Quick Start for Hardware Installation

Avaya C360 Converged Stackable Switches

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Chapter 1: Before you Start

Before you install your Avaya C360 Converged Stackable Switch, prepare all the information, resources, and tools that you need during the installation process. Good preparation ensures a smooth installation with the least amount of interruption.

WARNING:
ONLY TRAINED AND QUALIFIED PERSONNEL SHOULD BE ALLOWED TO INSTALL OR REPLACE THIS EQUIPMENT.

SOLAMENTE PERSONAL CALIFICADO Y ENTRENADO DEBE INSTALAR O REEMPLAZAR ESTE EQUIPO.

WARNING:
EQUIPMENT MUST BE CONNECTED TO AN EARTHED MAINS SOCKET-OUTLET.

EL EQUIPO SE DEBE CONECTAR A UNA TOMA DE TIERRA PRINCIPAL.

Gathering Information

Defining the Installation

The C360 can be installed in several different configurations. Before you start the installation, find out what configuration is needed for your site.

Preparing Contacts you might need

Ensure that you have the names and phone numbers of any people you might need to contact at the installation site. This list might include the people responsible for:

- Network architecture
- System administration
- Site security
- Site deliveries

Preparing Installation Files

Ensure that you load the latest versions of the firmware file for the C360. You can download the firmware file needed for your installation from the Avaya Support Web site, at http://support.avaya.com.

Preparing Needed Tools

Prepare the tools you need to mount the C360, according to the Table 1:

Table 1: Mounting Tools

If you need to mount on...	Prepare these tools
Rack or wall	Phillips head screwdriver
Flat wall	screws to fasten C360 to the wall
Uneven wall	• 16.3" x 18.3" (415 x 465 mm) plywood board 0.8" (20 mm) thick wood screws • screws to fasten the C360 to the wall

Choosing the Installation Site

Ensure that the location where you install your C360 fulfills the following requirements:

- Cables are away from sources of electrical noise such as:
  - radio transmitters
  - broadcast amplifiers
  - power lines
  - fluorescent light fixtures
- Water or moisture cannot enter the chassis.
- Air can flow freely around all sides of the chassis.
- The vents on the sides of the chassis are not blocked.

- The environmental conditions match the requirements listed in Table 2.

Table 2: Environmental Requirements

Condition	Acceptable values
C363T, C363T-PWR, C364T, C364T-PWR	
Ambient temperature	32^{o} to 104^{o}F (0^{o} to 40^{o}C)
Relative humidity	5-95% non-condensing
C364T NEBS	According to NEBS standard
Weight support	10.8-15 lbs (4.9-6.8 kg)

- The power source matches the specifications shown in Table 3:

Table 3: Power Requirements

AC Input voltage	100 to 240 VAC, 50 to 60 Hz
Power consumption • C363T • C363T-PWR • C364T • C364T (NEBS) • C364T-PWR	 • 60 W • 420 W • 90 W • 90 W • 760 W
AC Input current • C363T • C363T-PWR • C364T • C364T (NEBS) • C364T-PWR	 • 1.3 A • 4.2 A • 1.3 A • 1.3 A • 7.6 A
DC Input voltage (C364T NEBS only)	-36 to -60 VDC
DC Input current (C364T NEBS only)	2 A

See the *Installation and Configuration for the Avaya C360 Converged Stackable Switches,* 10-601563, for additional information on environmental requirements.

Chapter 2: Unpack the Device

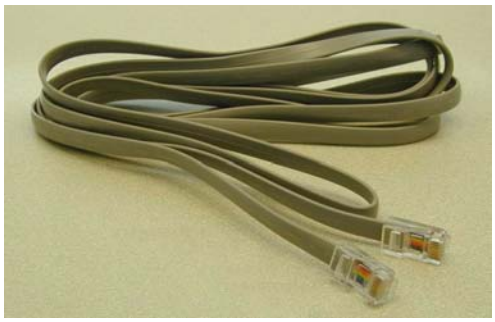
CAUTION:

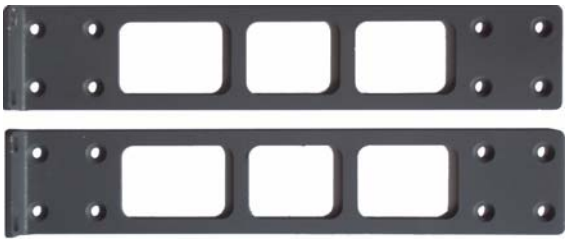
Wear an anti-static wrist ground strap whenever you handle components of a C360. Connect the strap to an approved ground, such as an unpainted metal surface.

