vEOS Router Appliance
Quick Start Guide

Arista Networks
www.arista.com

Arista DCA-200-vEOS
DOC-03497-05
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<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

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Chapter 1

Overview

Scope

This guide is intended for properly trained service personnel and technicians who need to install the Arista CloudVision appliance.

Note: Only qualified personnel should install, service, or replace this equipment.

Safety Information


Supplemental Documentation


Obtaining Technical Assistance

Any customer, partner, reseller or distributor holding a valid Arista Service Contract can obtain technical support in any of the following ways:

- Email: mailto:support@arista.com. This is the easiest way to create a new service request. Include a detailed description of the problem and the output of “show tech-support”.
- Web: www.arista.com/en/support. A support case may be created through the support portal on our website. You may also download the most current software and documentation, as well as view FAQs, Knowledge Base articles, Security Advisories, and Field Notices.
- Phone: 1-866-476-0000 or 1-408-547-5502.
Specifications

The following Appliance Specifications table lists the specifications of the Arista CloudVision appliance.

<table>
<thead>
<tr>
<th>System</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xa</td>
<td>482.0 mm (18.97 inches)</td>
</tr>
<tr>
<td>Xb</td>
<td>434.0 mm (17.08 inches)</td>
</tr>
<tr>
<td>Y</td>
<td>42.8 mm (3.41 inches)</td>
</tr>
<tr>
<td>Za</td>
<td>35.84 mm (1.41 inches) (with bezel)</td>
</tr>
<tr>
<td></td>
<td>22 mm (0.87 inches) (without bezel)</td>
</tr>
<tr>
<td>Zb</td>
<td>x4 and x10 = 657.25 mm (25.87 inches)</td>
</tr>
<tr>
<td></td>
<td>x8 = 606.47 (23.87 inches)</td>
</tr>
<tr>
<td>Zc</td>
<td>x4 and x10 = 692.62 (27.26 inches)</td>
</tr>
<tr>
<td></td>
<td>x8 = 641.85 mm (25.26 inches)</td>
</tr>
</tbody>
</table>

Figure 1: System Dimensions

Table 1: Weight Specifications

The table below shows the unit weight specifications with all drives/SSDs installed.

<table>
<thead>
<tr>
<th>Weight</th>
<th>Maximum weight (with all drives/SSDs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x 3.5-inch drive system</td>
<td>17.64 Kg (38.90 lb)</td>
</tr>
<tr>
<td>Weight</td>
<td>Maximum weight (with all drives/SSDs)</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>8 x 2.5-inch drive system</td>
<td>16.04 Kg (35.36 lb)</td>
</tr>
<tr>
<td>10 x 2.5-inch drive system</td>
<td>16.81 Kg (37.07 lb)</td>
</tr>
</tbody>
</table>

**Table 2: Power Specifications**

The table below shows the power supply specifications.

<table>
<thead>
<tr>
<th>Power Draw</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Draw (Typical / Maximum) 550 W AC</td>
<td>Platinum 50/60 Hz 100 240 V AC, auto-arranging</td>
</tr>
<tr>
<td>Power Draw (Typical / Maximum) 450 W AC</td>
<td>Bronze 50/60 Hz 100 240 V AC, auto-arranging</td>
</tr>
</tbody>
</table>

**Table 3: Temperature Specifications**

The table below shows the optimal working temperature specifications.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>40°C to 65°C (40°F to 149°F)</td>
</tr>
<tr>
<td>Continuous operation (for altitude less than 950 m or 3117 ft)</td>
<td>10°C to 35°C (50°F to 95°F) with no direct sunlight on the equipment.</td>
</tr>
<tr>
<td>Fresh air</td>
<td>20°C/h (68°F/h)</td>
</tr>
</tbody>
</table>

**Table 4: Relative Humidity Specifications**

The table below shows the relative humidity specification during operations and storage.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Relative humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>5% to 95% RH with 33°C (91°F) maximum dew point. Atmosphere must be non-condensing at all times.</td>
</tr>
<tr>
<td>Operating</td>
<td>10% to 80% relative humidity with 29°C (84.2°F) maximum dew point.</td>
</tr>
</tbody>
</table>

**Table 5: Maximum Vibration Specifications**

The table below shows the maximum vibration specifications during operations and storage.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Maximum vibration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating</td>
<td>0.26 G&lt;sub&gt;rms&lt;/sub&gt; at 5 Hz to 350 Hz (all operation orientations).</td>
</tr>
<tr>
<td>Storage</td>
<td>1.88 G&lt;sub&gt;rms&lt;/sub&gt; at 10 Hz to 500 Hz for 15 min (all six sides tested).</td>
</tr>
</tbody>
</table>

**Table 6: Maximum Shock Specifications**

The table below shows the maximum shock specifications during operations and storage.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Maximum shock</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating</td>
<td>Six consecutively executed shock pulses in the positive and negative x, y, and z axes of 6 G for up to 11 ms.</td>
</tr>
<tr>
<td>Storage</td>
<td>Six consecutively executed shock pulses in the positive and negative x, y, and z axes (one pulse on each side of the system) of 71 G for up to 2 ms.</td>
</tr>
</tbody>
</table>
Table 7: Maximum Altitude Specifications

The table below shows the maximum altitude specifications during operations and storage.

