



# Vega EOL Linux

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## *EOL Setup Document*

The End Of Line (EOL) test software is a python application for Linux platform used by Sangoma appointed manufacturers to prove the quality of product after manufacturing and before shipment. This is a one-step process\* upon successful completion of which the Vega gateway under test can be shipped. The focus is on checking that the external interfaces operate as expected. During testing of those external interfaces as much coverage as possible of the main internal blocks is gained. For instance, during testing of the E1T1 interfaces not only are the physical connectors checked but also the DSP and cross-point switch functions.

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## 2 VEGA SETUP

### 2.1 VEGA 100G

#### 2.1.1 Setup Prerequisite

- Connect RS-232 (serial) cable from EOL PC to Vega 100G console port.
- Connect RJ-45 straight cable from Vega 100G LAN port1 to EOL Lancard-1.
- Connect RJ-45 straight cable from Vega 100G LAN port1 to EOL Lancard-2.
- Connect Vega E1/T1 ports to A104 E1/T1 ports using RJ-45/RJ48 crossover cable.
- Please follow 2.1.2 Test Schematic

**NOTE:** Cables are provided by Sangoma.

#### 2.1.2 Test Schematic

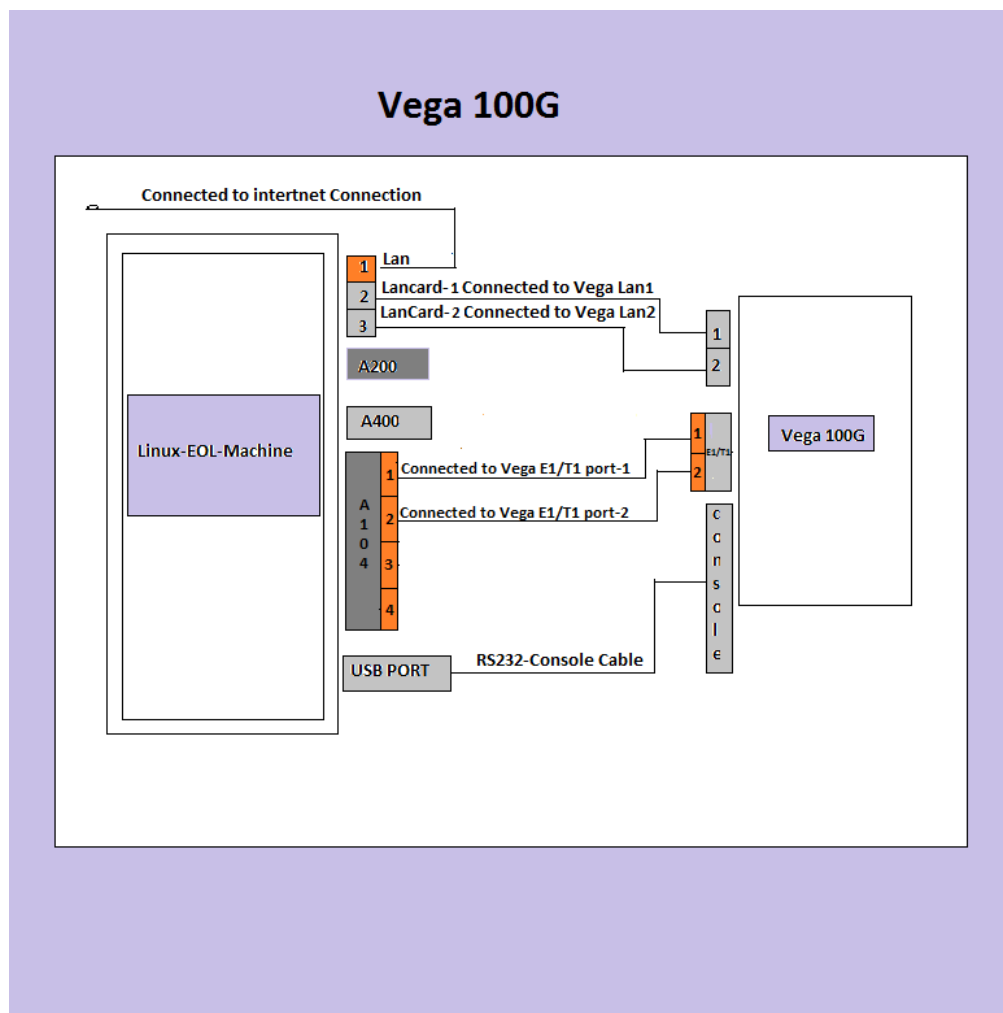


Figure 1 Vega 100G

## 2.2 VEGA 200G

### 2.2.1 Setup Prerequisite

- Connect RS-232 (serial) USB cable from EOL PC to Vega 200G console port.
- Connect RJ-45 straight cable from Vega 200G LAN-1 to EOL Lancard-1.
- Connect RJ-45 straight cable from Vega 200G LAN-2 to EOL Lancard-2.
- Connect Vega E1/T1 ports to A104 E1/T1 ports using RJ-45/RJ-48 crossover cable.
- Please follow 2.2.2 Test Schematic.

**NOTE:** Cables are provided by Sangoma.

### 2.2.2 Test Schematic

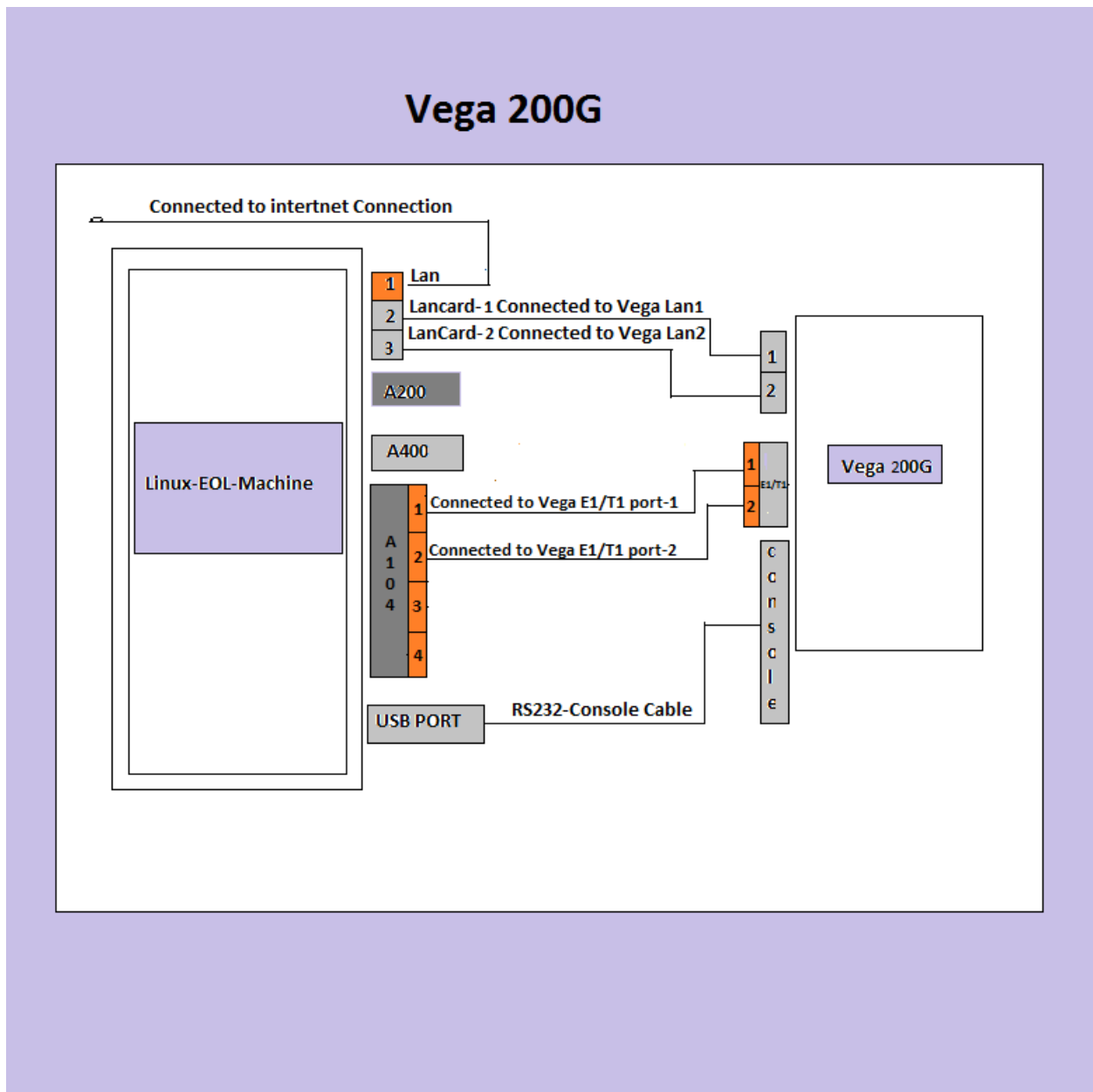


Figure 2 Vega 200G

## 2.3 VEGA 400G

### 2.3.1 Setup Prerequisite

- Connect RS-232 (serial) USB cable from EOL PC to Vega 400G console port.
- Connect RJ-45 straight cable from Vega 400G LAN-1 to EOL Lancard-1.
- Connect RJ-45 straight cable from Vega 400G LAN-2 to EOL Lancard-2.
- Connect Vega E1/T1 ports to A104 E1/T1 ports using RJ-48/RJ-45 crossover cable.
- Please follow 2.3.2 Test Schematic.