Equipment

Open the box that contains the C360, and ensure that it contains the following components and accessories:

- One Avaya C360 Switch.
- One Accessory Kit that contains:

One 115V 3 Wire Power Cable	
One RJ45 to RJ45 Flat Cable	

One RJ45 to DB9F Adapter	
One DB25M Adapter	
Two (2) 19" Rackmount Brackets for C363T, C364T, C363T-PWR, C364T-PWR or for C364T NEBS	 

Nine (9) M4 Flat-Head Screws for C363T, C364T, C363T-PWR, C364T-PWR or 17 M4 Flat Head Screws for C364T NEBS	 
Four (4) 5/16" Round Head Screws	
Four (4) Washers	
Four (4) stand-off feet	

Documentation

- Avaya C360 Documentation and Utilities CD
- Release Notes
- Quick Start for Hardware Installation Avaya C360 Converged Stackable Switches (this document), 10-601563.

Chapter 3: Mount the Device

You can mount the C360 in a rack or on the wall.

Rack Mounting (Optional)

The C360 chassis fits in most standard 19-inch racks. It is 1U (44.45 mm, 1.75”) high.

You can mount the Avaya C360 in a standard 19" rack either in “front-mount” or “mid-mount” positions using the brackets supplied with the chassis.

The brackets are symmetric: you can fix either bracket on either side.

Figure 1 shows the two available rack mounting positions:

Figure 1: Front and Mid-Mount Positions

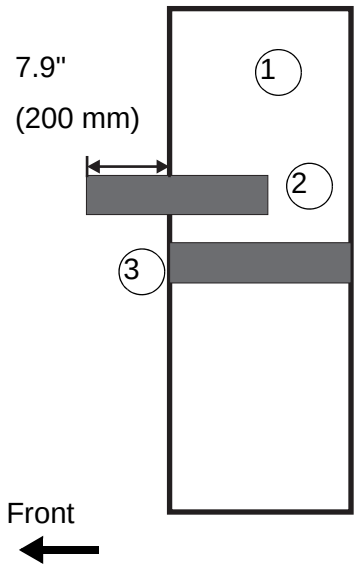


Figure notes:

1. **Equipment rack**
2. **Mid-mount position**
3. **Front mount position**

Before you Install the C360 in a Rack

- When installing C360 in a rack, ensure that the equipment is positioned such that it will not cause the rack to become unstable or tip over.

- Ensure that the combination of equipment in the rack will not cause an overload or overcurrent condition on the power strip being used and/or the customer's branch circuit.
- The C360 units weigh a maximum of 15 pounds (6.8 kg). Be careful when installing or removing the C360 product from the rack.
- If a power strip is being used in the rack, ensure that it has a reliable earth connection. If the C360 equipment will be plugged directly into a wall outlet, ensure that there is a reliable ground connection at the outlet.
- Ensure that the internal rack ambient temperature is within the operating specification limits of the C360.
- Ventilation for the C360 is from side to side. Ensure that there is adequate space on each side of the C360 equipment when installed in the rack to allow sufficient airflow.

Place the C360 in the rack as follows:

1. Position the brackets on the C360 as shown in Figure 2, Figure 3 or Figure 4, accoring to the model.

Figure 2: C360 Rack Mounting (except C364T NEBS)