<table>
<thead>
<tr>
<th>Maximum altitude</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating</td>
<td>3048 m (10,000 ft)</td>
</tr>
<tr>
<td>Storage</td>
<td>12,000 m (39,370 ft)</td>
</tr>
</tbody>
</table>

Table 8: Standard operating temperature

<table>
<thead>
<tr>
<th>Standard operating temperature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous operation (for altitude less than 950 m or 3117 ft).</td>
<td>10°C to 35°C (50°F to 95°F) with no direct sunlight on the equipment.</td>
</tr>
</tbody>
</table>

Table 9: Expanded operating temperature

<table>
<thead>
<tr>
<th>Expanded operating temperature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous operation</td>
<td>5°C to 40°C at 5% to 85% RH with 29°C dew point.</td>
</tr>
<tr>
<td><strong>Note:</strong> Outside the standard operating temperature (10°C to 40°C), the system can operate continuously in temperatures as low as 5°C and as high as 40°C.</td>
<td></td>
</tr>
<tr>
<td>1% of annual operating hours</td>
<td>-5°C to 45°C at 5% to 90% RH with 29°C dew point.</td>
</tr>
<tr>
<td><strong>Note:</strong> Outside the standard operating temperature (10°C to 40°C), the system can operate down to -5°C or up to 45°C for a maximum of 1% of its annual operating hours.</td>
<td></td>
</tr>
<tr>
<td>For temperatures between 40°C and 45°C, de-rate maximum allowable temperature by 1°C per 125 m above 950 m (1°F per 228 ft).</td>
<td></td>
</tr>
</tbody>
</table>

Expanded operating temperature restrictions

- Do not perform a cold startup below 5°C.
- The operating temperature specified is for a maximum altitude of 3048 m (10,000 ft).
- 105 W/4C, 115 W/6C, 130 W/8C, 140 W/14C or higher wattage processor (TDP> 140 W) are not supported.
- Redundant power supply configuration is required.
- Non-Dell qualified peripheral cards and/or peripheral cards greater than 25W are not supported.
- NVMe drives are not supported.
- Apache Pass DIMM and NVDIMM are not supported.

Table 10: Operating Temperature De-rating Specifications

The table below shows the operating temperature de-rating specifications.

<table>
<thead>
<tr>
<th>Operating temperature derating</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 35°C (95°F)</td>
<td>Maximum temperature is reduced by 1°C/300 m (1°F/547 ft) above 950 m (3,117 ft).</td>
</tr>
<tr>
<td>Operating temperature derating</td>
<td>Specifications</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>35°C to 40°C (95°F to 104°F)</td>
<td>Maximum temperature is reduced by 1°C/175 m (1°F/319 ft) above 950 m (3,117 ft).</td>
</tr>
<tr>
<td>40°C to 45°C (104°F to 113°F)</td>
<td>Maximum temperature is reduced by 1°C/125 m (1°F/228 ft) above 950 m (3,117 ft).</td>
</tr>
</tbody>
</table>
Chapter 2

Preparation

Site Selection

Read the safety instructions in your Safety, Environmental, and Regulatory Information booklet before you begin.

The following criteria should be considered when selecting a site to install the appliance:

- Before you begin, review the safety instructions located at https://www.arista.com/support/product-documentation.
- Begin installing the rails in the allotted space that is closest to the bottom of the rack enclosure.
- Other Requirements: Select a site where liquids or objects cannot fall onto the equipment and foreign objects are not drawn into the ventilation holes. Verify these guidelines are met:
  - Clearance areas to the front and rear panels allow for unrestricted cabling.
  - All front and rear panel indicators can be easily read.
  - Power cords can reach from the power outlet to the connector on the rear panel.

**Note:** All power connections must be removed to de-energize the unit.

**Note:** This unit is intended for installation in restricted access areas.

Receiving and Inspecting the Equipment

Upon receiving the appliance, inspect the shipping boxes and record any external damage. Retain packing materials if you suspect that part of the shipment is damaged; the carrier may need to inspect them.

If the boxes were not damaged in transit, unpack them carefully. Ensure that you do not discard any accessories that may be packaged in the same box as the main unit.

Inspect the packing list and confirm that you received all listed items. Compare the packing list with your purchase order. The Appendix provides a list of components included with the appliance.
Electrostatic Discharge (ESD) Precautions

Observe these guidelines to avoid ESD damage when installing or servicing the appliance.

- Assemble or disassemble equipment only in a static-free work area.
- Use a conductive work surface (such as an anti-static mat) to dissipate static charge.
- Wear a conductive wrist strap to dissipate static charge accumulation.
- Minimize handling of assemblies and components.
- Keep replacement parts in their original static-free packaging.
- Remove all plastic, foam, vinyl, paper, and other static-generating materials from the work area.
- Use tools that do not create ESD.

Setting up your system

Complete the following steps to set up your system:

1. Unpack the system.
2. Remove the I/O connector cover from the system connectors.

   Caution: While installing the system, ensure that it is properly aligned with the slot on the enclosure to prevent damage to the system connectors.

3. Install the system in the enclosure.
4. Turn on the enclosure.

   Note: Wait for the chassis to initialize before you press the power button.

5. Press the power button on the system.
   Alternatively, you can also turn on the system by using:
   - The system iDRAC.
   - The enclosure Chassis Management Controller (CMC), after the system iDRAC is configured on the CMC.

CloudVision Physical Appliance Setup

You may need the following items to perform the procedures in this section:

- Key to the system key-lock
- #1 and #2 Phillips screwdriver
- Wrist grounding strap connected to ground
- Rack mount kit instructions located in the shipping box

Before working inside your system

1. Turn off the system, including all attached peripherals.
2. Disconnect the system from the electrical outlet and disconnect the peripherals.
3. Remove the system cover.

**Front Bezel**

Complete the following tasks to remove the front bezel.

1. Unlock the key-lock at the left end of the bezel.
2. Lift the release latch next to the keylock.
3. Rotate the left end of the bezel away from the front panel.
4. Unhook the right end of the bezel and pull the bezel away from the system.

