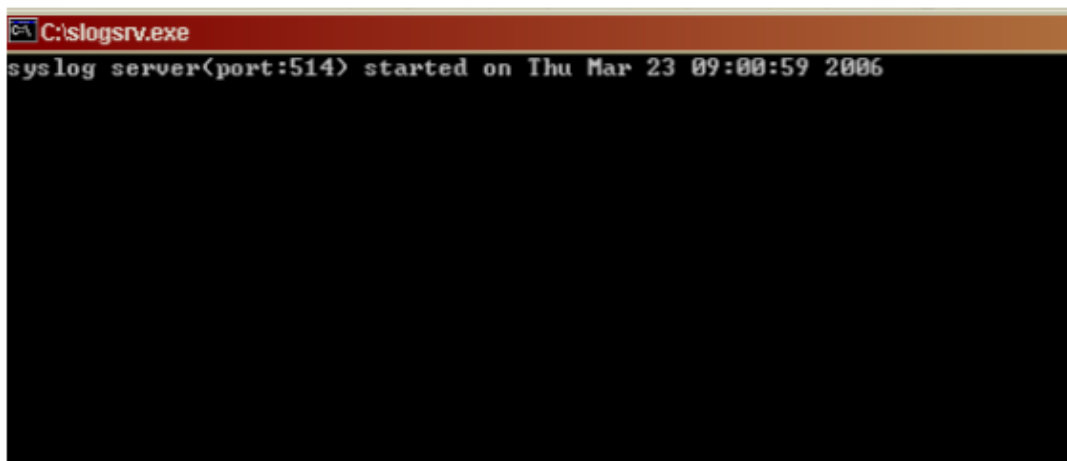
- i. Refer to the *Product Utilities*.
- ii. Click the Linksys *Voice System*.
- iii. Click on the *SPA Utilities*.
- iv. Finally, click on the *Syslog Server* for SPA Devices.

In order to get to the *SPs*:

- i. Refer to the *Technical Tools*.
- ii. Click on the *SPA Utilities*.
- iii. Finally, click on the *Syslog Server* for SPA Devices.

#### *Step 2:*

Save the file on your computer then unzip it. Double-click the executable file and screen similar to DOS command window will appear. Leave this window open then proceed to the next step.



**Step 3:**

Access the SPA9000's web-based setup page. For instructions, click [here](#).

**Step 4:**

Click **Admin Login** and **advanced** then click **System**. Under **Miscellaneous Settings**, fill-up these fields:

- ◆ **Syslog Server:** (IP address of the computer running the syslog application)
- ◆ **Debug server:** (IP address of the computer running the syslog application)
- ◆ **Debug level:**3

The screenshot shows the Linksys Phone Adapter Configuration web interface. At the top, the Linksys logo is displayed with the text 'A Division of Cisco Systems, Inc.' and 'Linksys Phone Adapter Configuration'. Below the logo, there are navigation tabs: 'Router', 'Voice', and 'PBX Status'. Under the 'Voice' tab, there are sub-tabs: 'Info', 'System', 'SIP', 'Regional', 'FXS 1', 'FXS 2', 'Line 1', 'Line 2', 'Line 3', and 'Line 4'. The 'System' tab is selected. The main content area is divided into sections: 'System Configuration' (with a 'User Password:' field), 'Miscellaneous Settings' (with 'Syslog Server:' and 'Debug Server:' input fields), and 'Debug Level:' (with a dropdown menu set to '3'). Three yellow callout boxes with arrows point to the 'Syslog Server' and 'Debug Server' fields, and the 'Debug Level' dropdown. The first callout says 'Enter the IP address of the computer running the syslog application.' The second callout says 'Enter the IP address of the computer running the syslog application.' The third callout says 'Select 3.'

**Step 5:**

Then click **Line 1** or **Line 2** (depending which line you are using) and under **Sip Debug Option** select **full**.

Click **Line 1** or **Line 2**.