**NOTE:** Cables are provided by Sangoma

### 2.3.2 Test Schematic

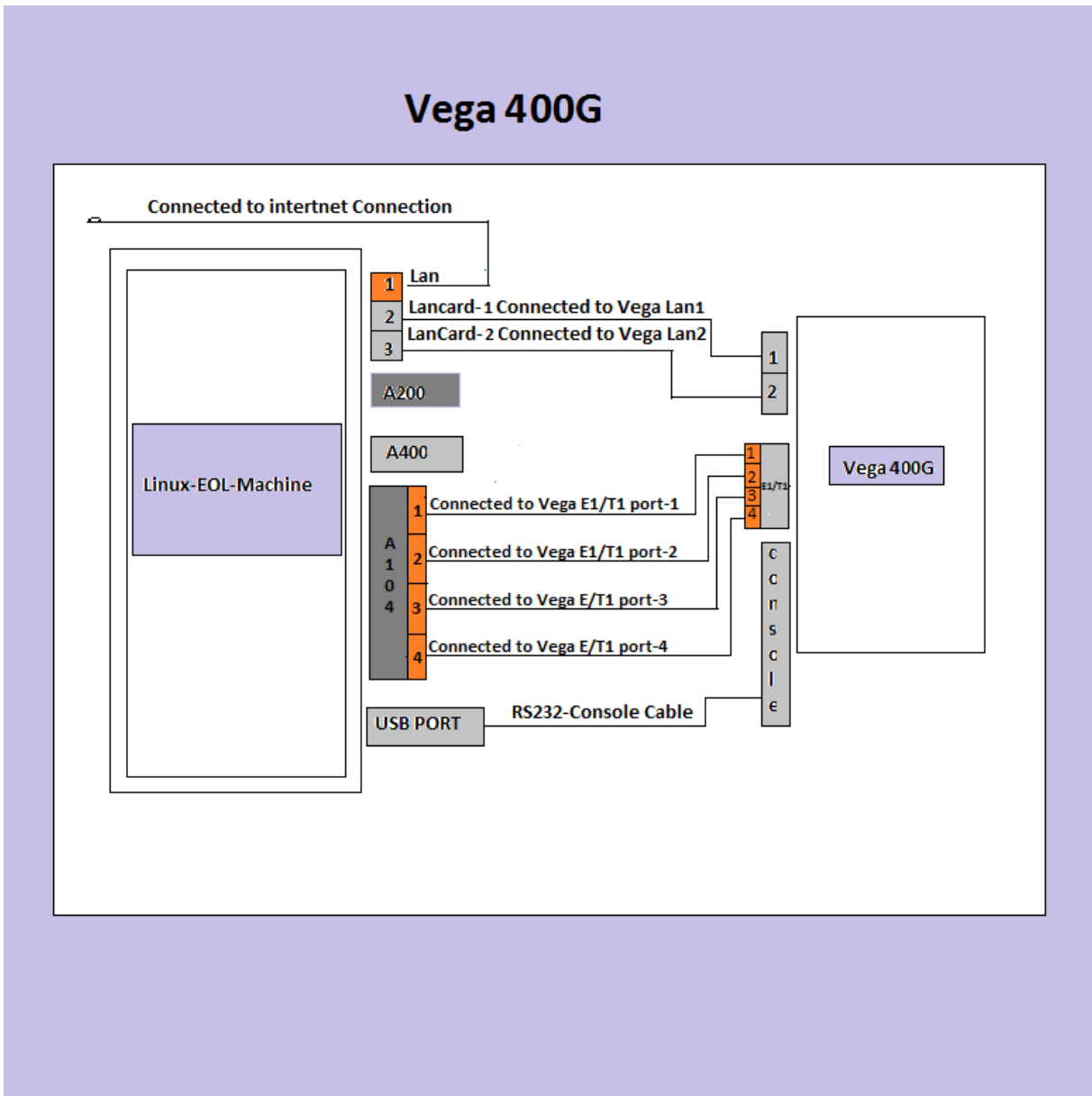


Figure 3 Vega 400G

## 2.4 VEGA 60G 2 BRI

### 2.4.1 Setup Prerequisite

- Connect RS-232 (serial) USB cable from EOL PC to Vega 60G BRI console port.
- Connect RJ-45 straight cable from Vega 60G LAN-1 to EOL Lancard-1.
- Connect Vega BRI ports to A500 point-point ports using RJ-48/RJ-45 crossover/straight cable.
- Please follow 2.4.2 Test Schematic.

**NOTE:** Cables are provided by Sangoma

### 2.4.2 Test Schematic

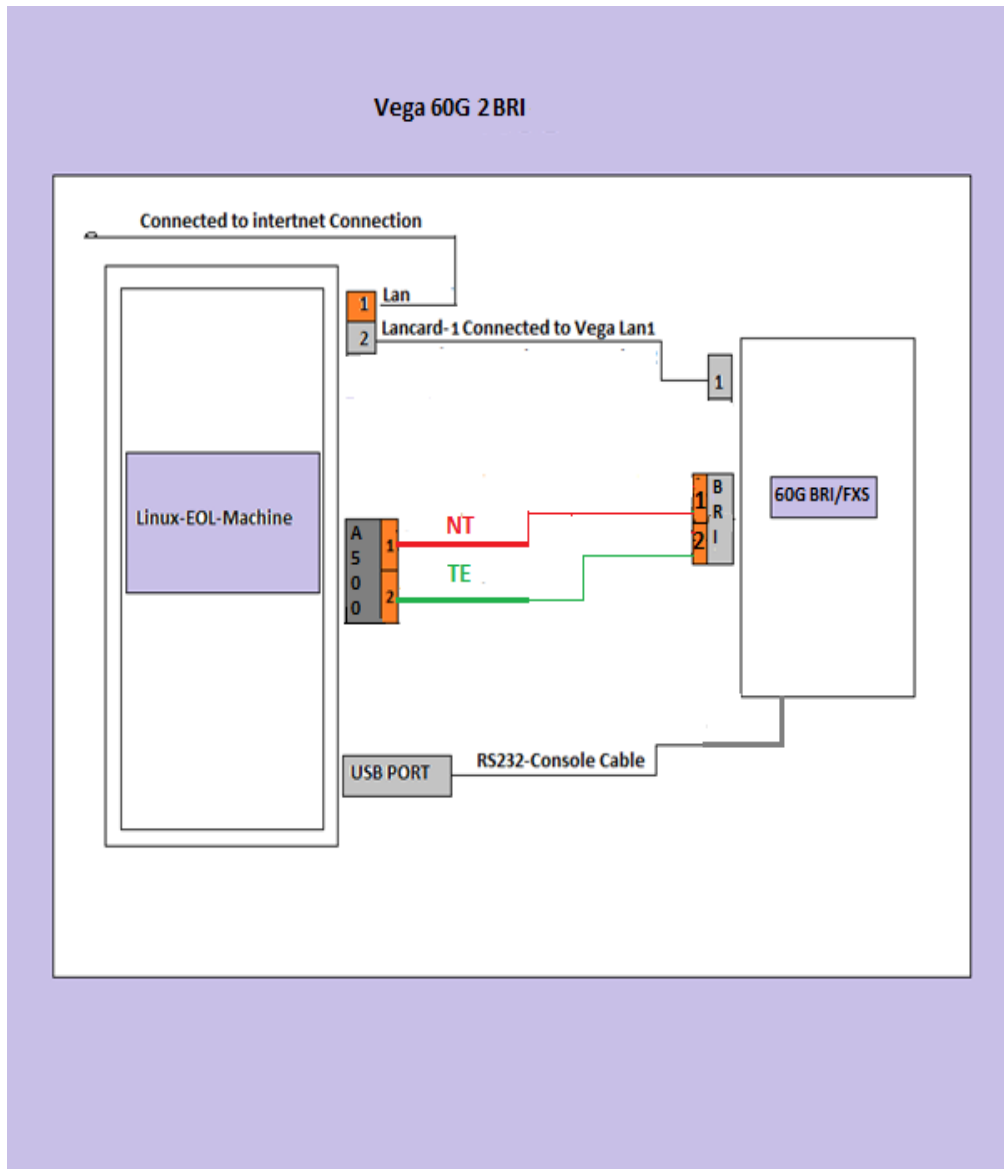


Figure 4 Vega 60G 2 BRI

## 2.5 VEGA 60G 4 BRI

### 2.5.1 Setup Prerequisite

- Connect RS-232 (serial) USB cable from EOL PC to Vega 60G BRI console port.
- Connect RJ-45 straight cable from Vega 60G LAN-1 to EOL Lancard-1.
- Connect Vega BRI ports to A500 point-point ports using RJ-48/RJ-45 crossover/straight cable.
- Please follow 2.5.2 Test Schematic.