**Locate the MAC Addresses for the vEOS Router Appliance**

The information tag is a slide-out label which contains system information such as Service Tag, NIC, MAC address for your reference.

![Image of the information tag](image)

**Figure 2: Locating the MAC address of your system**

1. Information tag (front view)  
2. Information tag (back view)  
3. OpenManage Mobile (OMM) label  
4. iDRAC MAC address and iDRAC secure password label  
5. Service Tag

**Back Panel Ethernet Connections**

On the back panel of the vEOS Router Appliance, locate the Ethernet Integrated 10/100/1000 Mbps NIC connectors. The appliance has four physical 1G ports --- NIC1/2/3/4. NIC1 and NIC2 are aggregated to a bounded interface device0 in 802.3ad mode. They need to be connected to a network device supporting LACP.

The appliance has four physical 10G ports --- 10GB1/2/3/4 those are configured in SR-IOV mode. Each port is partitioned into 32 SR-IOV Virtual Functions to provide a total of 128 virtual interfaces for vEOS instances on the appliance. Each vEOS instance can be assigned up to four virtual functions/interfaces. You may optionally configure a VLAN to be used for each virtual interface. The VLAN configuration allows separation of broadcast domain for traffic in and out of each physical port.
iDRAC is an Intelligent Platform Management Interface (IPMI) that provides a GUI-based out-of-band interface for monitoring the hardware appliance. iDRAC uses NIC1 for its network connectivity using a unique MAC address.
DNS Entries

In order to manage your CloudVision cluster, it is often easier to connect to them by hostname as opposed to IP address. Fully qualified domain names (FQDNs) should be allocated to:

- Each of the CloudVision Appliance host machines.
- Each of the CloudVision Appliance iDRAC interfaces.

Contact your DNS zone administrator for assistance.

CloudVision Appliance IP Configuration

The CloudVision Appliance Host and iDRAC IP addresses can be allocated in either of two ways:

Option 1: Using an available DHCP server

- DHCP Based IP Address Setup [DHCP Based IP Address Setup].
- Web Access into Host via iDRAC.

Option 2: Manual configuration (Requires terminal connected to VGA port)

- Web Access into Host via iDRAC.

DHCP Based IP Address Setup

iDRAC IP Address

Using the iDRAC MAC from Locate the MAC Addresses for the CloudVision Appliance, input an entry into the DHCP Server for the corresponding iDRAC IP address mapping to that MAC.

Host IP Address

Using the HOST NIC1 MAC from Locate the MAC Addresses for the CloudVision Appliance, input an entry into the DHCP Server for the corresponding HOST IP address mapping to that MAC.

Turn the system on by pressing the power button located on the front of the system.

Manual IP Address Setup

Note:

Direct IP Address Setup requires a terminal connected to the VGA port of the appliance. This section can be skipped if the Host and iDRAC IP addresses have been configured with a DHCP server. See for complete back panel descriptions.

iDRAC IP Address

The iDRAC IP address can be manually configured via the host's bash shell using the **racadm** tool.

The **racadm** commands below are sequence dependent and must be entered in the following order.
1. Using the attached terminal and keyboard, log in as user “root” and with default password “arista”.

2. Disable all iDRAC related DHCP configuration.
   
   ```
   racadm set iDRAC.IPv4.DHCPEnable 0
   racadm set iDRAC.IPv4.DNSFromDHCP 0
   racadm set iDRAC.NIC.DNSDomainFromDHCP 0
   ```

3. Configure the IP network settings for the iDRAC interface.
   
   ```
   racadm set iDRAC.NIC.Enable 1
   racadm set iDRAC.IPv4.Address <iDRAC-IP>
   racadm set iDRAC.IPv4.Netmask <iDRAC-MASK>
   racadm set iDRAC.IPv4.Gateway <iDRAC-GW>
   ```

4. Configure the DNS settings for the iDRAC interface.
   
   ```
   racadm set iDRAC.IPv4.DNS1 <iDRAC-DNS1>
   racadm set iDRAC.IPv4.DNS2 <iDRAC-DNS2>
   racadm set iDRAC.NIC.DNSRacName <iDRAC-NAME>
   racadm set iDRAC.NIC.DNSDomainName <iDRAC-DOMAIN.NAME>
   ```

5. Verify the configuration by running the following command.
   
   ```
   racadm getSysInfo
   ```

**Host IP Address**

The host IP address can be manually configured by using the host's bash shell. In order for the settings to be persistent, the following configuration must be completed.

1. Configure the network settings by editing the `/etc/sysconfig/network-scripts/ifcfg-devicebr` file.
   
   ```
   DEVICE=devicebr
   NAME=devicebr
   TYPE=Bridge
   ONBOOT=yes
   BOOTPROTO=none
   IPADDR=<ip address here>
   NETMASK=<subnet mask here>
   GATEWAY=<gateway ip address here>
   DELAY=0
   USERCTL=yes
   NM_CONTROLLED=no
   ```

2. Configure the DNS settings by editing the `/etc/resolv.conf` file.
   
   ```
   nameserver <dnsServerIP-1>
   nameserver <dnsServerIP-2>
   search <domain1> <domain2>
   ```

3. Restart the networking service for the changes to take effect.
   
   ```
   service network restart
   ```
Accessing the vEOS Router Appliance

iDRAC

iDRAC is a GUI based IPMI running on a separate out of band CPU used for monitoring the hardware appliance.

Web Access into iDRAC (System IPMI)

iDRAC is supported on the following browsers:

- Mozilla Firefox
- Google Chrome

On the management station, open the Web browser and connect to the iDRAC7 using: https://<hostname or IP of iDRAC>.

