

# **TANDBERG VCS**

## **Video Communication Server**

Getting started

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# **TANDBERG**

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# General information

## About the TANDBERG Video Communications Server (VCS)

The TANDBERG VCS enhances the video experience and provides seamless communication between SIP and H.323 devices utilizing IETF and ITU standards. The VCS is the center of the video communication network and connects all H.323 and SIP endpoints, infrastructure, and management devices. The VCS provides unrivaled scalability and redundancy to video communications, and is integral to TANDBERG interoperability with unified communications and Voice over IP systems. The VCS can be deployed with either the Control application or the Expressway™ application, with various optional packages including FindMe™ and Dual Network Interfaces.

### VCS Control

The VCS Control provides internal video control and administration for all SIP and H.323 devices. It is normally deployed within your wide area network with endpoints that are behind the same firewalls or NAT devices.

The VCS Control replaces the need to have separate H.323 gatekeeper, SIP registrar and H.323-SIP gateway servers.

### VCS Expressway™

The VCS Expressway provides standards-based firewall traversal for SIP and H.323 devices allowing secure traversal of any firewall or NAT device. It provides registration of traversal-enabled devices and STUN Discovery and STUN Relay services.

The VCS Expressway is normally deployed within your DMZ.

## Package contents

To avoid damage to the unit during transportation the TANDBERG VCS is delivered in a special shipping box, which should contain the following components:

- TANDBERG VCS
- Getting Started Guide (this document)
- CD containing VCS Administrator Guide and other documentation
- registration card
- rack ears and screws
- cables:
  - power cables
  - Ethernet cable
  - shielded serial cable.

Report any discrepancies to your TANDBERG representative immediately.

We recommend that the shipping box is kept in case the VCS needs to be returned.

# Installing the VCS

## General warnings

- Do not place heavy objects directly on top of the VCS.
- Do not place hot objects directly on top of, or directly beneath the VCS.

## Preparing the installation site

Before installing the VCS:

- Make sure that the VCS is accessible and that all cables can be easily connected.
- To ensure adequate ventilation, leave a space of at least 10cm (4 inches) behind the VCS's rear panel and 10cm (4 inches) in front of the front panel.
- The room in which you install the VCS should have an ambient temperature between 0°C and 35°C (32°F and 95°F) and between 10% and 90% non-condensing relative humidity.
- Use a grounded AC power outlet for the VCS.

## Preparing the unit

1. Unpack the unit.
2. Mount the rack ears or rubber feet.
3. Turn the unit back on its feet or mount it in the rack.



TANDBERG recommends that if this product is mounted in a rack you use additional support accessories such as rack side support angles (rack angle brackets) or rack shelves, due to the unit's weight and depth. Contact your rack supplier to request the accessories best suited for your rack.

## Connecting the cables

1. Connect the power cable to the back of the VCS (see Figure 1).
2. Connect the Ethernet LAN cable from the **LAN1** port on the front of the VCS to your network (see Figure 2).

## Powering on the VCS

1. Turn on the power switch on the back right of the unit (adjacent to the power cable).

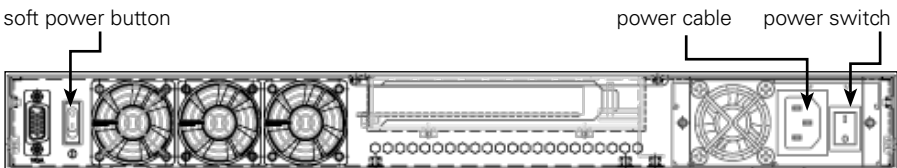


Figure 1: VCS back view

2. Press the soft power button on the back left of the unit. The system will power up. Wait until:
  - the green PWR LED on the front of the unit is a steady green color (it may flash briefly during power up)
  - the red ALM LED on the front of the unit has gone out
  - the IP address is showing in the display panel on the front of the unit.



If the red ALM LED flashes rapidly it indicates a hardware fault. Contact your local TANDBERG representative. The yellow HDD LED indicates disk activity and may flicker during normal operation, more so on a busy system.

## Initial configuration

Before you can use the VCS, you must configure its IPv4 address, subnet mask and default gateway. Consult your network administrator for information on which addresses to use. Note that the VCS must use a static IP address.

This initial configuration can be done:

- by connecting from a PC to the VCS using a serial cable. This is the recommended process, and is described in the following section
- by using the buttons on the front panel. See the VCS Administrator Guide for details
- if your network is set up to allow it, by connecting using a web browser to the default IP address of 192.168.0.100 (described in “Using the web interface” on page 7).

## Initial configuration using a serial cable

To set the initial configuration using a PC connected to the VCS **DATA** port via a serial cable:

1. Connect the Ethernet LAN cable from the **LAN1** port on the front of the VCS to your network.
2. Connect the supplied serial cable from the **DATA** port on the front of the VCS to the serial port on a PC.

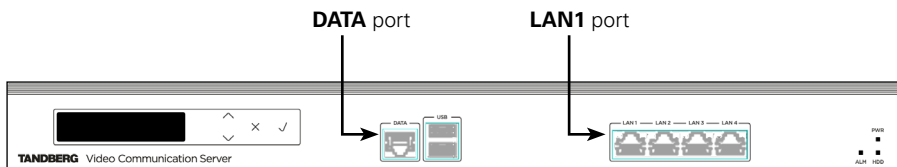


Figure 2: VCS front view

## Initial configuration

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3. Start a terminal emulator program on the PC and configure it to use the PC's serial port as follows:
  - baud rate: 115200 bits per second
  - data bits: 8
  - parity: none
  - stop bits: 1
  - flow control (hardware and software): none.



