Spirent TestCenter™ Virtual Controller
Set up Guide

Procedures to guide the first-time user to install and deploy the Spirent TestCenter Virtual Controller
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Virtual Controller Setup

The Virtual Controller must be set up prior to setting up the Spirent TestCenter Virtual Machines
Important Note

- The Spirent TestCenter Virtual Controller has three versions (REV. #).

Hardware version “A” with two revs:
If the Revision # is D or earlier, use the instructions starting on page 7 of this document.
If the Revision # is E or later, use the instructions starting on page 11 of this document.

Hardware version “B”:
Use the instructions starting on page 15 of this document.
Virtual Controller Configuration
Connect a console cable to the **Serial Port** connection.

Connect the Administration Network to a network that will be reachable via the Spirent TestCenter Virtual Machines.
Spirent TestCenter Virtual Controller

- Connect and configure the Spirent TestCenter Controller with HyperTerminal

![HyperTerminal setup]

- Bits per second: 9600
- Data bits: 8
- Parity: None
- Stop bits: 1
- Flow control: Xon / Xoff
Spirent TestCenter Virtual Controller Commands

- **Login Information**
  - Username: admin
  - Password: spt_admin

- **Configuration commands**
  - **ipaddress <ipaddress>**
    - The IP address assigned to the administration network interface
  - **gwaddress <gateway ip address>**
    - The Gateway IP of the network attached to the admin network
  - **netmask <netmask>**
    - The Netmask of the admin network
  - **Activate**
  - **reboot**
  - **Help**
    - List of all available commands
Spirent TestCenter Virtual Controller

- After you have configured the administration network interface, you can SSH using admin/spt_admin into the configured IP address.

PuTTY Configuration dialog box showing the connection to 10.2.19.56 with a port of 22.
Spirent TestCenter Virtual Controller

- Connect an Ethernet cable from your laptop (or desktop) to the Administration Network Ethernet port
- The Virtual Controller’s default IP address is 192.168.1.1. Set your PC IP to an address on the same subnet (i.e. 192.168.1.2)
- SSH using admin/spt_admin into the 192.168.1.1 address
Spirent TestCenter Virtual Controller Commands

- Login Information
  - Username: admin
  - Password: spt_admin

- Configuration commands
  - `ipaddress <ipaddress>`
    - The IP address assigned to the administration network interface
  - `gwaddress <gateway ip address>`
    - The Gateway IP of the network attached to the admin network
  - `netmask <netmask>`
    - The Netmask of the admin network
  - Activate
  - reboot
  - Help
    - List of all available commands
After the initial configuration, connect the Administration Network to a network that will be reachable via the Spirent TestCenter Virtual Machines.
Spirent TestCenter Virtual Controller

- After you have configured the administration network interface, you can SSH using admin/spt_admin into the configured IP address.

PuTTY Configuration

- Specify the destination you want to connect to:
  - Host Name [or IP address]: 10.2.19.56
  - Port: 22

Connection type:
- SSH

PuTTY - 10.2.19.56

Welcome admin.
Type help for a list of commands
admin>> help
help [command]  
Available Commands:
  - version
  - gwaddress
  - ipaddress
  - netmask
  - hostname | hostname
  - ping
  - login
  - reboot
  - activate
  - server
date
dns

admin>>
The VCTL-2000B version supports two set up methods:

- **Direct console** login using Monitor, keyboard and mouse
- **Remote SSH console** login using direct-attached Ethernet cable
Spirent TestCenter Virtual Controller (Direct Console Login)

- Connect a video cable to the DVI-I connector
- Connect a USB keyboard and mouse to the USB 2.0 connectors
- Connect the Administration Network to a network that will be reachable via the Spirent TestCenter Virtual Machines
Spirent TestCenter Virtual Controller Commands