For example: https://192.168.0.120.

The Login page appears
Login using the default username and password, which are:

- Username: **root**
- Password: **arista**

**Note:** Both the username and password are case sensitive.

### Updating the Host Password

You can directly update or change a password by completing the following steps.

1. Enter your login credentials.
   - Default Username: **root**
   - Default Password: **arista**
2. Running the password with no options changes the password of the account running the command. You will first be prompted to enter the account's current password:
   ```bash
   [root@cv ~]# passwd
   
   passwd: all authentication tokens updated successfully.
   [root@cv ~]#
   ```
3. You will be asked to enter a new password.
4. Enter the same password again, to verify it.
5. If the passwords match, the password is changed.
Changing the iDRAC Password

Two options are available to change the iDRAC password:
- Changing the Password through the iDRAC Web Interface.
- Changing the Password through the CLI.

Changing the Password through the iDRAC Web Interface

To change the password through the iDRAC web interface, complete the following steps.

1. Under "iDRAC Settings", go to User Authentication. The User Authentication page appears.
2. Click the User ID number of the root account. The Configure User radio button should already be checked.
3. Click Next. The page appears, showing options for changing passwords.
4. Select the Change Password checkbox.
5. Enter the new password in the New Password and Confirm New Password boxes.
6. Click Apply to apply the password change.
7. Logout, and then login through the iDRAC GUI to verify the change.

Changing the Password through the CLI

Complete the following steps to reset the iDRAC password using the racadm command line tool.

1. Telnet or SSH into the Host IP.
2. Execute the following commands to change the iDRAC password.

Web Access into Host via WOK

On the management station, open your Web browser and connect to URL: https://<CVA hostname or IP address>:8001. Login through the WOK Login Page.

iDRAC is supported on the following browsers:
- Mozilla Firefox
- Google Chrome

Default username and password:
- Username: root
- Password: arista

Note: Both the username and password are case sensitive.
Figure 6: WOK Login Page
OS Installation and Application Setup

In order to use the vEOS router, use the following link to access the vEOS Router Configuration Guide to create vEOS routers. https://www.arista.com/en/support/product-documentation

Installing the Base CVA OS

Note: Complete the following steps to re-image the appliance to the factory reset. You will lose all existing configurations and vEOS routers.

To install the base CVA OS image, complete the following steps.

1. Create the boot image.
   Download the bootable self installing ISO image from: http://dist/release/cva/2.1.0/RC3/cva_base_2.1.0.iso.

2. Create a bootable flash drive.
   - Insert a flash drive and locate it:

     ```
     [root@cv ~]# lsblk
     NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
     sda 8:0  0 205G  0 disk
     __sda1 8:1  0  500M  0 part /boot
     __sda2 8:2  0 204.5G  0 part
     __centos_cvÂroot 253:0  0  50G  0 lvm /
     __centos_cvÂswap 253:1  0 20.5G  0 lvm [SWAP]
     __centos_cvÂhome 253:2  0 134G  0 lvm /home
     sdb 8:16  0  3.4T  0 disk /data
     sdc 8:32  1 14.6G  0 disk
     __sdc1 8:33  1  7.5G  0 part
     ```
   - Format the flash drive.

     ```
     sudo mkfs.vfat /dev/sdc
     ```
   - Copy the downloaded ISO image to the flash drive:

     ```
     dd if=<path_to_iso> of=<flash_drive> status=progress
     ```

3. Insert the flash drive and power on the server.
4. Remove the flash drive after completing the installation.
Installing the vEOS Router Appliance

Once the base CVA OS image is installed, complete the following steps to build the vEOS router appliance.

1. Acquire the artifacts to build the vEOS router appliance.
   - vEOS router appliance manufacturing tools: 
     http://dist/release/cva/2.1.0/RC4/arista-dca-200-veos-2.1.0-mfg.tgz

2. Inflate the vEOS router appliance manufacturing tools under /data/tools/.

   ```bash
   %mkdir /data/imaging
   mkdir /data/tools
   cd /data/imaging
   %tar -zxf arista-dca-200-veos-2.1.0-mfg.tgz
   %mv dca-200-veos-setup-vm.py /data/tools/
   %mv <Downloaded_EOS.qcow2_image_from_above> /data/tools/
   ```

3. Run the installer:

   ```bash
   %data/imaging/dca-200-veos-setup.sh
   ```

   This re-boots the box at the end.

4. Run the post-install test:

   ```bash
   %data/imaging/dca-200-veos-test.sh
   ```

5. Test the NICs cards:
   - Connect the 4x10Gb data ports using the supported Arista copper or fiber transceivers. Make sure to connect Port 1 to Port 3 and Port 2 to Port 4. Port 1 is first port towards the 1G management port side.
   - Run the NIC test script:

     ```bash
     %data/imaging/dca-200-veos-test-nics.py -a -i /data/tools/EOS.qcow2
     ```

     - Remove the transceivers before shipping the box.

   **Note:** Make sure to leave VM launcher script dca-200-veos-setup-vpm.py under /data/tools/ as it will be used by customers to dynamically create VEOS VMs on-site.
Status Indicators

Topics:

- LCD Panel Features
- Status LED indicators
- iDRAC Direct LED indicator codes
- NIC Indicator Codes
- Power Supply Unit Indicator Codes

LCD Panel Features

The system's LCD panel provides system information and status and error messages to indicate if the system is operating correctly or if the system needs attention.

The LCD back-light lights blue during normal operating conditions.

When the system needs attention, the LCD lights amber and displays an error code followed by descriptive text.

Note: If the system is connected to a power source and an error is detected, the LCD lights amber regardless of whether the system is turned on or off.

