OpenVox FB40/FD40 User Manual

I. The Basic Function of FB40/FD40

In most of the time, users need to reconnect the BRI/PRI line to a redundant server maintained by UPS when main PBX Server is power off. It may cause a little extra work for people who use simple and small PBX servers. But for those who run complex PBXs in server rooms, it becomes real problems.

How to eliminate this problem? The release of OpenVox FB40/FD40 failover box for BRI/PRI answers it. The FB40/FD40 can automatically switch the BRI/PRI line to the redundant server when the power of the main PBX server has been cut off and will automatically switch back to normal when the power is on again. In this way, no more worries about getting the BRI/PRI line connected to the redundant server when the main server is down.

II. Compatible Hardware with FB40/FD40

The FB40/FD40 is compatible with OpenVox BRI/PRI cards (B-series/D-series), Digium BRI/PRI cards, Sangoma BRI/PRI cards and other compatible BRI/PRI cards.

III. Installation of FB40/FD40

The device driver of FB40/FD40 has been integrated with many Linix distributions. Users can run the following command to see if the FB40/FD40 has been recognized or detected by the system. (Please connect the FB40/FD40 to the main server with attached USB line that comes together with the product. Note: Please make sure that all the lights are on by switching the on-of button when the FB40/FD40 is connected to the server.)

dmesg | grep FTDI

```
[root@bogon fail-over]# dmesg | grep FTDI
drivers/usb/serial/usb-serial.c: USB Serial support registered for FTDI USB Seri
al Device
ftdi_sio 4-1:1.0: FTDI USB Serial Device converter detected
usb 4-1: FTDI USB Serial Device converter now attached to ttyUSB0
drivers/usb/serial/ftdi_sio.c: v1.4.3:USB FTDI Serial Converters Driver
ftdi_sio ttyUSB0: FTDI USB Serial Device converter now disconnected from ttyUSB0
```

Here are a few steps to get it work:

A. User can simply connect the USB line to the main server, turn on the FB40/FD40 and connect the FB40/FD40 to the BRI/PRI line and the server (please refer to P1 below about the connection). Note: if the FB40/FD40 is turned off or without power, it will automatically connect the secondary server.

B. There is an alternative way to turn on or turn off the FB40/FD40 by using software. User can download it from www.openvox.com.cn , fine the product page and you can see the fail-over.tar.gz file in the bottom for download. This file can be placed in any route under linux. Unzip it by running the following command:

tar –xvzf fail-over.tar.g

```
[root@bogon src]# tar -xvzf fail-over.tar.gz
fail-over/
fail-over/Makefile
fail-over/fail-over.c
fail-over/README
fail-over/fail-over.h
fail-over/fail-over
```