**NOTE:** Cables are provided by Sangoma

### 2.5.2 Test Schematic

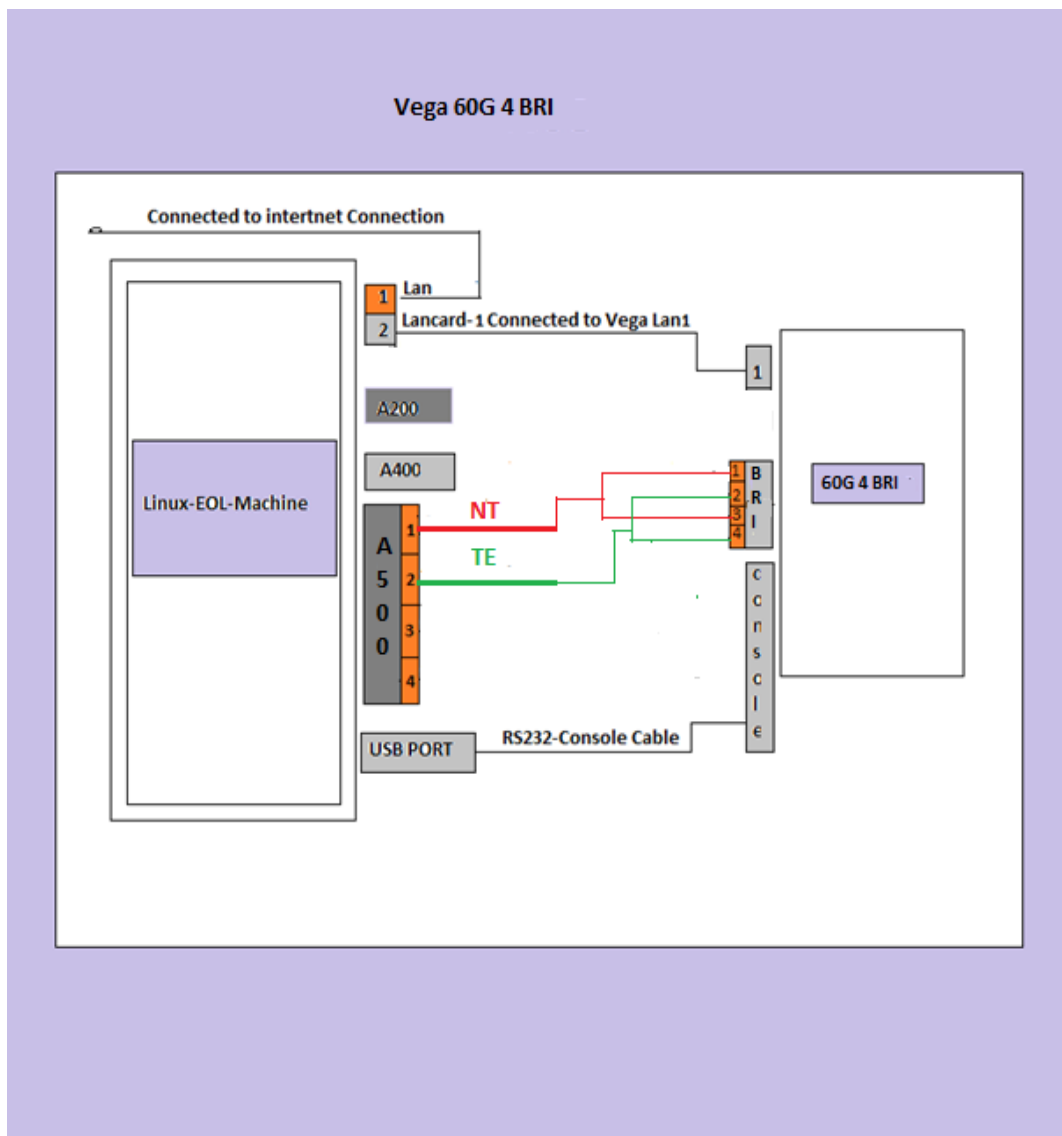


Figure 5 Vega60G 4 BRI

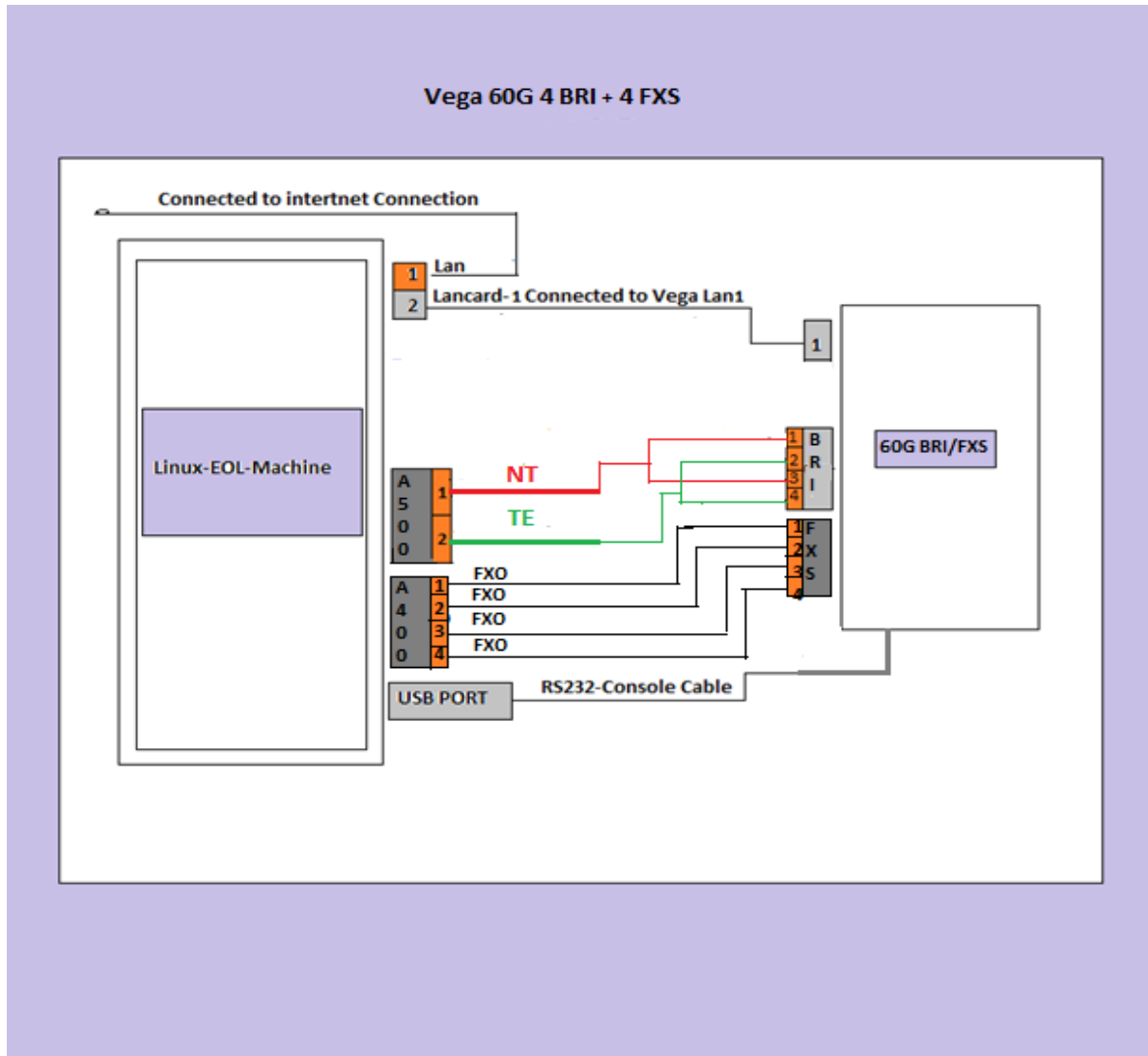
## 2.6 VEGA 60G 4BRI + 4FXS

### 2.6.1 Setup Prerequisite

- Connect RS-232 (serial) USB cable from EOL PC to Vega 60G BRI console port.
- Connect RJ-45 straight cable from Vega 60G LAN-1 to EOL Lancard-1.
- Connect Vega BRI ports to A500 point-point ports using RJ-48/RJ-45 crossover/straight cable.
- Connect Vega 4 FXS ports to A400 4 FXO ports.
- Please follow 2.6.2 Test Schematic.