The LCD back-light turns OFF when the system is in standby mode and can be turned on by pressing either the Select, Left, or Right button on the LCD panel.

The LCD back-light remains OFF if the LCD messaging is turned off through the iDRAC utility, the LCD panel, or other tools.

Figure 7: LCD Panel Features
Table 11: LCD Panel Features Description

<table>
<thead>
<tr>
<th>Item</th>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Left</td>
<td>Moves the cursor back in one-step increments.</td>
</tr>
<tr>
<td>2</td>
<td>Select</td>
<td>Selects the menu item highlighted by the cursor.</td>
</tr>
<tr>
<td>3</td>
<td>Right</td>
<td>Moves the cursor forward in one-step increments. During message scrolling: • Press once to increase scrolling speed • Press again to return to the default scrolling speed • Press again to repeat the cycle • Press again to stop</td>
</tr>
</tbody>
</table>

Status LED indicators

Note: The indicators display solid amber if any error occurs.

Table 12: Status LED Indicators and Descriptions

Item 1 is the health indicator that indicates the health status of the system. The indicator turns solid blue if the system is turned on and in good health. The indicator flashes amber if the system is turned on or in standby, and if any issue occurs (for example, a failed fan or drive). Item 2 is the drive indicator that flashes amber if an error occurs related to drive. Item 3 is the electrical indicator that flashes amber if an electrical error occurs (for example, voltage out of range, or a failed power supply unit or voltage regulator). Item 4 is the temperature indicator that flashes amber if a thermal error occurs (for example, temperature out of range or fan failure). Item 5 is the memory indicator that flashes amber if a memory error occurs. Item 6 is the PCIe indicator that flashes amber if an error occurs related to PCIe card.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
<th>Condition</th>
<th>Corrective action</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Drive indicator" /></td>
<td>Drive indicator</td>
<td>The indicator turns solid amber if there is a drive error.</td>
<td>• Check the System Event Log to determine if the drive has an error.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Run the appropriate Online Diagnostics test. Restart the system and run embedded diagnostics (ePSA).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• If the drives are configured in a RAID array, restart the system, and enter the host adapter configuration utility program.</td>
</tr>
<tr>
<td><img src="image" alt="Temperature indicator" /></td>
<td>Temperature indicator</td>
<td>The indicator turns solid amber if the system experiences a thermal error (for example, the ambient temperature is out of range, or there is a fan failure).</td>
<td>Ensure that none of the following conditions exist:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• A cooling fan has been removed or has failed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• System cover, air shroud, memory module blank, or back filler bracket is removed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Ambient temperature is too high.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• External airflow is obstructed.</td>
</tr>
<tr>
<td><img src="image" alt="Electrical indicator" /></td>
<td>Electrical indicator</td>
<td>The indicator turns solid amber if the system experiences an electrical error (for example, voltage out of range, or a failed power supply unit (PSU) or voltage regulator).</td>
<td>Check the System Event Log or system messages for the specific issue. If it is due to a problem with the PSU, check the LED on the PSU. Reseat the PSU.</td>
</tr>
<tr>
<td>Icon</td>
<td>Description</td>
<td>Condition</td>
<td>Corrective action</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
<td>-----------</td>
<td>------------------</td>
</tr>
<tr>
<td><img src="image_url" alt="Memory indicator" /></td>
<td>Memory indicator</td>
<td>The indicator turns solid amber if a memory error occurs.</td>
<td>Check the System Event Log or system messages for the location of the failed memory. Reseat the memory module.</td>
</tr>
<tr>
<td><img src="image_url" alt="PCIe indicator" /></td>
<td>PCIe indicator</td>
<td>The indicator turns solid amber if a PCIe card experiences an error.</td>
<td>Restart the system. Update any required drivers for the PCIe card. Reinstall the card.</td>
</tr>
</tbody>
</table>

**iDRAC Direct LED indicator codes**

The iDRAC Direct LED indicator lights up to indicate that the port is connected and is being used as a part of the iDRAC subsystem.

You can configure iDRAC Direct by using a USB to micro USB (type AB) cable, which you can connect to your laptop or tablet. The following table describes iDRAC Direct activity when the iDRAC Direct port is active:

**Table 13: iDRAC Direct LED Indicator Codes**

The iDRAC Direct LED indicator codes table describes the iDRAC status when it is solid green, flashing green, and when it is turned off.

<table>
<thead>
<tr>
<th>iDRAC Direct LED indicator code</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid green for two seconds</td>
<td>Indicates that the laptop or tablet is connected.</td>
</tr>
<tr>
<td>Flashing green (on for two seconds and off for two seconds)</td>
<td>Indicates that the laptop or tablet connected is recognized.</td>
</tr>
<tr>
<td>Turns off</td>
<td>Indicates that the laptop or tablet is unplugged.</td>
</tr>
</tbody>
</table>

**iDRAC Quick Sync 2 indicator codes**

iDRAC Quick Sync 2 module (optional) is located on the left control panel of your system.