Then: *cd fail-over*

make

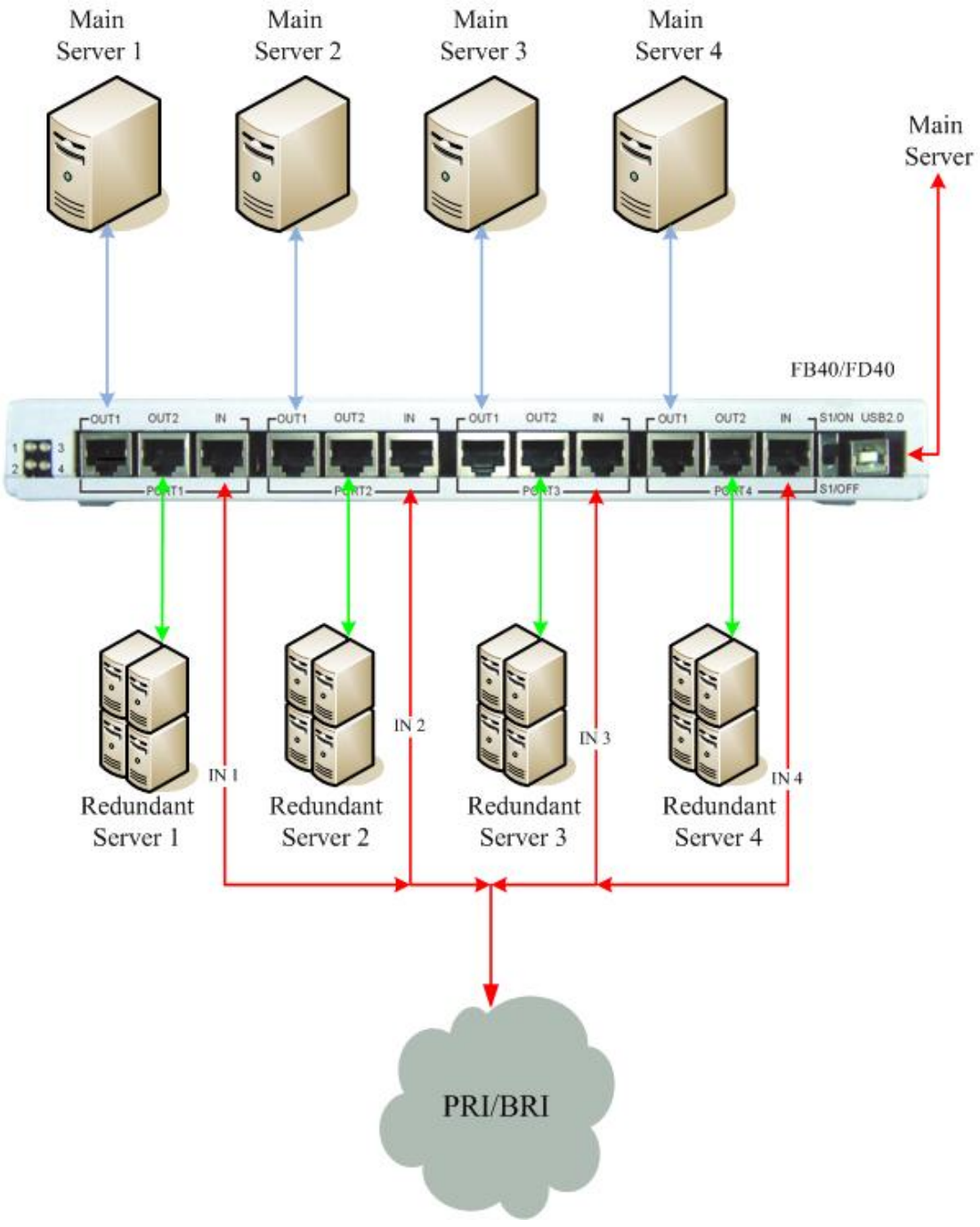
```
[root@bogon fail-over]# make
cc -Wall -g -o fail-over fail-over.c
```

After that, please execute *./fail-over*

```
[root@bogon fail-over]# ./fail-over
Connected to /dev/ttyUSB0 at 1200 8N1, modem status ignored, no hardware handsha
ke
1)      On
2)      Off
3)      Exit
```