Do not leave a terminal emulator session open after it is no longer in use. An open session may cause issues during a system restart.

4. Turn on the power switch on the back right of the unit (adjacent to the power cable).
5. Press the soft power button on the back left of the unit. The system will power up. Wait until:
  - the green PWR LED on the front of the unit is a steady green color (it may flash briefly during power up)
  - the red ALM LED on the front of the unit has gone out
  - the default IP address (**192.168.0.100**) is showing in the display panel on the front of the unit.

The terminal emulator program on the PC will display the VCS's start up information. After approximately four minutes you will get the login prompt (if the VCS was already on when you connected the serial cable, press **Enter** to get the login prompt):

**tandberg login:**

6. Enter the username **admin** and press **Enter**.  
You will get the password prompt:  
**Password:**
7. Enter the default password of **TANDBERG** and press **Enter**.  
You will get the install wizard prompt:  
**Run install wizard [n]:**
8. Type **y** and press **Enter**.

9. Follow the prompts given by the install wizard to specify the following:

- the password you want to use for your admin account



For security reasons you should change the password from the default of **TANDBERG**.

- whether you wish to use IPv4, IPv6 or Both
- the LAN 1 IP address of the VCS
- the LAN 1 IPv4 subnet mask of the VCS (if you have selected IPv4)
- the IP default gateway of the VCS
- the Ethernet speed



Use the default value of **Auto** unless the switch to which you are connecting is unable to auto-negotiate.

- whether you want to use SSH to administer the VCS
- whether you want to use Telnet to administer the VCS.

After the wizard is finished the following message will appear, and you will be prompted to log in again:

```
Setting other settings...
```

```
OK. The system must be restarted for new
settings to take effect..
```

10. Login with the username **admin** and your new password.

11. You will again get the install wizard prompt; this time select **n** and press **Enter** in order to skip the wizard.

A welcome message similar to the following will appear:

```
Welcome to
TANDBERG VCS Release X4.1
SW Release Date: 2009-01-31
OK
```

12. You must now reboot the system in order for the new settings take effect. To do this, type the command:

```
xCommand boot
```

13. Disconnect the serial cable and store it in a safe place.

After it has rebooted, the VCS is ready to use. For security reasons you should now change the password for the default admin account (if you have not already done so) and the root account from the default of TANDBERG. See the sections “Changing the admin account password” and “Changing the root account password” on page 6 for details.



The IP configuration made using the install wizard applies to the LAN 1 Ethernet port only. If you have enabled the LAN 2 port (by installing the Dual Network Interfaces option key) you must use the web interface or CLI to configure the LAN 2 settings.

## Using the VCS

After you have set the initial configuration of the VCS, the system is ready to use. You can continue to use the serial connection to access and manage the VCS, or you can connect to the system remotely over IP using either or both:

- the web interface via HTTPS. See “Using the web interface” on page 7 for details.
- a command line interface via SSH or Telnet. See “Using the Command Line Interface (CLI)” on page 7 for details.



For security reasons, you should change the passwords for the admin account and the root account from the default of TANDBERG as soon as initial configuration of the VCS has been completed.

## Changing the admin account password

To change the password for the admin account using the web interface:

1. Navigate to **Maintenance > Administrators > Administrator accounts**.  
You will be taken to the **Administrator accounts** page.
2. Click on **View/Edit** for the admin name.  
You will be taken to the **Edit administrator account** page.
3. In the **Password** and **Confirm password** fields, enter the new password, and click **Save**.

To change the password for the admin account using the CLI:

1. Type **xConfiguration SystemUnit Password**



You cannot set a blank password for the admin user or any other administrator account, or the root account.

## Changing the root account password

To change the password for the root account:

1. Using the CLI, log in as **root**.
2. Type **passwd**.  
You will be asked for the new password.
3. Enter the new password and when prompted, retype the password.
4. Type **exit** to log out of the root account.

## Other recommended configuration

We recommend that you now configure the following:

- The system name of the VCS. This is used by the TANDBERG Management Suite (TMS) to identify the system. This can be set from the **System administration** page on the web interface (navigate to **System configuration > System**).
- Automatic discovery. If you have multiple VCSs in the same network you may want to disable automatic discovery on some of them. This can be set from the **H.323** page on the web interface (navigate to **VCS configuration > Protocols > H.323**).
- The DNS server address(es), if URI dialing or Fully Qualified Domain Names (FQDNs) are to be used. This can be set from the **DNS** page on the web interface (navigate to **System configuration > DNS**).

Refer to the online help or the VCS Administrator Guide (available on the CD that was shipped with your unit and from [www.tandberg.com](http://www.tandberg.com)) for complete information on configuring these and all other options available on your VCS.

## Using the web interface

To use the web interface:

1. Open a browser window and in the address line type either:
  - the IP address of the VCS
  - the FQDN of the VCS.

The **Login** page will appear.

2. Select **Administrator Login**.
3. Enter a valid administrator **username** and **password** and select **Login**.

You will be presented with the **Overview** page.

Refer to the online help or the VCS Administrator Guide for further information on the configuration options available for each page of the VCS web interface.

## Using the Command Line Interface (CLI)

The command line interface is available over SSH, Telnet and through the serial port.

To use the command line interface:

1. Start a SSH or Telnet session.
2. Enter the IP address or FQDN of the VCS.
3. Login with a username of **admin** and your system password.

You will see a welcome message.

For a full list of CLI commands available on the VCS, see the Command Reference appendix of the VCS Administrator Guide.