Router	<b>Voice</b>										
Info	System	SIP	Provisioning	Regional	FXS 1	FXS 2	<b>Line 1</b>	Line 2	Line 3	Line 4	<a href="#">PBX Status</a>
											<a href="#">User Login</a>
Line Enable:											yes ▼
<b>Network Settings</b>											
SIP ToS/DiffServ Value:			0x68		SIP CoS Value:			3		[0-7]	
<b>SIP Settings</b>											
SIP Port:			5060		SIP 100REL Enable:			no ▼			
Auth Resync-Reboot:			yes ▼		SIP Proxy-Require:						
SIP Remote-Party-ID:			yes ▼		SIP Debug Option:			full			
Restrict Source IP:			no ▼		Referor Bye Delay:			4			
Refer Target Bye Delay:			0		Referee Bye Delay:			0			
Refer-To Target Contact:			no ▼								

**Step 6:**

Click .

**Step 7:**

You should now see traffic.

```
C:\DOCUME~1\techgirl\LOCALS~1\Temp\Temporary Directory 2 for slogsrv.zip\slogsrv.exe
Jan 1 12:00:02 0014BF4D67C7 Profile Rule D:
Jan 1 12:00:02 0014BF4D67C7 Line 1 Preferred Codec:G711u
Jan 1 12:00:02 0014BF4D67C7 Line 1 Preferred Codec:G711u
Jan 1 12:00:02 0014BF4D67C7 Line 2 Preferred Codec:G711u
Jan 1 12:00:02 0014BF4D67C7 Line 2 Preferred Codec:G711u
Jan 1 12:00:02 0014BF4D67C7 RTP Packet Size:0.030
Jan 1 12:00:02 0014BF4D67C7 RTP Packet Size:0.030
Jan 1 12:00:02 0014BF4D67C7 IDBGf01:8
Jan 1 12:00:02 0014BF4D67C7 IDBGf11:8
Jan 1 12:00:02 0014BF4D67C7 [0]Reg Addr Change(0) 0:0->a630089:5060
Jan 1 12:00:02 0014BF4D67C7 [0]Reg Addr Change(0) 0:0->a630089:5060
Jan 1 12:00:02 0014BF4D67C7 [0:5060]->10.99.0.137:5060
Jan 1 12:00:02 0014BF4D67C7 [0:5060]->10.99.0.137:5060
Jan 1 12:00:02 0014BF4D67C7 REGISTER sip:10.99.0.137 SIP/2.0
Via: SIP/2.0/UDP 10.99.0.133:5060;branch=z9hG4bK-4d0b36e9
From: <sip:5551111@10.99.0.137>;tag=bc6af27df2901af200
To: <sip:5551111@10.99.0.137>
Call-ID: 4d40e7cb-260af5c2e10.99.0.133
CSeq: 59448 REGISTER
Max-Forwards: 70
Contact: <sip:5551111@10.99.0.133:5060>;expires=3600
User-Agent: Linksys/PAP2-3.1.9(LSc)
Content-Length: 0
Allow: ACK, BYE, CANCEL, INFO, INVITE, NOTIFY, OPTIONS, REFER
Supported: x-sipura

Jan 1 12:00:02 0014BF4D67C7
Jan 1 12:00:02 0014BF4D67C7
Jan 1 12:00:02 0014BF4D67C7 [0:5060]<<10.99.0.137:5060
Jan 1 12:00:02 0014BF4D67C7 [0:5060]<<10.99.0.137:5060
Jan 1 12:00:02 0014BF4D67C7 SIP/2.0 100 Trying
Via: SIP/2.0/UDP 10.99.0.133:5060;branch=z9hG4bK-4d0b36e9
From: <sip:5551111@10.99.0.137>;tag=bc6af27df2901af200
To: <sip:5551111@10.99.0.137>
Call-ID: 4d40e7cb-260af5c2e10.99.0.133
CSeq: 59448 REGISTER
User-Agent: Asterisk PBX
Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY
Contact: <sip:5551111@10.99.0.137>
Content-Length: 0

Jan 1 12:00:02 0014BF4D67C7
Jan 1 12:00:02 0014BF4D67C7
```

**Step 8:**

Now to capture the error, keep the *syslog* running and just repeat the steps up to the point where you know the problem is occurring. When you are done capturing all the sip messages, close the window.

**Step 9:**

Go to the location where the syslog application is saved. There should be a file (notepad) containing the syslog messages you just ran. An example of a syslog application filename is *syslog514.log*.

## Related Information

- [Technical Support & Documentation – Cisco Systems](#)