**NOTE:** Cables are provided by Sangoma

### 2.6.2 Test Schematic



**Figure 6 Vega60G 4BRI + 4FXS**

## 2.7 VEGA 60G/50 EUROPA 4FXS + 2 FXO

### 2.7.1 Setup Prerequisite

- Connect RS-232 (serial) USB cable from EOL PC to Vega 50 console port.
- Connect RJ-45 straight cable from Vega 50 LAN-1 to EOL Lancard-1.
- Connect RJ-45 straight cable from Vega 50 LAN-2 to EOL Lancard-2.
- Connect Vega FXS ports to A400 FXO ports using RJ-11 cable.
- Connect Vega FXO ports to A200 FXS ports using RJ-11 cable.
- Please follow 2.4.2 Test Schematic.

**NOTE:** Cables are provided by Sangoma

### 2.7.2 Test Schematic

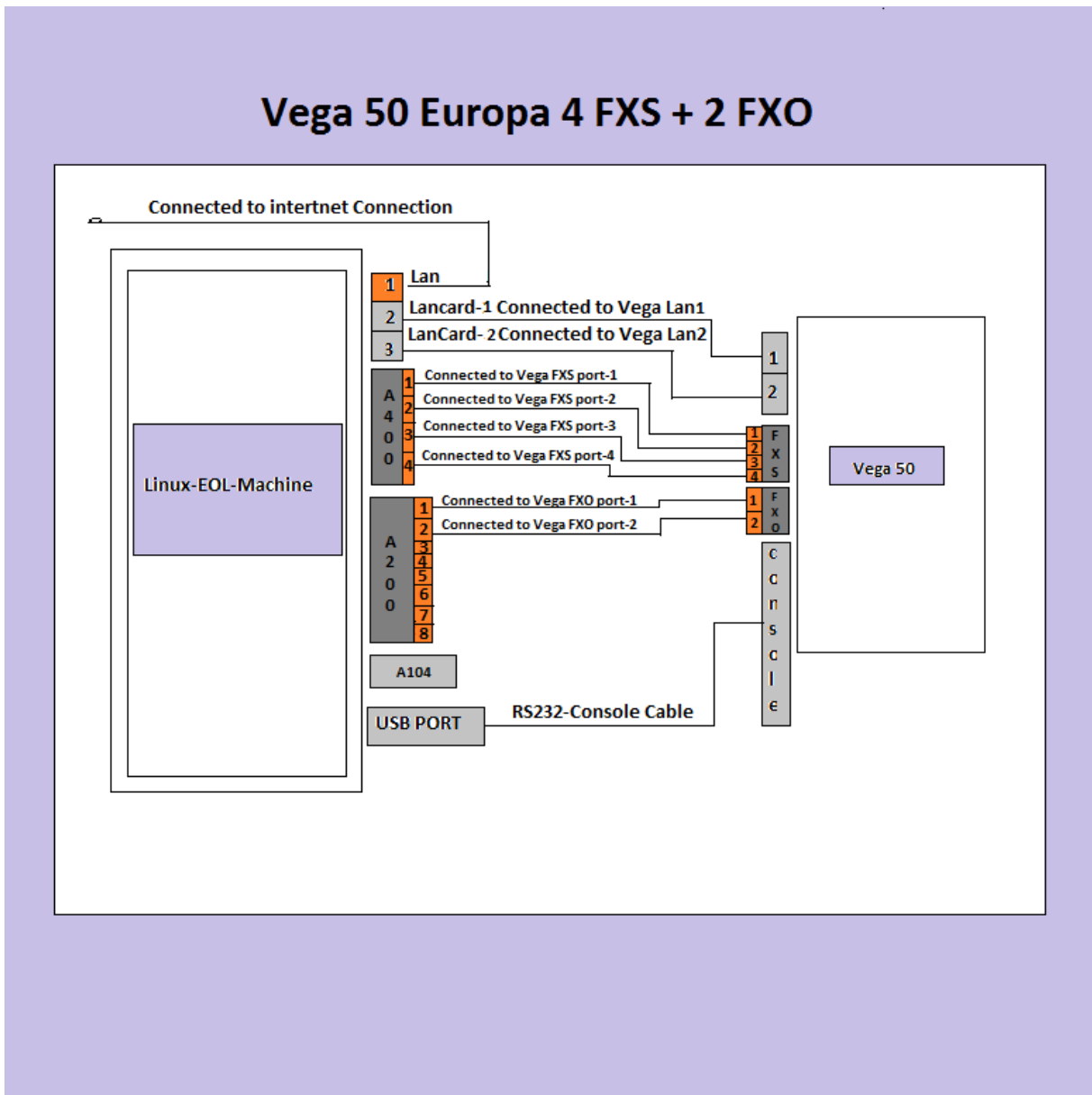


Figure 7 Vega 60G/50 Europa 4 FXS + 2FXO

## 2.8 VEGA 60G/50 EUROPA 4 FXO

### 2.8.1 Setup Prerequisite

- Connect RS-232 (serial) USB cable from EOL PC to Vega 50 console port.
- Connect RJ-45 cable from Vega 50 LAN-1 to EOL Lancard-1.
- Connect RJ-45 cable from Vega 50 LAN-2 to EOL Lancard-2.
- Connect Vega FXO ports to A200 FXS ports using RJ-11 cable.
- Please follow 2.5.2 Test Schematic.

**NOTE:** Cables are provided by Sangoma

### 2.8.2 Test Schematic

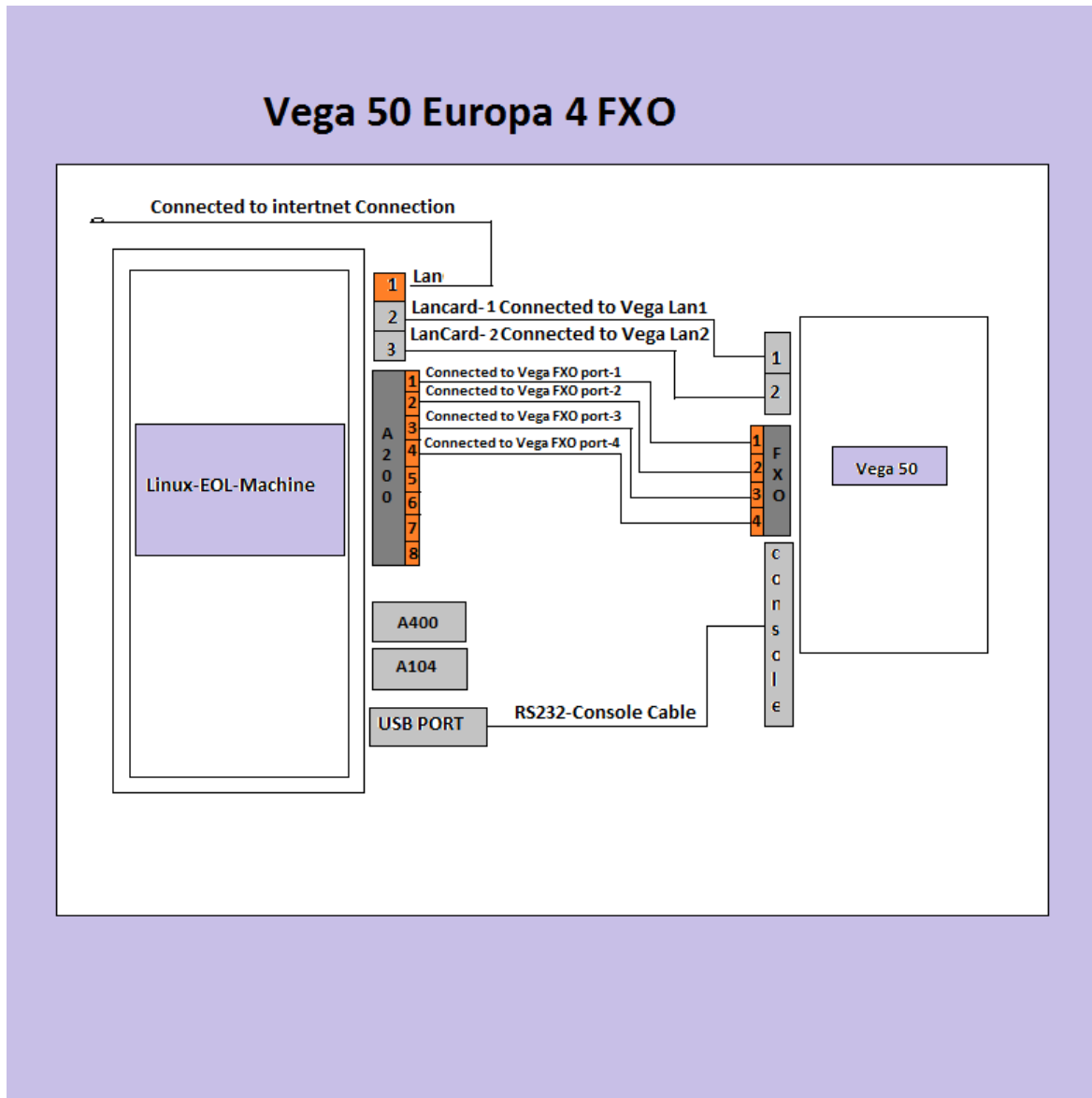


Figure 8 Vega 60G/50 Europa 4 FXO

## 2.9 VEGA 60G/50 EUROPA 8 FXO

### 2.9.1 Setup Prerequisite

- Connect RS-232 (serial) USB cable from EOL PC to Vega 50 console port.
- Connect RJ-45 cable from Vega 50 LAN-1 to EOL Lancard-1.
- Connect RJ-45 cable from Vega 50 LAN-2 to EOL Lancard-2.
- Connect Vega FXO ports to A200 FXS ports using RJ-11 cable.
- Please follow 2.6.2 Test Schematic.