![iDRAC Quick Sync 2 Indicator](image_url)

**Figure 8: iDRAC Quick Sync 2 Indicators**

**Table 14: iDRAC Quick Sync 2 Indicators and Descriptions**

This table describes the Quick Sync status indicators. The indicator statuses are Off, which is the default state, Solid white, blinks white rapidly, blinks white slowly, blinks white five times rapidly and then turns off, solid amber, and blinking amber.
### Corrective action

<table>
<thead>
<tr>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicates that the iDRAC Quick Sync 2 feature is turned off. Press the iDRAC Quick Sync 2 button to turn on the iDRAC Quick Sync 2 feature.</td>
</tr>
<tr>
<td>If the LED fails to turn on, reseat the left control panel flex cable and check.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicates that iDRAC Quick Sync 2 is ready to communicate. Press the iDRAC Quick Sync 2 button to turn off.</td>
</tr>
<tr>
<td>If the LED fails to turn off, restart the system.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicates data transfer activity.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicates that firmware update is in progress.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicates that the iDRAC Quick Sync 2 feature is disabled.</td>
</tr>
<tr>
<td>Check if iDRAC Quick Sync 2 feature is configured to be disabled by iDRAC.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicates that the system is in fail-safe mode.</td>
</tr>
<tr>
<td>Restart the system.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indicates that the iDRAC Quick Sync 2 hardware is not responding properly.</td>
</tr>
<tr>
<td>Restart the system.</td>
</tr>
</tbody>
</table>

### NIC Indicator Codes

Each NIC on the back of the system has indicators that provide information about the activity and link status. The activity LED indicator indicates if data is flowing through the NIC, and the link LED indicator indicates the speed of the connected network.

![NIC Indicator Codes](image)

1. Link LED indicator
2. Activity LED indicator

#### Figure 9: NIC Indicator Codes

#### Table 15: NIC Indicator Codes

<table>
<thead>
<tr>
<th>Status</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Link and activity indicators are off.</td>
<td>The NIC is not connected to the network.</td>
</tr>
<tr>
<td>Status</td>
<td>Condition</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Link indicator is green, and activity indicator is</td>
<td>The NIC is connected to a valid network at its maximum port speed</td>
</tr>
<tr>
<td>blinking green.</td>
<td>and data is being sent or received.</td>
</tr>
<tr>
<td>Link indicator is amber and activity indicator is</td>
<td>The NIC is connected to a valid network at less than its maximum port</td>
</tr>
<tr>
<td>blinking green.</td>
<td>speed and data is being sent or received.</td>
</tr>
<tr>
<td>Link indicator is green, and activity indicator is</td>
<td>The NIC is connected to a valid network at its maximum port speed</td>
</tr>
<tr>
<td>off.</td>
<td>and data is not being sent or received.</td>
</tr>
<tr>
<td>Link indicator is amber and activity indicator is</td>
<td>The NIC is connected to a valid network at less than its maximum port</td>
</tr>
<tr>
<td>off.</td>
<td>speed and data is not being sent or received.</td>
</tr>
<tr>
<td>Link indicator is blinking green and activity is</td>
<td>NIC identify is enabled through the NIC configuration utility.</td>
</tr>
<tr>
<td>off.</td>
<td></td>
</tr>
</tbody>
</table>

### Power Supply Unit Indicator Codes

AC power supply units (PSUs) have an illuminated translucent handle that serves as an indicator. The indicator shows whether power is present or if a power fault has occurred.

1. AC PSU status indicator/handle.

**Figure 10: AC PSU Status Indicator**

**Table 16: AC PSU Status Indicator Codes**

This table describes the AC PSU status indicators and what condition is the PSU when the power indicator light is green, blinking green, blinking amber, and when it is not illuminated.

<table>
<thead>
<tr>
<th>Power indicator codes</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>A valid power source is connected to the PSU and the PSU is operational.</td>
</tr>
<tr>
<td>Blinking amber</td>
<td>Indicates a problem with the PSU.</td>
</tr>
<tr>
<td>Not illuminated</td>
<td>Power is not connected to the PSU.</td>
</tr>
<tr>
<td>Blinking green</td>
<td>When the firmware of the PSU is being updated, the PSU handle blinks green.</td>
</tr>
</tbody>
</table>

---

Caution: Do not disconnect the power cord or unplug the PSU when updating firmware. If firmware update is interrupted, the PSUs do not function.
<table>
<thead>
<tr>
<th>Power indicator codes</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blinking green and turns off</td>
<td>When hot-plugging a PSU, the PSU handle blinks green five times at a rate of 4 Hz and turns off. This indicates a PSU mismatch with respect to efficiency, feature set, health status, or supported voltage.</td>
</tr>
</tbody>
</table>

**Caution:** If two PSUs are installed, both the PSUs must have the same type of label; for example, Extended Power Performance (EPP) label. Mixing PSUs from previous generations of PowerEdge servers is not supported, even if the PSUs have the same power rating. This results in a PSU mismatch condition or failure to turn the system on.

**Caution:** When correcting a PSU mismatch, replace only the PSU with the blinking indicator. Swapping the PSU to make a matched pair can result in an error condition and unexpected system shutdown. To change from a high output configuration to a low output configuration or vice versa, you must turn off the system.

**Caution:** AC PSUs support both 240 V and 120 V input voltages with the exception of Titanium PSUs, which support only 240 V. When two identical PSUs receive different input voltages, they can output different wattages, and trigger a mismatch.

**Caution:** If two PSUs are used, they must be of the same type and have the same maximum output power.
Appendix B

Rack Installation

1. Routing the Cables
   a. Locate the outer brackets on the interior sides of both rack flanges (1).
   b. Bundle the cables gently, pulling them clear of the system connectors to the left and right sides (2).
   c. Thread the hook and loop straps through the tooled slots on the outer brackets on each side of the system to secure the cable bundles (3).

2. Removing the System From the Rack
   a. Locate the lock levers on the sides of the inner rails (1).
   b. Unlock each lever by rotating it up to its release position (2).
   c. Grasp the sides of the system firmly and pull it forward until the rail standoffs are at the front of the J-slots. Lift the system up and away from the rack and place it on a level surface (3).
3. Installing the System in a Rack

   a. Pull the inner slide rails out of the rack until they lock into place (1).
   b. Locate the rear rail standoff on each side of the system and lower them into the rear J-slots on the slide assemblies (2).
   c. Rotate the system downward until all the rail standoffs are seated in the J-slots (3).
   d. Push the system inward until the lock levers click into place. Press the slide-release lock buttons on both rails and slide the system into the rack (4).