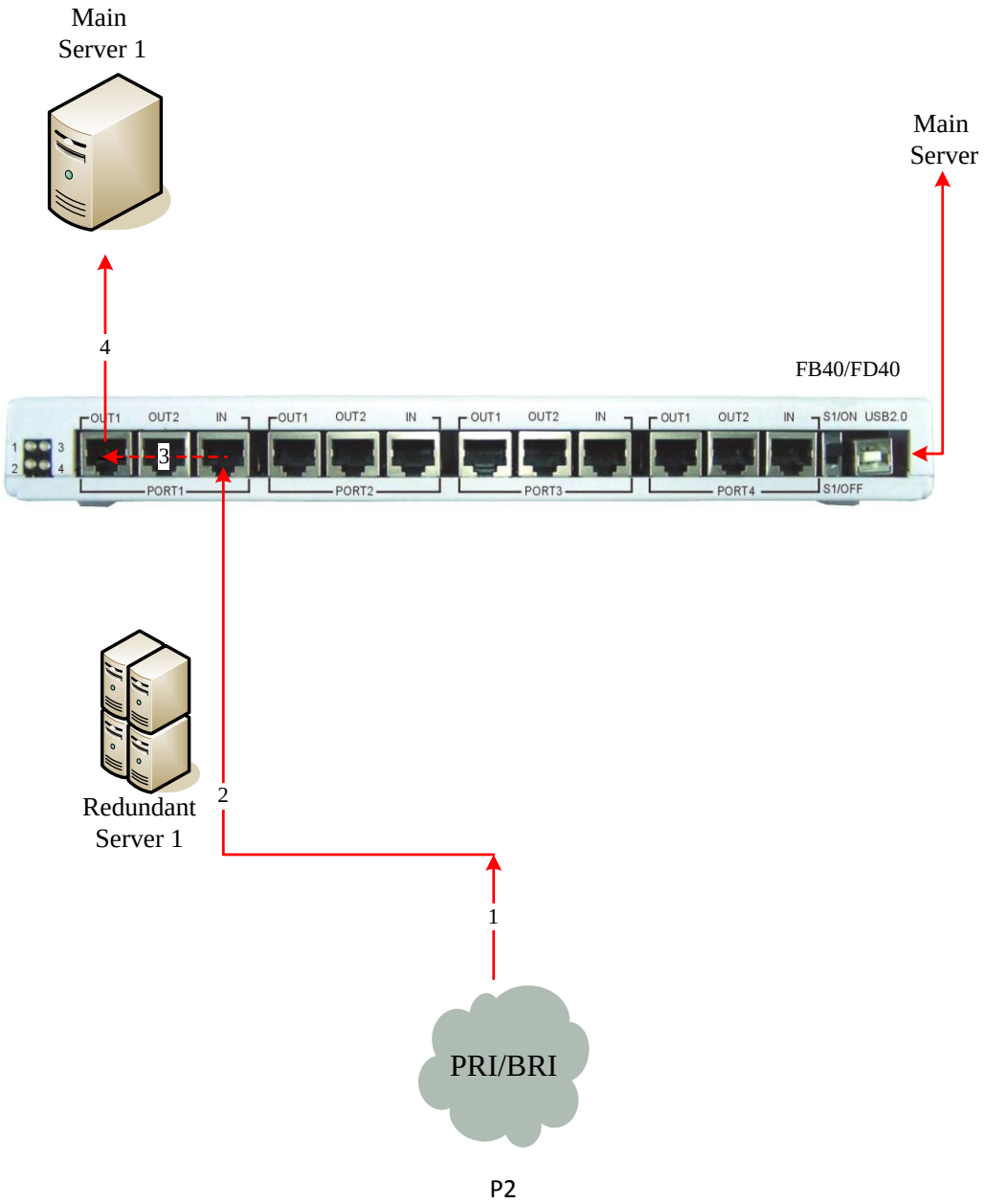
C. User can simply type 1 or 2 to turn on or turn off the FB40/FD40. Note: By using the software to operate the FB40/FD40, it will cause the difference between the real on-off status and the FB40/FD40 itself. User can adjust the on-off status by hand.