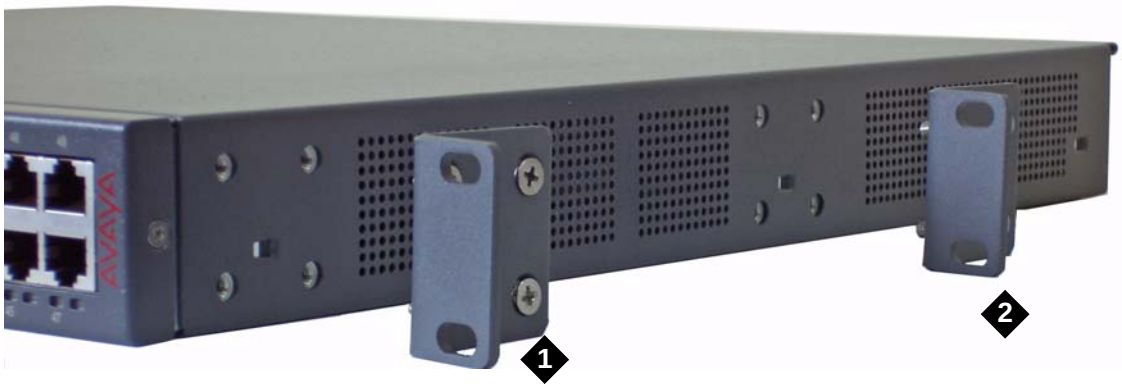


Figure notes:

1. Front mount position **2. Mid-mount position**

Figure 3: C360 Rack Mounting - Front Mount (C364T NEBS only)



Figure 4: C360 Rack Mounting - Mid Mount (C364T NEBS only)



2. Firmly attach the brackets to the chassis with the screws provided.
   - Use **four** screws to attach each bracket to the switch for non-NEBS switches.
   - Use **eight** screws to attach each bracket to the switch for the C364T NEBS switch.
3. Position the switch in the rack.
4. Fasten the switch in the rack with the screws provided.

Wall Mounting (Optional)

Note:

Do not mount the C364T NEBS on a wall.

You can fix the C360 to the wall as follows:

CAUTION:

Ensure that the wall and screws can support the weight of the C360 and any installed modules. The maximum weight of a C360 switch is 15 lb. (6.8 kg)

CAUTION:

You **must** mount the C360 with the ventilation holes facing left and right and the front panel facing up.

1. Attach the brackets to the C360 as shown in Figure 5.You can attach the brackets to face either the top or the bottom of the unit, depending whether you want the top panel or bottom panel of the unit to face the wall.

Figure 5: C360 Wall Mounting



2. Place the unit on the wall.
3. Secure the unit to the wall using two screws on each side. Do not overtighten the screws.

CAUTION:

Ensure that ventilation holes are not obstructed.

Chapter 4: Power Up

Connecting the C360 to the main electrical supply provides power to the switch and for Power over Ethernet (PoE).

WARNING:
To isolate the switch completely, you must disconnect **all** power connections (AC plug, DC power and DC BUPS power).

ADVERTENCIA:
Para aislar el equipo totalmente desconecte **todas** las conexiones de energía (Enchufe de CA, fuente de CC y fuente de CC del BUPS)

Note:
The C/S: and SW versions on your C360 switches may differ from those shown in Figure 6.

Figure 6: Avaya C360 Back Panel



Figure notes:

1. **AC Input**
2. **DC Input**

Connecting to an AC Power Supply

AC Power Cable

The C360 switch is supplied with a North American power cordset. Below are guidelines that should be used when obtaining and/or defining a different cordset to be used with the C360. The cordsets should be further verified for safety requirements of the particular application by a safety and regulatory professional:

For 200 to 240V applications, the cord must be VDE Certified or Harmonized (HAR), rated 250V, 3-conductor (3rd wire ground), 1.0 mm^2 minimum conductor size. The cord is to be terminated at one end to a VDE Certified/CE Marked IEC 60320, sheet C13 type connector rated 10A, 250V and the other end to a 3-conductor grounding type attachment plug rated at a minimum of 10A, 250V and a configuration specific for the region/country in which it will be used. The attachment plug must bear the safety agency certifications mark(s) for the region/country of installation.

- For North American installations, a UL-Listed and CSA Certified 15A branch circuit protective device must be provided in the building AC mains wiring installation for branch circuit protection.
- For other installations, a suitable and certified 10A branch protective device must be provided in the building AC mains wiring installation.

Tip:

You may order certain cordsets from Avaya.