4. Installing and Removing Tooled Rails (Threaded Hole Racks)

   a. Remove the pins from the front and rear mounting brackets using a flat-tipped screwdriver (1).
   b. Pull and rotate the rail latch sub-assemblies to remove them from the mounting brackets (2).
   c. Attach the left and right mounting rails to the front vertical rack flanges using two pairs of screws (3).
   d. Slide the left and right back brackets forward against the rear vertical rack flanges and attach them using two pairs of screws (4).
5. Installing and Removing Tool-less Rails (Square Hole or Round Hole Racks)
   a. Position the left and right rail end pieces labeled FRONT facing inward and orient each end piece to seat in the holes on the front side of the vertical rack flanges (1).
   b. Align each end piece in the bottom and top holes of the desired U spaces (2).
   c. Engage the back end of the rail until it fully seats on the vertical rack flange and the latch clicks into place. Repeat these steps to position and seat the front end piece on the vertical rack flange (3).
   d. To remove the rails, pull the latch release button on the end piece midpoint and unseat each rail (4).

6. Identifying the Rail Kit Contents
   Locate the components for installing the rail kit assembly:
   • Two sliding rail assemblies (1)
   • Two hook and loop straps (2)

7. Engaging and Releasing the Slam Latch
Note:
For systems not equipped with slam latches, secure the system using screws, as described in Step C of this procedure.

a. Facing the front, locate the slam latch on either side of the system (1).
b. The latches engage automatically as the system is pushed into the rack and are released by pulling up on the latches (2).
c. To secure the system for shipment in the rack or for other unstable environments, locate the hard-mount screw under each latch and tighten each screw with a #2 Phillips screwdriver (3).
## Front Panel Features and Indicators

![CloudVision appliance (front view)](image)

### Description

<table>
<thead>
<tr>
<th>Number</th>
<th>Ports, Panels, and Slots</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1      | Left control panel       | Contains the system health and system ID, status LED, and the iDRAC Quick Sync 2 (wireless) indicator.  
 Note: The iDRAC Quick Sync 2 indicator is available only on certain configurations.  
 Status LED: Enables you to identify any failed hardware components. There are up to five status LEDs and an overall system health LED (Chassis health and system ID) bar.  
 Quick Sync 2 (wireless): Indicates a Quick Sync enabled system. The Quick Sync feature is optional. This feature allows management of the system by using mobile devices. This feature aggregates hardware or firmware inventory and various system level diagnostic and error information that can be used in troubleshooting the system. |
| 2      | Drive slots              | Enable you to install drives that are supported on your system. |
| 3      | Optional optical drive   | One optional slim SATA DVD-ROM drive or DVD+/-RW drive. |
| 4      | VGA port                 | Enables you to connect a display device to the system. |
| 5      | Optional USB port        | USB 2.0 compliant USB port. |
| 6      | Right control panel      | Contains the power button, USB port, iDRAC Direct micro port, and the iDRAC Direct status LED. |
| 7      | Information Tag          | The Information Tag is a slide-out label panel that contains system information such as Service Tag, NIC, MAC address, and so on. If you have opted for the secure default access to iDRAC, the Information tag also contains the iDRAC secure default password. |
Topics:

- Left control panel view
- Right Control Panel View

Left control panel view

![Left control panel view](image)

**Figure 12: Left control panel with optional iDRAC Quick Sync 2.0 indicator**

<table>
<thead>
<tr>
<th>Item</th>
<th>Indicator, button, or connector</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Status LED indicators</td>
<td>N/A</td>
<td>Indicate the status of the system.</td>
</tr>
<tr>
<td>2</td>
<td>System health and system ID indicator</td>
<td><img src="image" alt="i" /></td>
<td>Indicates the system health.</td>
</tr>
<tr>
<td>3</td>
<td>iDRAC Quick Sync 2 wireless indicator (optional)</td>
<td><img src="image" alt="wireless" /></td>
<td>Indicates if the iDRAC Quick Sync 2 wireless option is activated. The Quick Sync 2 feature allows management of the system using mobile devices. This feature aggregates hardware/firmware inventory and various system level diagnostic/error information that can be used in troubleshooting the system. You can access system inventory, Lifecycle Controller logs or system logs, system health status, and also configure iDRAC, BIOS, and networking parameters. You can also launch the virtual Keyboard, Video, and Mouse (KVM) viewer and virtual Kernel-based Virtual Machine (KVM), on a supported mobile device.</td>
</tr>
</tbody>
</table>
Right Control Panel View

![Right Control Panel View](image)

**Figure 13: Right Control Panel**

Item 1 is the power button, indicates if the system is turned on or off. Item 2 is the USB port, enables you to connect USB devices to the system. Item 3 is the iDRAC Direct LED, indicates that the iDRAC Direct port is connected. Item 4 is the iDRAC Direct port, enables you to access the iDRAC direct features.