**NOTE:** Cables are provided by Sangoma.

### 2.9.2 Test Schematic

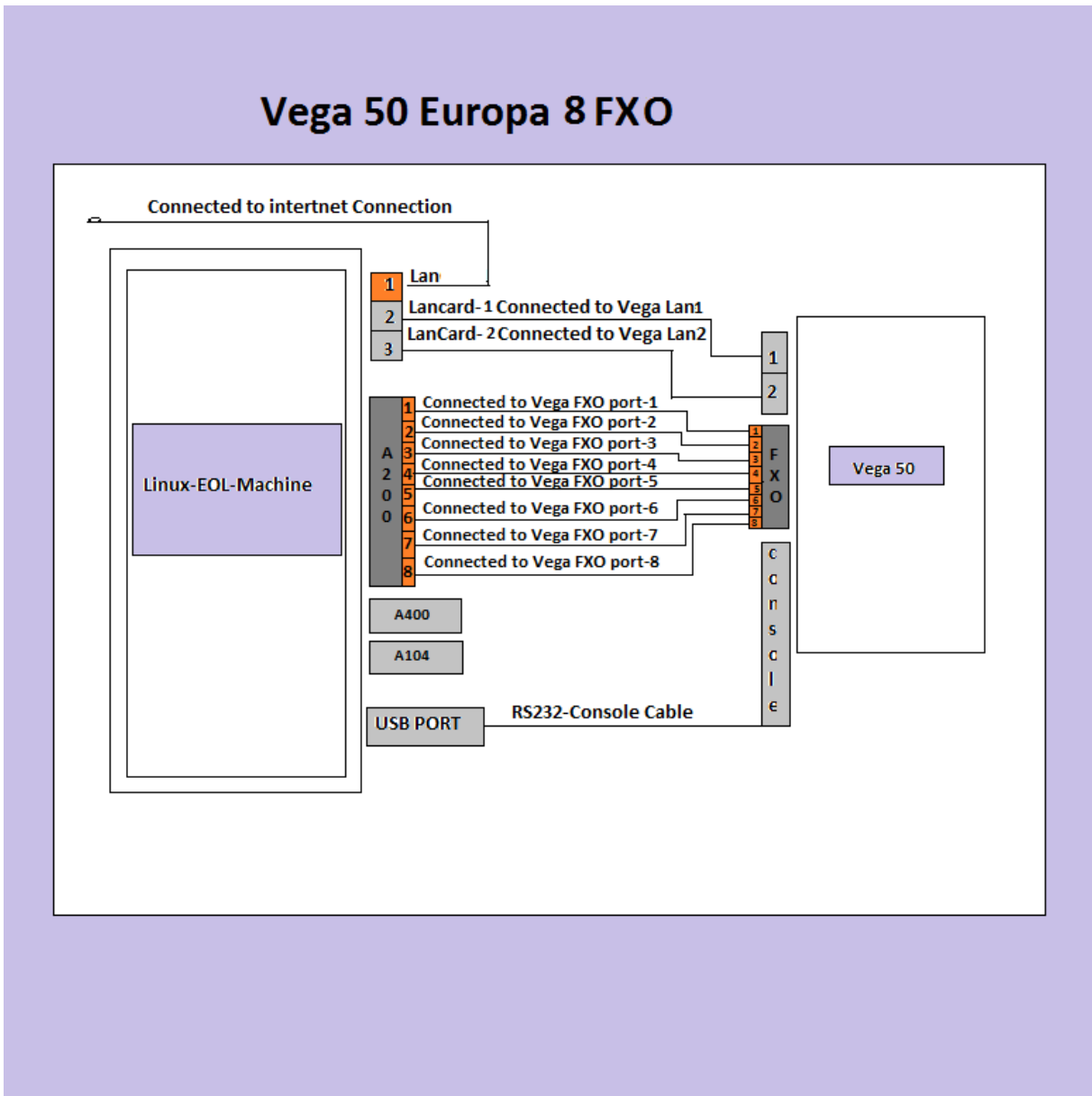


Figure 9 Vega 60G/50 Europa 8 FXO

## 2.10 VEGA 60G/50 EUROPA 8 FXS + 2 FXO

### 2.10.1 Setup Prerequisite

- Connect RS-232 (serial) USB cable from EOL PC to Vega 50 console port.
- Connect RJ-45 straight cable from Vega 50 LAN-1 to EOL Lancard-1.
- Connect RJ-45 straight cable from Vega 50 LAN-2 to EOL Lancard-2.
- Connect Vega FXS ports to A400 FXO ports using RJ-11 cable.
- Connect Vega FXO ports to A200 FXS ports using RJ-11 cable.
- Please follow 2.7.2 Test Schematic.

**NOTE:** Cables are provided by Sangoma.

### 2.10.2 Test Schematic

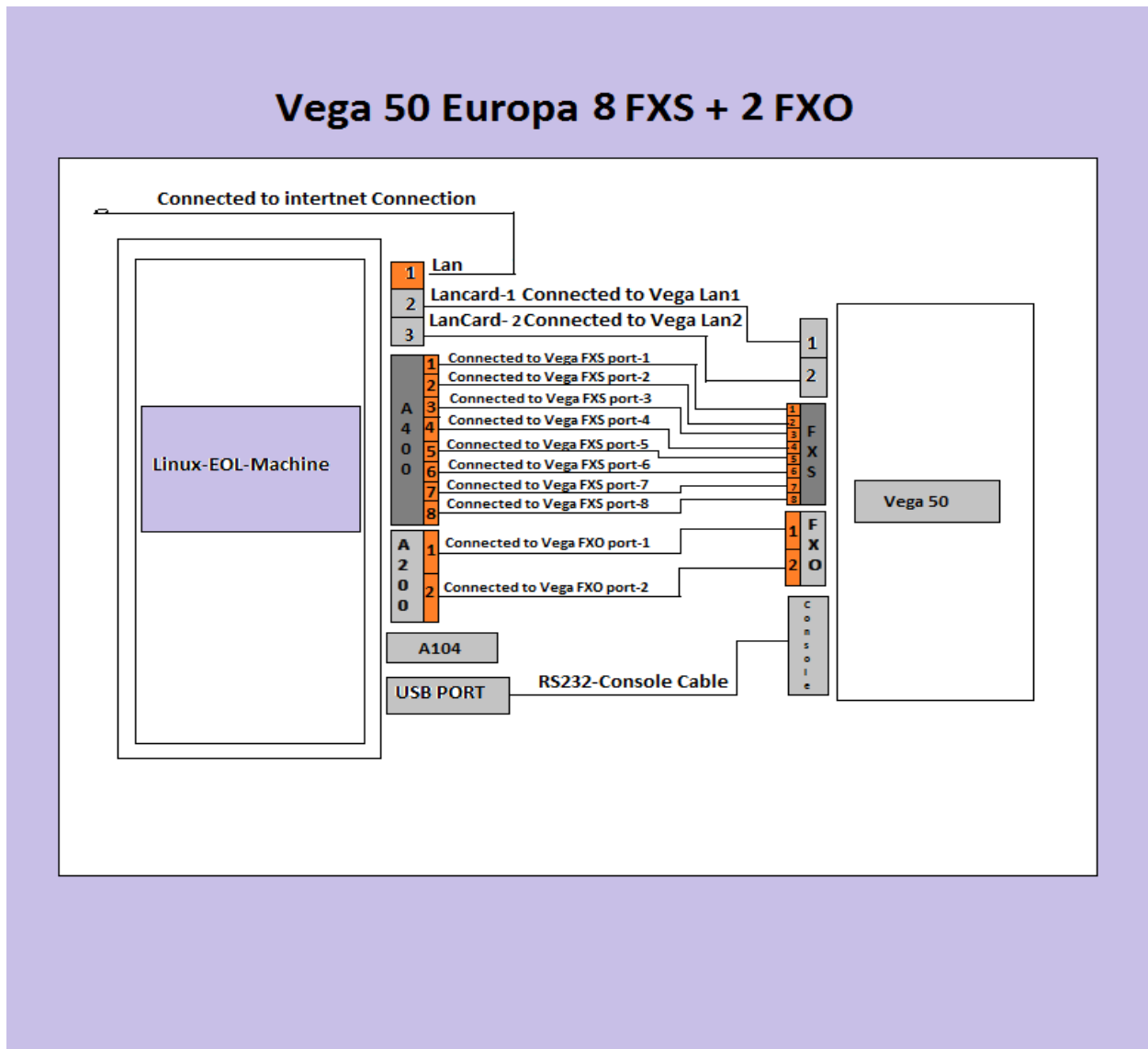


Figure 10 Vega 60G/50 Europa 8 FXS + 2FXO

## 2.11 VEGA 3000G

### 2.11.1 Setup Prerequisite

- Connect RS-232 (serial) USB cable from EOL PC to Vega 3000G console port.
- Connect RJ-45 cable from Vega 3000G LAN-1 to EOL Lancard-1.
- Connect RJ-45 cable from Vega 3000G LAN-2 to EOL Lancard-2.
- Connect Vega FXS ports to A400 FXO ports using RJ-21 male connector to RJ-21 female connector (provided by Sangoma).
- Please follow 2.8.2 Test Schematic.