The C360 is rated 100-240 V~, 50-60 Hz. The maximum input current depends on the specific C360 model

1. Insert the AC power cord into the power inlet in the back of the unit.
2. Insert the AC plug into the AC power supply.
   - The unit powers up.
   - The Avaya C360 performs a self test procedure.
3. Connect the external DC power supply (if available).

Connecting to a DC Power Source (C364T NEBS Only)

The C364T NEBS is rated -36 to -60 VDC, 2A.

CAUTION:
A UL-Listed and CSA-Certified branch circuit protective device of up to 20A must be provided in the building DC mains wiring installation for branch circuit protection.

CAUTION:
Always connect the ground wire first and disconnect it last.

Figure 7: Avaya C360 DC Input Terminal Block



Figure notes:

1. **Protective plastic cover**
2. **BUPS DC input terminals**
3. **Grounding post**

- The terminals are marked with ⏚, “+” and “-“.
- The size of the two screws in the terminal block is M4.
- The pitch between each screw is 9.5mm.

1. Remove the protective plastic cover over the DC inputs by unscrewing the two Phillips screws.

   WARNING:
   The conductors to be used for connecting the DC power supply to the C360 must be UL Recognized and CSA Certified and be a minimum of 16 AWG or have a cross-sectional area of 1.0mm^2.

   ADVERTENCIA:
   Los conductores que se utilizarán para conectar la fuente de alimentación externa con el C360 deben ser Reconocidos por UL, Certificados por CSA y ser como mínimo de 16 AWG o tener un área de sección transversal de 1.0 mm^2.

2. Connect the power cable to the terminals on the C360 and to the external DC power supply in the following sequence:

1. Ground wire to grounding post
2. Positive to positive
3. Negative to negative

WARNING:
Make sure that you connect the cables between the C360 and the external power supply correctly:

1. Positive to positive
2. Negative to negative

ADVERTENCIA:
Asegúrese que las polaridades de los cables entre el C360 y la fuente de alimentación externa estén conectados correctamente:

- Positivo ("+") a Positivo ("+")
- Negativo ("-") a Negativo ("-")

3. Replace the plastic cover by aligning the holes with the screw receptacles and replacing the two Phillips screws.

Connecting a BUPS

Note:

You cannot connect the C360 to a DC power supply and BUPS simultaneously.

If you deploy a BUPS with the C360, the Powerstax (formerly known as APC (Advanced Power Conversion PLC)) Front End AC-DC Power Shelf (model R2400A111) with Powerstax 800W PSUs (models A0800-085-545-CA1) are to be used.The applied voltage at the C360 BUPS DC terminal block should be from 52 to 55 VDC.

The Isolation must be 1500V RMS with respect to protective ground

Figure 8: C360 BUPS DC Input Terminal Block



Figure notes:

1. **Protective plastic cover**
2. **BUPS DC input terminals**
3. **Earthing post**

- The terminals are marked "+" and “-“.
- The size of the two screws in the terminal block is M4.
- The pitch between each screw is 9.5mm.

1. Remove the protective plastic cover over the BUPS DC inputs by unscrewing the two Phillips screws.

WARNING:

The conductors to be used for connecting the BUPS to the C360 must be UL Recognized and CSA Certified and be a minimum of 16 AWG or have a cross-sectional area of 1.0 mm^2.

ADVERTENCIA:

Los conductores que se utilizarán para conectar la BUPS con el C360 deben ser Reconocidos por UL, Certificados por CSA y ser como mínimo de 16 AWG o tener un área de sección transversal de 1.0 mm^2.

2. Connect the power cable to the terminals on the C360 and then external DC power supply.

WARNING:
Make sure that you connect the cables between the C360 and the external power supply correctly:

- Positive (“+") to positive (“+")
- Negative (“-") to negative (“-")

ADVERTENCIA:
Asegúrese que las polaridades de los cables entre el C360 y la fuente de alimentación externa estén conectados correctamente:

- Positivo ("+") a Positivo ("+")
- Negativo ("-") a Negativo ("-")

3. Replace the plastic cover by aligning the holes with the screw receptacles and replacing the two Phillips screws.

Supplemental Earthing of the C360 (Optional)

When connecting a BUPS to the C360, you must also connect a ground wire to the grounding post provided on the rear of the unit. This ground conductor must be green/yellow, a minimum of 16 AWG and be terminated with a lug that is suitable for the M4 stud provided. The other end of the ground conductor is to be terminated to a suitable building ground point such as a cold water pipe.