<table>
<thead>
<tr>
<th>Item</th>
<th>Indicator or button</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power button</td>
<td><img src="image" alt="Power button icon" /></td>
<td>Power ON, power OFF.</td>
</tr>
<tr>
<td>2</td>
<td>USB port</td>
<td><img src="image" alt="USB port icon" /></td>
<td>The USB ports are 4-pin, 2.0-compliant. This port enables you to connect USB devices to the system.</td>
</tr>
<tr>
<td>3</td>
<td>iDRAC Direct LED</td>
<td>N/A</td>
<td>The iDRAC Direct LED indicator lights up to indicate that the iDRAC Direct port is actively connected to a device.</td>
</tr>
<tr>
<td>4</td>
<td>iDRAC Direct port (Micro-AB USB)</td>
<td><img src="image" alt="iDRAC Direct port icon" /></td>
<td>The iDRAC Direct (Micro-AB USB) port enables you to access the iDRAC Direct (Micro-AB) features.</td>
</tr>
</tbody>
</table>
Appendix D

Back Panel Features and Indicators

Figure 14: CloudVision Appliance (back view)

Table 17: Back-panel Features and Indicators

<table>
<thead>
<tr>
<th>Number</th>
<th>Indicator, Button, or Connector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Serial connector</td>
<td>Allows you to connect a serial device to the system.</td>
</tr>
<tr>
<td>2</td>
<td>iDRAC port (optional)</td>
<td>Dedicated management port on the iDRAC ports card.</td>
</tr>
<tr>
<td>3</td>
<td>Ethernet connector 1</td>
<td>Integrated 10/100/1000 Mbps NIC connector.</td>
</tr>
<tr>
<td>4</td>
<td>10G Port 1</td>
<td>Data Port 1</td>
</tr>
<tr>
<td>5</td>
<td>10G Port 2</td>
<td>Data Port 2</td>
</tr>
<tr>
<td>6</td>
<td>10G Port 3</td>
<td>Data Port 3</td>
</tr>
<tr>
<td>7</td>
<td>10G Port 4</td>
<td>Data Port 4</td>
</tr>
<tr>
<td>8</td>
<td>Power supply (PSU2)</td>
<td>550W redundant AC power supply.</td>
</tr>
<tr>
<td>9</td>
<td>Power supply (PSU1)</td>
<td>550W redundant AC power supply.</td>
</tr>
<tr>
<td>10</td>
<td>Ethernet connector 4</td>
<td>Port not used by vEOS launcher scripts.</td>
</tr>
<tr>
<td>11</td>
<td>Ethernet connector 3</td>
<td>Port not used by vEOS launcher scripts.</td>
</tr>
<tr>
<td>Number</td>
<td>Indicator, Button, or Connector</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>12</td>
<td>Ethernet connector 2</td>
<td>Integrated 10/100/1000 Mbps NIC connector.</td>
</tr>
<tr>
<td>13</td>
<td>USB connector</td>
<td>Allow you to connect USB devices to the system. The port is USB 3.0-compliant.</td>
</tr>
<tr>
<td>14</td>
<td>USB connector</td>
<td>Allow you to connect USB devices to the system. The port is USB 2.0-compliant.</td>
</tr>
<tr>
<td>15</td>
<td>Video connector</td>
<td>Allows you to connect a VGA display to the system.</td>
</tr>
<tr>
<td>16</td>
<td>System identification connector</td>
<td>Connects the optional system status indicator assembly through the optional cable management arm.</td>
</tr>
<tr>
<td>17</td>
<td>System identification button</td>
<td>The identification buttons on the front and back panels can be used to locate a particular system within a rack. When one of these buttons is pressed, the system status indicator on the back flashes until one of the buttons is pressed again. Press to toggle the system ID on and off. If the system stops responding during POST, press and hold the system ID button for more than five seconds to enter BIOS progress mode. To reset the iDRAC (if not disabled in F2 iDRAC setup) press and hold the button for more than 15 seconds.</td>
</tr>
</tbody>
</table>
Tools to Manage and Update Images

Upgrade the Host Image

Arista provides an ISO with all updated packages and a tool to mount the images ISO and upgrade the system.

Note: This process may reboot the CVA.

To upgrade the Host image, complete the following steps.

2. Download the mfg tgz tools (arista-cv-<version>-mfg.tgz).
3. Extract `tar -xvf arista-cv-<version>-mfg.tgz`. This ensures you have the new version of `upgradeCva.py`.
4. Download the update ISO.
5. Run the upgrade CV appliance tool.

```
./upgradeCva.py -i <Arista Cva Update Iso>
```

$ ./upgradeCva.py -h
usage: upgradeCva.py [-h] [-i ISO] [--fixNw] [-vm] [-f FORCE]

Upgrade CVA

optional arguments:
  -h, --help            show this help message and exit
  -i ISO, --iso ISO     Path to ISO
  --fixNw               Fixes CVA network config to what is expected Does not touch devicebr config.
  -vm, --vm             Used for CVA VM emulation - NOT for H/W CVA
  -f FORCE, --force     Forces the command. Skips user interaction
Host Console Access via iDRAC

The console redirect to serial over SSH, use an SSH client and complete the following steps.

1. SSH into the iDRAC and login with the root user and iDRAC password. You will get a login similar to admin->
   This indicates you are in the iDRAC SSH console.

2. Execute the following commands:
   
   ```
   racadm set BIOS.SerialCommSettings.SerialComm OnConRedirAuto
   racadm set BIOS.SerialCommSettings.SerialPortAddress Serial1Com2Serial2Com1
   racadm jobqueue create BIOS.Setup.1-1
   racadm serveraction powercycle
   ```

   The iDRAC should now be configured to access serial console.

3. From the iDRAC SSH interface run the command below to access the serial console:
   ```
   console com2
   ```

4. To return to the iDRAC interface and disconnect from the console the default escape sequence is `^\` (CTRL+\) or simply close the SSH window.
SNMP Monitoring Support

To locate the SNMP support page, go to **iDRAC Settings > Network > Services.**

![SNMP page](image)

Figure 15: SNMP page
RoHS Declaration Statements

For Taiwan BSMI RoHS Table, go to https://www.arista.com/assets/data/pdf/AristaBSMIRoHS.pdf.