**NOTE:** Cables are provided by Sangoma

### 2.11.2 Test Schematic

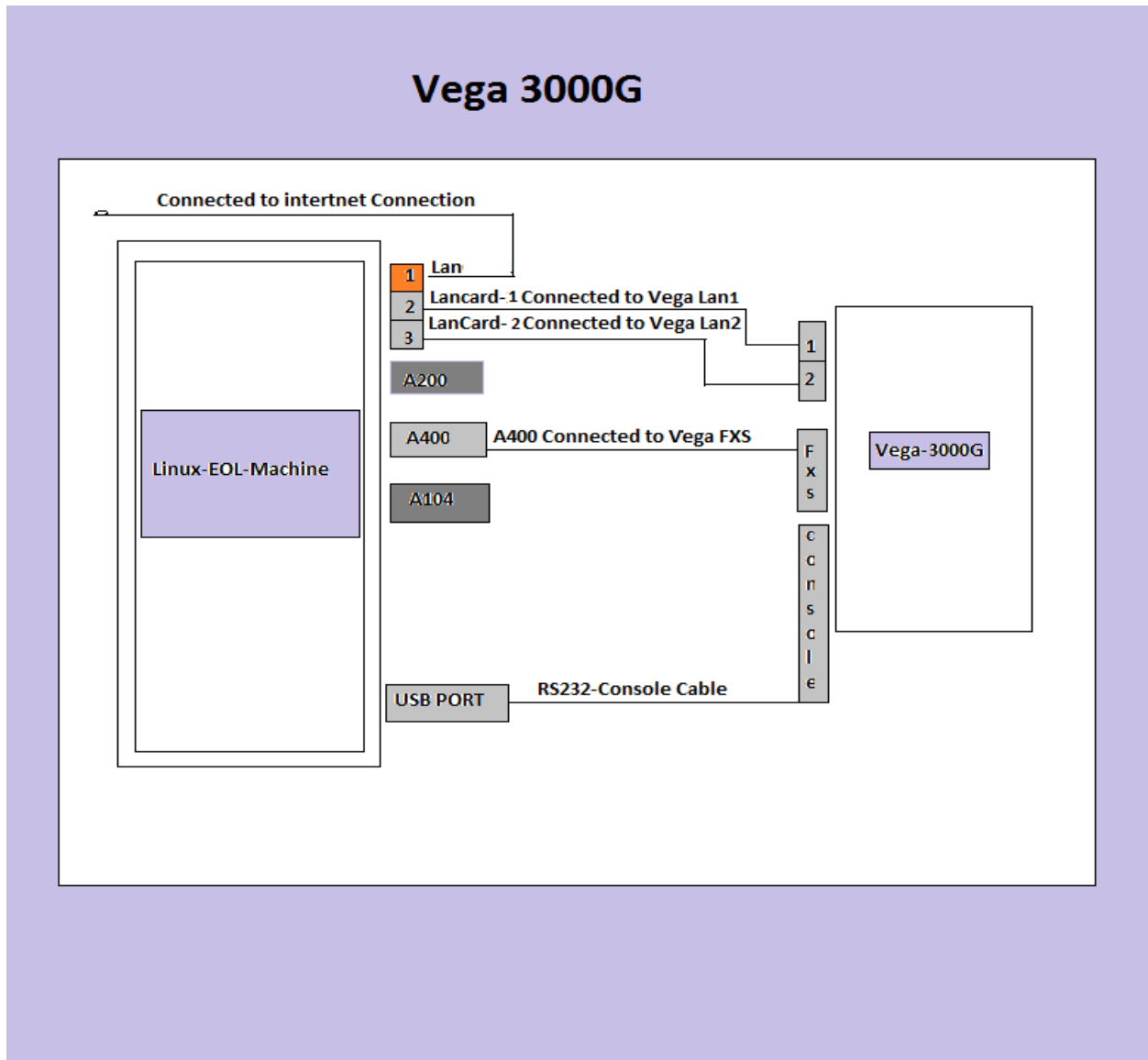


Figure 11 Vega 3000G

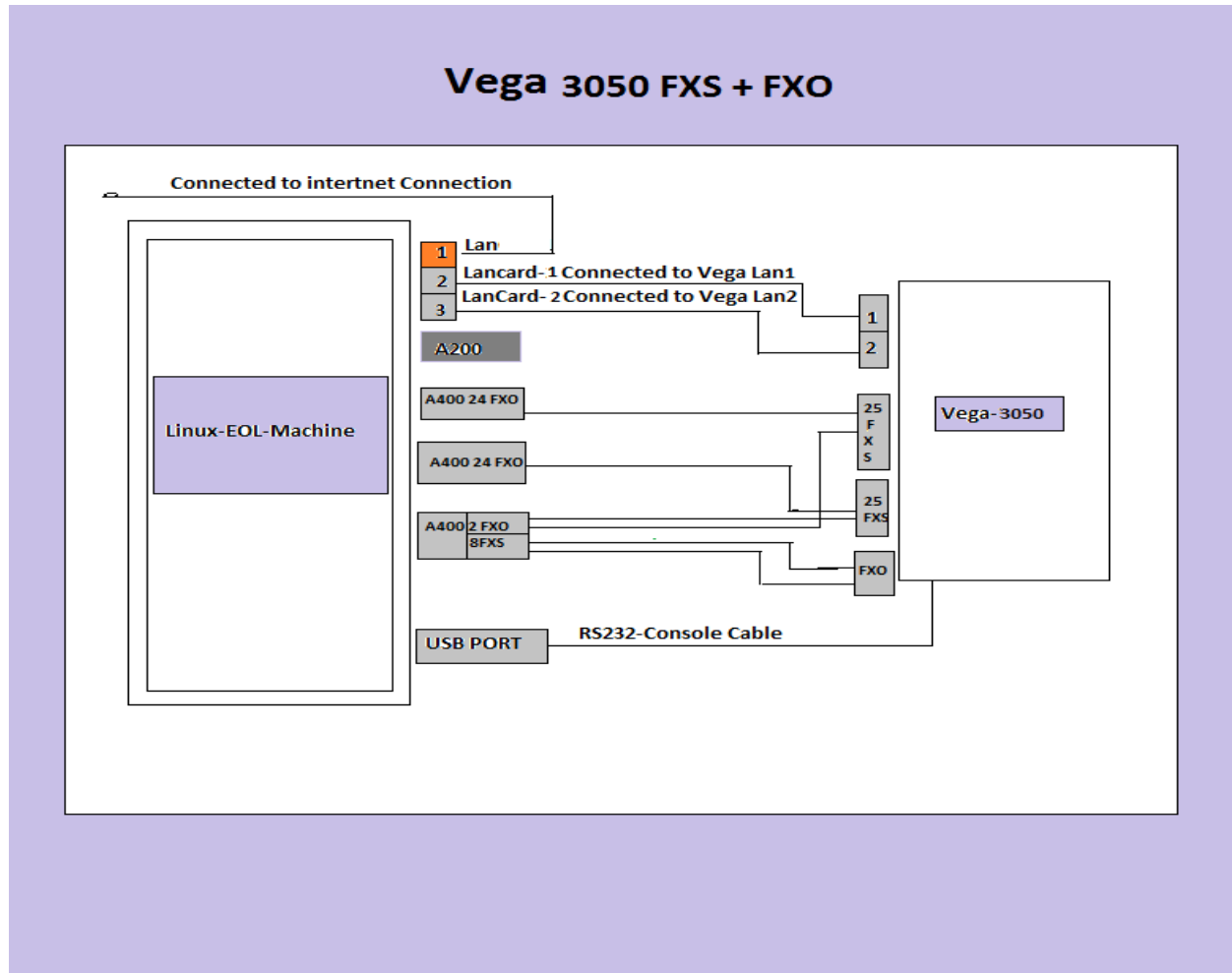
## 2.12 VEGA 3050G (50FXS + 2FXO)

### 2.12.1 Setup Prerequisite

- f) Connect RS-232 (serial) USB cable from EOL PC to Vega 3000G console port.
- g) Connect RJ-45 cable from Vega 3050G LAN-1 to EOL Lancard-1.
- h) Connect Vega 24 FXS ports to A400 FXO ports using RJ-21 male connector to RJ-21 female connector (provided by Sangoma).
- i) Connect Vega3050 24 FXS ports to A400 24FXO ports using RJ-21 male connector to RJ-21
- j) Connect Vega3050 `25th,50th FXS Port` to A400 FXO
- k) Connect Vega3050 FXO-1 to A400 FXS-1
- l) Connect Vega3050 FXO-2 to A400 FXS-2
- m) Please follow 2.8.2 Test Schematic.