Post-Installation

The following indicate that you have performed the installation procedure correctly:

Table 4: Post-Installation Indications

Procedure	Indication
Powering the C360	• All front panel function LEDs illuminate briefly. - If the PWR LED blinks once every 1 second, then the BUPS is active and the main PSU is down. • The LINK, SYS and PWR LEDs light • The port LEDs flash

Chapter 5: Prepare for Configuration

This chapter provides information on preparing the C360 for configuration, and discusses the following topics:

- Establishing a Console Connection
- Assigning a C360 IP Stack Address
- Establishing a Telnet Connection
- Configuring the Switch

Establishing a Console Connection

This section describes the procedure for establishing switch access between a terminal and the Avaya C360 switch over the serial port provided on the front panel of the C360 (RJ-45 connector labeled “Console”). For information on the console port pin assignments, refer to the *Avaya C360 Installation and Maintenance User Guide*.

Figure 9: Avaya C360 Console Port



Figure notes:

1. **Console port**

1. Use the serial cable supplied to attach the RJ-45 console connector to the Console port of the active C360 switch. Connect the DB-9 connector to the serial (COM) port on your PC/ terminal.
   - The master C360 is indicated by the SYS LED being ON.
2. Ensure that the serial port settings on the terminal are:
   - 9600 baud
   - 8 bits
   - 1 stop bit
   - no parity.
   - If you reset or powered up the switch after connecting and configuring the terminal, `Welcome to C360` appears followed by the Login Name prompt.
   - If the login prompt does not appear, press a key on the terminal.
3. Enter the default login: `root`.
   - The Password prompt appears
4. Enter the user level password: `root`.
   - You can now establish a connection to the Router or the Master switch (indicated when the SYS front panel LED is ON) using the Session commands and begin the configuration of module, stack, or router parameters.

Assigning a C360 IP Stack Address

Note:

All C360 switches are shipped with the same default IP address. You must change the IP address of the master C360 switch in a stack in order to guarantee that the stack has its own unique IP address in the network.

The network management station or a workstation running a Telnet client can establish communications with the stack once this address had been assigned and the stack has been inserted into the network. Use the CLI to assign the C360 stack an IP address and net mask.

To assign a C360 IP stack address:

1. Establish a serial connection by connecting a terminal to the master C360 switch of the stack.
2. When prompted for a Login Name, enter the default name **`root`**
3. When you are prompted for a password, enter the password **`root`**. You are now in Supervisor Level.

4. At the prompt, type:
   `set interface inband` `<vlan> <ip_address> <netmask>`
   Replace `<vlan>`, `<ip_address>` and `<netmask>` with the VLAN, IP address, and net mask of the stack.
5. Press Enter to save the IP address and net mask.
6. At the prompt, type **`reset`**. Type y and press Enter to reset the stack. After the Reset, log in again as described above.
   - At the prompt, type **`set ip route`** `<dest> <gateway>` and replace `<dest>` and `<gateway>` with the destination and gateway IP addresses.

Establishing a Telnet Connection

Perform the following steps to establish a Telnet connection to the C360 for configuration of Stack or Router parameters. You can Telnet the Stack Master IP address:

1. Connect your station to the network.
2. Verify that you can communicate with the Avaya C360 by pinging the IP of the Avaya C360. If there is no response using ping, check the IP address and default gateway of both the Avaya C360 and the station.

   Tip:

   The Avaya C360 default IP address is 149.49.32.134 and the default subnet mask is 255.255.255.0.
3. From the Microsoft Windows taskbar of your PC click **Start** and then **Run** (or from the DOS prompt of your PC), then start the Telnet session by typing: **`telnet <C360_IP_address>`**
   For example: **`telnet 149.49.32.134`**
4. If the IP Address in the Telnet command is the IP address of the stack, then connection is established with the Switch CLI entity of the Master module.
   - The “Welcome to C360” screen appears
5. Enter the default name **`root`** at the Login name prompt.
6. Enter the User Level password **`root`** in lower case letters (do *not* use uppercase letters) at the Password prompt.
   - The User level prompt will appear when you have established communications with the Avaya C360.
     You can now configure the Avaya C360 stack and change its IP address.