FB40/FD40 Connection Instruction:：



P1

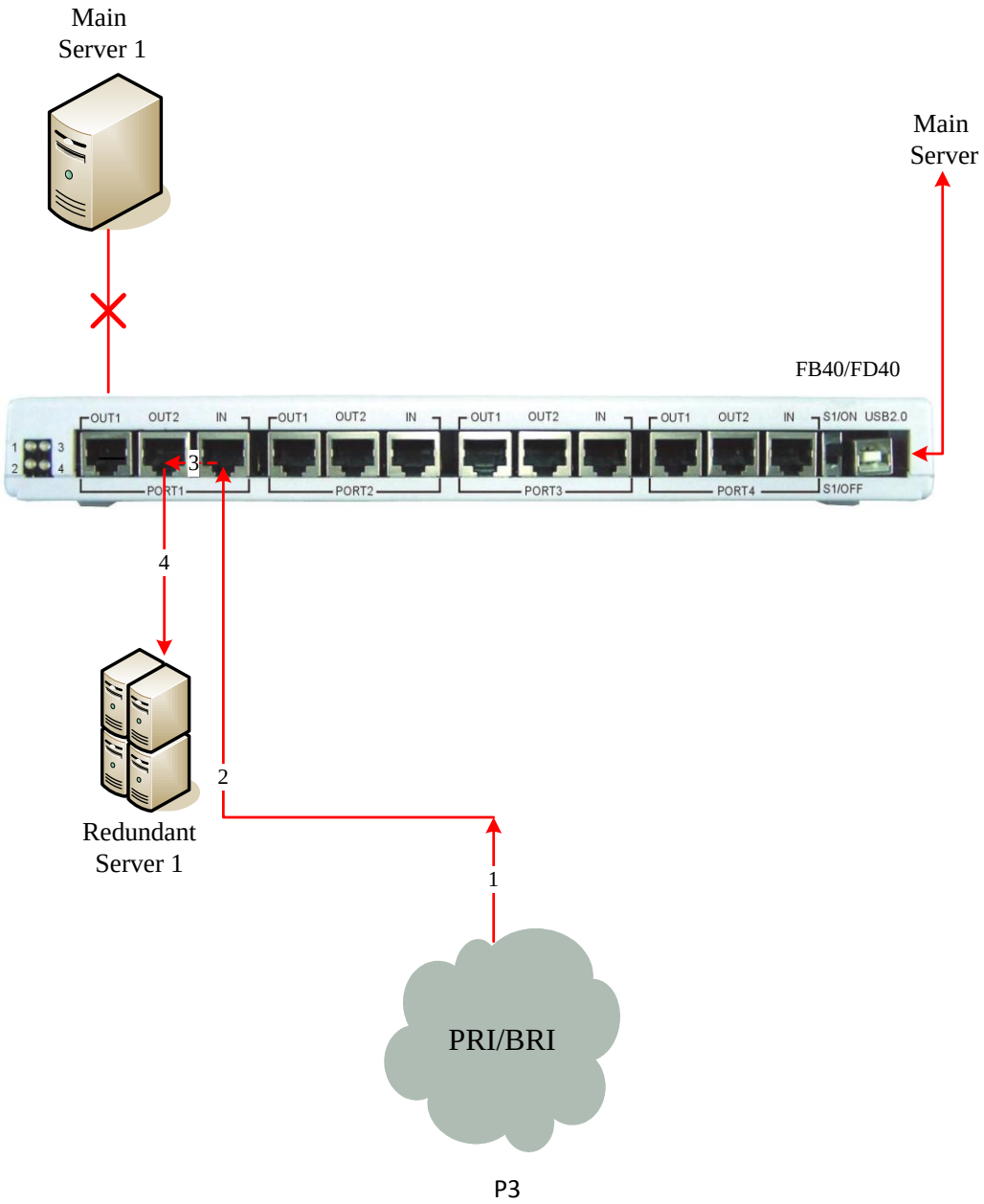
The following picture shows how the FB40/FD40 works when the PBX Server is ON. The BRI/PRI signal goes from: 1->2->3->4



P2

When dial out from internal, the BRI/PRI signal goes reverse.

When the main PBX Server stops working (poweroff), the BRI/PRI signal goes from 1->2->3->4:



The Dashed shows the auto-switch line goes in FB40/FD40.

Reference

www.openvox.com.cn

www.digium.com

www.asterisk.org

www.voip-info.org

www.asteriskguru.com