**NOTE:** Cables are provided by Sangoma

### 2.12.2 Test Schematic



**Figure 12 Vega3050(50 FXS+ 2FXO)**

### 3 HOW TO START EOL TEST

Once you done with connecting Vega to EOL machine then you need to follow below steps to start the EOL test.

**Step1:** Power on Vega box, please wait for 2 minutes to boot it up.

**Step2:** Login EOL machine with below credentials.

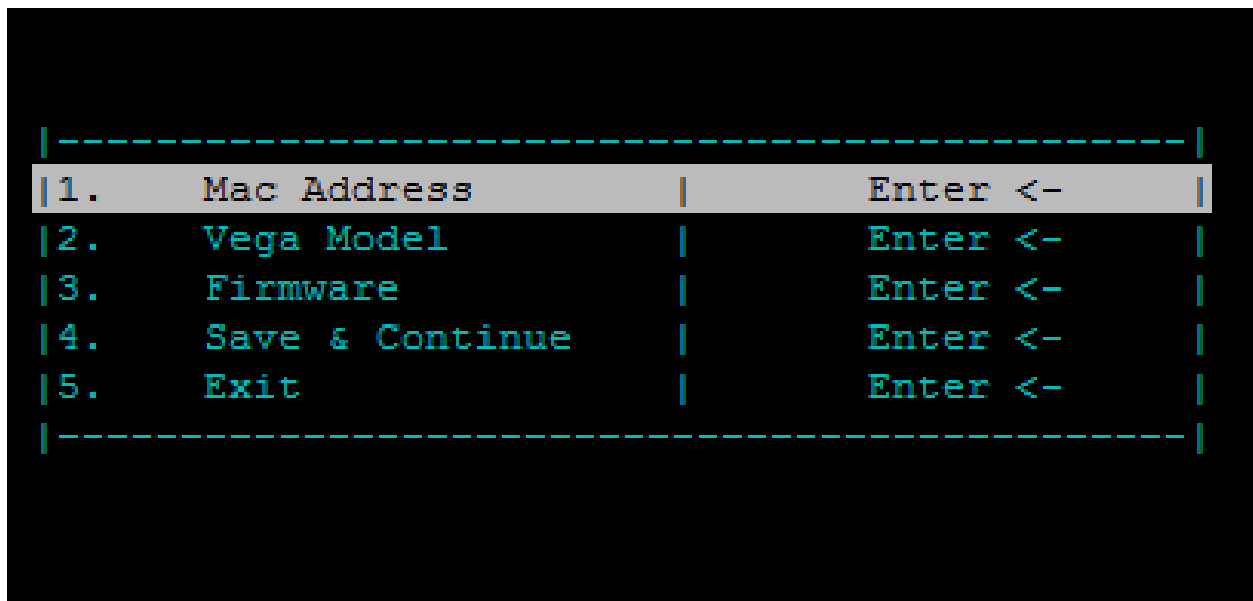
Username: root

Password: sangoma

**Step3:** Run below command.

```
$ eol
```

When we run above command we will get GUI on the screen as shown below.  
Use UP/DOWN keys to highlight the menu options.



```
|-----|
|1.    Mac Address    | Enter <-|
|2.    Vega Model     | Enter <-|
|3.    Firmware       | Enter <-|
|4.    Save & Continue | Enter <-|
|5.    Exit           | Enter <-|
|-----|
```

**Step4:**

Enter MAC address. Please follow below screen.

```
NOTE: Mac Address will start from 005058
Enter 12 digit MacAddress:005058203d6c
|-----|
|1.    Mac Address    |    Enter <-    |
|2.    Vega Model     |    Enter <-    |
|3.    Firmware       |    Enter <-    |
|4.    Save & Continue |    Enter <-    |
|5.    Exit           |    Enter <-    |
|-----|
NOTE: Mac Address, Vega model are mandatory fields
```

**Step5:**

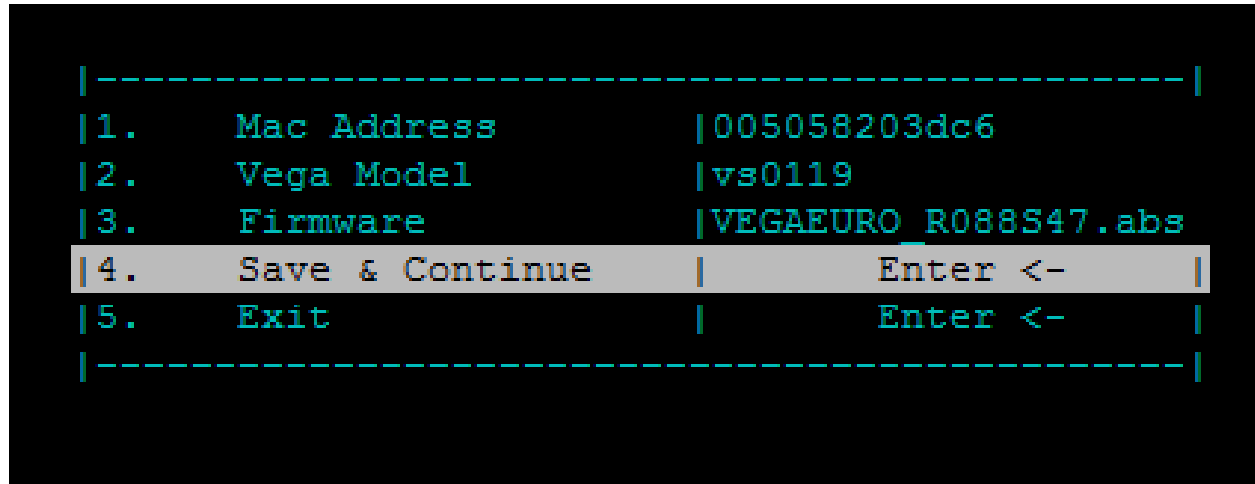
Enter Vega Model. Please follow below screen.

**NOTE:** No need to select firmware option, because as soon as you enter Vega model then it displays the firmware version according to Vega model.

```
NOTE:vs0140, vs0114 etc.,
Enter Vega Model:vs0119
|-----|
|1.      Mac Address      |005058203dc6
|2.      Vega Model      |      Enter <-
|3.      Firmware        |      Enter <-
|4.      Save & Continue  |      Enter <-
|5.      Exit             |      Enter <-
|-----|
```

**Step6:**

Select 'Save & Continue'.



**Step 7:** Select ‘Save & Continue’.

By default all the test cases are selected.

**NOTE:** For advanced testing purpose you can select and run individual test cases.

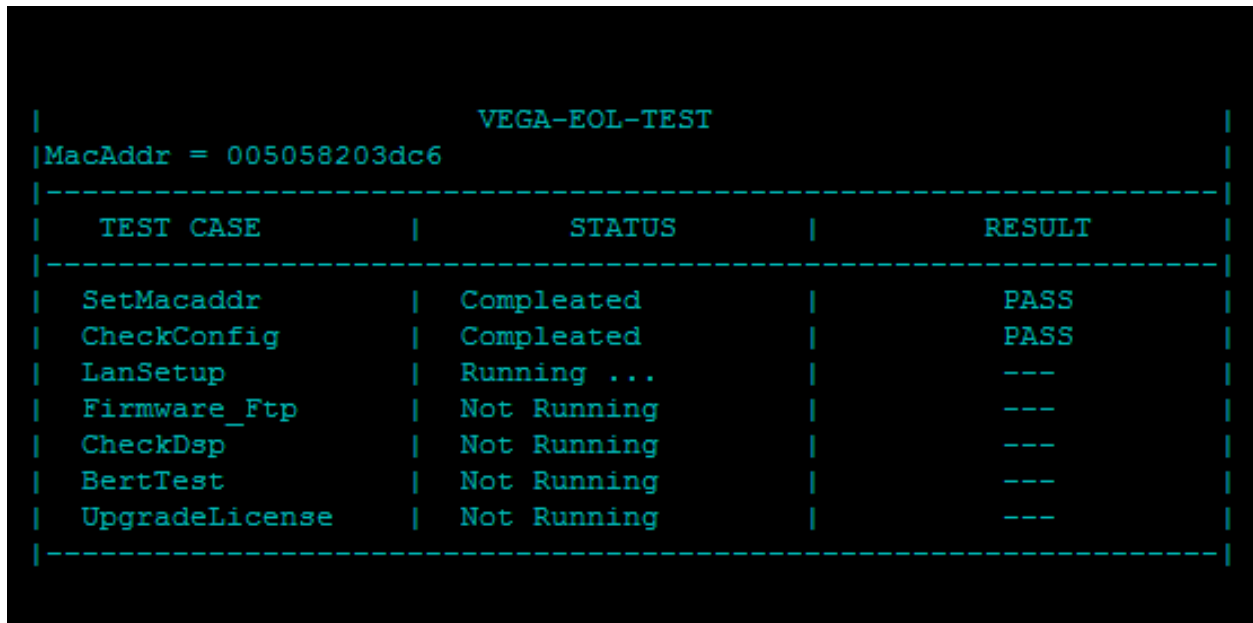
```

-----
|                                     VEGA-EOL                                     |
|-----|
|      Test--Case      |      Select Yes/No      |
|-----|
| 1.  SetMacaddr      |      YES      |
| 2.  CheckConfig     |      YES      |
| 3.  LanSetup        |      YES      |
| 4.  Firmware_Ftp    |      YES      |
| 5.  CheckDsp        |      YES      |
| 6.  BertTest        |      YES      |
| 7.  UpgradeLicense  |      YES      |
| 8.  Save & Continue |      Enter <-  |
| 9.  Exit            |      Enter <-  |
|-----|

```

When you select 'Save & Continue' below screen will appear.