Configuring the Switch

This section describes the procedures for the first-time configuration of the Avaya C360. The factory defaults are set out in detail in the tables included in this chapter.

You may configure the Avaya C360 using the text-based Command Line Interface (CLI), the built-in Avaya C360 Device Manager or Avaya Integrated Management.

For instructions on the CLI, see the *Avaya C360 Reference Guide*.

For instructions on the use of the graphical user interfaces, refer to the *C360 Device Manager User Guide* on the *Avaya C360 Documentation and Utilities CD*.

Avaya C360 Default Settings

The default settings for the Avaya C360 switch and its ports are determined by the Avaya C360 firmware. These default settings are subject to change in newer versions of the Avaya C360 firmware. See the *C360 Release Notes* for the most up-to-date settings.

Table 5: Default Switch Settings *1 of 2*

Function	Default Setting
IP address	149.49.32.134
Subnet Mask	255.255.255.0
Default gateway	0.0.0.0
Management VLAN ID	1
Spanning tree	Enabled
Bridge priority for Spanning Tree	32768
Spanning tree version	Common spanning tree
MAC aging	Enabled
MAC aging time	5 minutes
Keep alive frame transmission	Enabled
Network time acquisition	Enabled, Time protocol
IP multicast filtering	Disabled
802.1X system-auth-control	Disabled
	1 of 2

Table 5: Default Switch Settings *2 of 2*

Function	Default Setting
802.1X port-control	Auto
RADIUS server	Disabled
Time server IP address	0.0.0.0
Timezone offset	0 hours
SNMPv1 communities: Read-only Read-write Trap SNMP	 Public Public Public
SNMP authentication trap	Disabled
CLI timeout	15 Minutes
System logging	Disabled
Allowed protocols: SNMP Telnet HTTP Telnet ICMP redirect SSH Telnet client Recovery password	 Enabled Enabled Enabled Enabled Enabled Disabled Disabled Enabled
User Name/Password	root/root
	2 of 2

Tip:

Functions operate in their default settings unless configured otherwise.

Chapter 6: Device Manager

This chapter describes the installation procedures for the Device Manager of the Avaya C360.

Overview

The Device Manager provides the following:

- Managing and monitoring Power over Ethernet.
- Device Configuration - Viewing and modifying the different device configurations.
- Virtual LANs - Viewing and editing Virtual LAN information.
- Link Aggregation Groups (LAGs) - Viewing and editing LAG information.
- Port Redundancy - Setting port redundancy for ports in a C360 Switch.
- Port Mirroring - Setting up port mirroring for ports in a C360 Switch.
- Trap Managers Configuration - Viewing and modifying the Trap Managers Table.
- Switch Connected Addresses - View devices connected to selected ports. Port Security.
- Intermodule Redundancy
  - One pair per stack.
  - Also operates as a result of a module fault, for example, power failure.

System Requirements

Minimum hardware and operating system requirements are:

- Pentium II 400 Mhz-based computer with 128 Mb of RAM.
- Screen resolution of 1024 x 768 pixels.
- Microsoft Internet Explorer 5 or higher.
- Microsoft Windows 2000 Workstation or Windows XP.
- Sun Microsystems Java plug-in (supplied on the “Documentation and Utilities” CD). Refer to the Release Notes for the exact version of the Java plug-in.

Configuring the Device Manager

You can configure several Device Manager parameters using the CLI. These parameters include the time-out and retries parameters, the location of the Web server that provides the help files for the Device Manager, and the Java plug-in required for running the Device Manager.

Device Manager Commands

The following Device Manager commands are available.

In order to...	Use the following command...
Set the SNMP retries parameter	set snmp retries
Set the SNMP time-out parameter	set snmp time-out
Set the location of the Web server with the help files and the Java plug-in	set web aux-files-url
Display the SNMP retries parameter	show snmp retries
Display the SNMP time-out parameter	show snmp time-out
Display the URL of the Web server with the help files and the Java plug-in	show web aux-files-url

Running the Device Manager

Note:

You should assign an inband or out-of-band interface IP address to the switch before beginning this procedure.