- **Login Information**
  - Username: admin
  - Password: spt_admin

- **Configuration commands**
  - `ipaddress <ipaddress>`
    - The IP address assigned to the administration network interface
  - `gwaddress <gateway ip address>`
    - The Gateway IP of the network attached to the admin network
  - `netmask <netmask>`
    - The Netmask of the admin network
  - **Activate**
  - **reboot**
  - **Help**
    - List of all available commands
After you have configured the administration network interface, you can SSH using admin/spt_admin into the configured IP address.
Spirent TestCenter Virtual Controller (Ethernet Cable Login)

- Connect an Ethernet cable from your laptop (or desktop) to the Administration Network Ethernet port
- The Virtual Controller’s default IP address is 192.168.1.1. Set your PC IP to an address on the same subnet (i.e. 192.168.1.2)
- SSH using admin/spt_admin into the 192.168.1.1 address
Spirent TestCenter Virtual Controller Commands

- **Login Information**
  - Username: admin
  - Password: spt_admin

- **Configuration commands**
  - **ipaddress <ipaddress>**
    - The IP address assigned to the administration network interface
  - **gwaddress <gateway ip address>**
    - The Gateway IP of the network attached to the admin network
  - **netmask <netmask>**
    - The Netmask of the admin network
  - **Activate**
  - **reboot**
  - **Help**
    - List of all available commands
Spirent TestCenter Virtual Controller

- After the initial configuration, connect the Administration Network to a network that will be reachable via the Spirent TestCenter Virtual Machines.
Spirent TestCenter Virtual Controller

- After you have configured the administration network interface, you can SSH using admin/spt_admin into the configured IP address.
Installing Spirent TestCenter Virtual Licenses
Installing Licenses - Overview

- Spirent TestCenter Virtual requires two types of license files
  1. Feature licenses - contain software licenses for features and software support
  2. Virtual Ports licenses - contain the quantity of virtual ports to be enabled

- The license files must be placed in the correct license directory on the Virtual Controller for proper validation
  - Feature licenses must reside in the feature-licenses directory
  - Virtual Ports licenses must reside in the stv-licenses directory

- Spirent TestCenter Virtual licenses are associated to the Virtual Controller Flex-ID, and not to the serial number

- Licenses can be obtained using the LEI (License Entitlement ID). Detailed instructions are on the License Entitlement ID Certificate delivered with the order.
1. Use Windows® Explorer to connect to the Samba share running on the Virtual Controller using the `\<virtual controller IP address>`.
2. Copy all Virtual Port licenses to the `stv-licenses` directory, and all Feature/Support licenses to the `feature-licenses` directory

- If your new license files are not identified as Port or Feature licenses in the file name, you must open the license files using the WordPad editor to identify the correct files

- A Virtual port license file contains the following lines:

```
SERVER this_host FLEXID=9-05AE9F24
VENDOR spirentd
USE_SERVER
INCREMENT VIRTUAL_TESTCENTER spirentd 2010.12 21-feb-2011 256
....
```
3. Connect to the Virtual Controller using SSH. Log in using the admin username and spt_admin password

4. Use the server stop and the server start commands to restart the Virtual Controller process
5. Use the server status command to verify the Virtual Controller process is up and the license files were read correctly
6. If the Spirent TestCenter GUI application is running, be sure to restart it.

You have successfully installed your licenses.
How to Contact Us

To obtain technical support for any Spirent Communications product, please contact our Support Services department using any of the following methods:

**Americas**
- E-mail: support@spirent.com
- Web: [http://support.spirent.com](http://support.spirent.com)
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- Hours: Monday through Friday, 05:30 to 18:00, Pacific Time

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- Phone: +44 1803 546333 (UK)
- Hours: Monday through Thursday, 09:00 to 18:00, Friday, 09:00 to 17:00, Paris Time

**Asia Pacific**
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- Hours: Monday through Friday, 09:00 to 18:00, Beijing Time

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Information about Spirent Communications and its products and services can be found on the main company website at [http://www.spirent.com](http://www.spirent.com)

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