By this step you will be knowing which test case is running and status as PASS or FAIL.

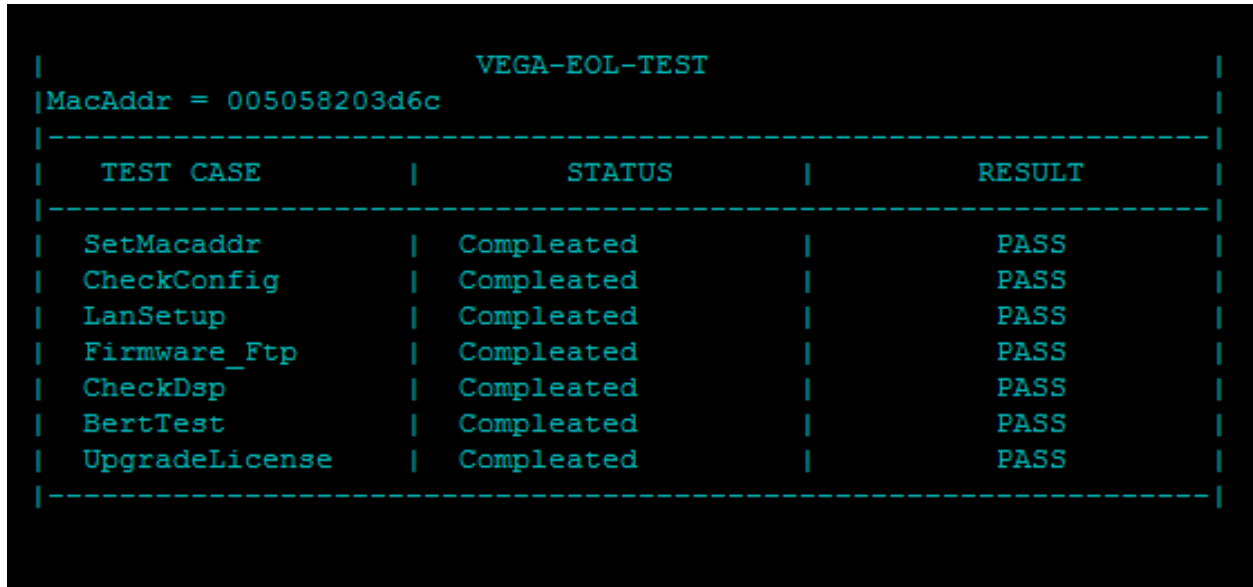
A screenshot of a terminal window with a black background and green text. The title is 'VEGA-EOL-TEST'. Below the title, it shows 'MacAddr = 005058203dc6'. A dashed line separates the header from the data. The header has three columns: 'TEST CASE', 'STATUS', and 'RESULT'. The data rows show the following: 'SetMacaddr' is 'Completed' with 'PASS'; 'CheckConfig' is 'Completed' with 'PASS'; 'LanSetup' is 'Running ...' with '---'; 'Firmware\_Ftp' is 'Not Running' with '---'; 'CheckDsp' is 'Not Running' with '---'; 'BertTest' is 'Not Running' with '---'; and 'UpgradeLicense' is 'Not Running' with '---'.

VEGA-EOL-TEST		
MacAddr = 005058203dc6		
TEST CASE	STATUS	RESULT
SetMacaddr	Completed	PASS
CheckConfig	Completed	PASS
LanSetup	Running ...	---
Firmware_Ftp	Not Running	---
CheckDsp	Not Running	---
BertTest	Not Running	---
UpgradeLicense	Not Running	---

## 4 RESULT VERIFICATION

### 4.1 Test Case is PASS

Please follow below screen in case of all the test cases are Passed.

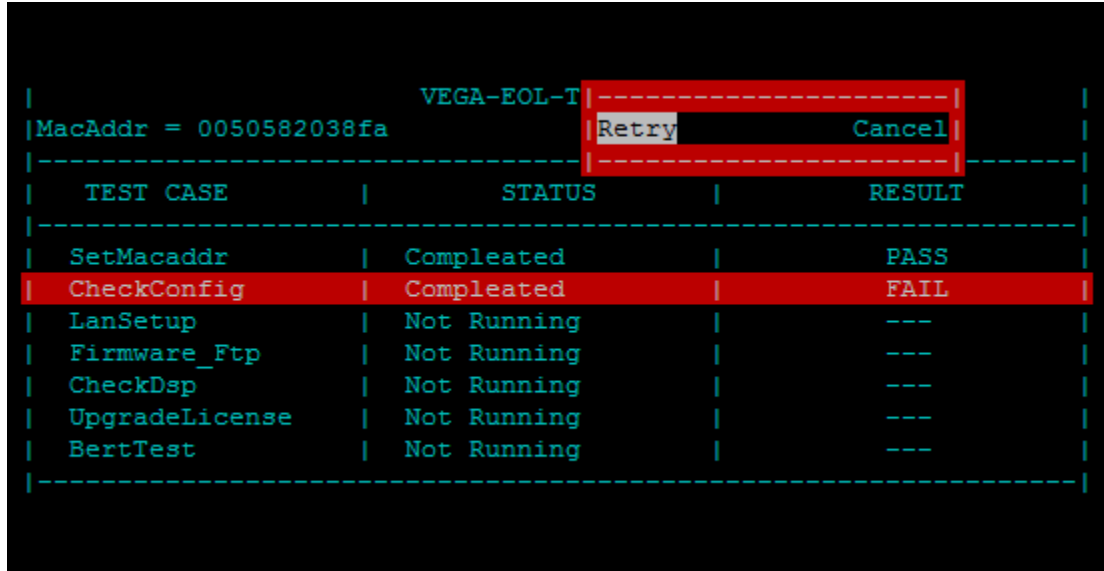


```
|                                     VEGA-EOL-TEST                                     |
|MacAddr = 005058203d6c|
|-----|
| TEST CASE | STATUS | RESULT |
|-----|
| SetMacaddr | Compleated | PASS |
| CheckConfig | Compleated | PASS |
| LanSetup | Compleated | PASS |
| Firmware_Ftp | Compleated | PASS |
| CheckDsp | Compleated | PASS |
| BertTest | Compleated | PASS |
| UpgradeLicense | Compleated | PASS |
|-----|
```

## 4.2 Test Case is FAIL

Please follow below screen in case of the test case failed.

User may want to select retry option to retry test case or cancel to abort test.



VEGA-EOL-T		
TEST CASE	STATUS	RESULT
MacAddr = 0050582038fa		Retry Cancel
SetMacaddr	Compleated	PASS
CheckConfig	Compleated	FAIL
LanSetup	Not Running	---
Firmware_Ftp	Not Running	---
CheckDsp	Not Running	---
UpgradeLicense	Not Running	---
BertTest	Not Running	---

If one or more test cases are failed then Please refer to 'LOGS TO SANGOMA' section.

## 5 LOGGING

During the EOL test process logs are generated in '/root/vega\_eol\_linux/log' directory.

If test case is pass then logs are moved to /root/vega\_eol\_linux/pass\_log

If test case is failed then logs are moved to /root/vega\_eol\_linux/fail\_log

The filename has the following composition:

Vega-<model>-<Mac address>-<time stamp>.log

Vega-<model>-<Mac address>-<time stamp>.-cli.log

Ex:

Vega-vs0119-005058203dc6-2015-12-29-20:10:47.log

Vega-vs0119-005058203dc6-2015-12-29-20:10:47-cli.log

After completion of the test cases, we will get compressed log file with the following format.

Vega-<model>-<Mac address>-<time stamp>.zip

if you want to see **current running log** then please type below commands:

```
cd /root/vega_eol_linux/log and enter
```

```
tail -f vega<tab>.log and enter
```

if you want to see **current running cli log** then please type below commands:

```
cd /root/vega_eol_linux/log and enter
```

```
tail -f vega<tab>-cli.log and enter
```

## 6 LOGS TO SANGOMA

If you find one of the test cases are failed as shown in **4.2 section**, then please collect the compressed log file and send it to Sangoma team.

Ex:

Vega-<model>-<Mac address>-<time stamp>.zip