To run the Device Manager:

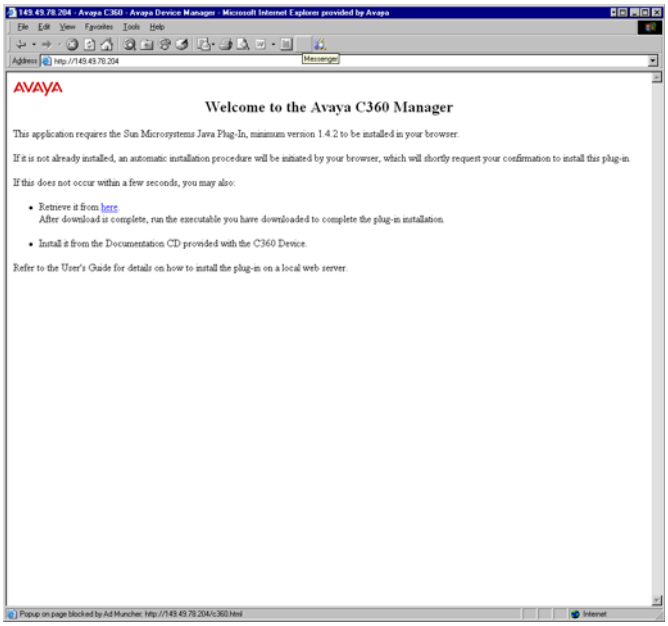
1. Open your browser.
2. Enter the URL of the switch in the format **`http://aaa.bbb.ccc.ddd`** where ***`aaa.bbb.ccc.ddd`*** is the inband or outband interface IP address of the switch.
   - The user name is “root”.
   - The default password for read-only access is “root”.
   - The default passwords for read-write access is “root”.

   Note:

   The C360 Device Manager passwords are the same as those of the CLI. If you change the passwords of the CLI then those passwords become active for the Device Manager as well. For further information on the passwords, refer to the *Avaya C360 Installation and Configuration User Guide*.

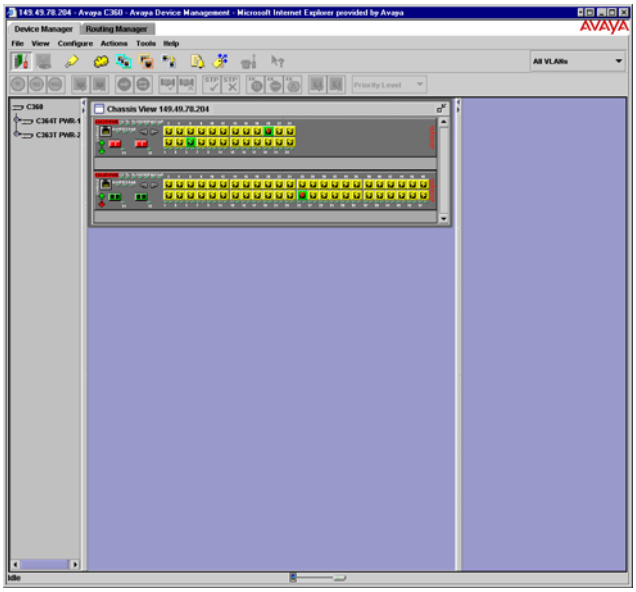
   The welcome page is displayed.

Figure 10: The Welcome Page



If you have the Java plug-in installed, the Device Manager automatically opens in a new window, shown in Figure 11.

Figure 11: Device Manager



3. If you do **not** have the Java plug-in installed, follow the instructions on the Welcome page for a variety of options to install the plug-in (see Installing the Java Plug-in).

Installing the Java Plug-in

If the network manager has configured the system, the plug-in should be installed automatically.

Note:

Ensure that Java or JavaScript is enabled on your Web browser. Please refer to your browser on-line help or documentation for further information.

If the plug-in is not installed automatically, then you have three options for installing it manually:

- Installing from the C360 Documentation and Utilities CD
- Install from the Avaya Web Site
- Install from your Local Web Site

Installing from the C360 Documentation and Utilities CD

To install from the C360 Documentation and Utilities CD:

1. Close all unnecessary applications on your PC.
2. Insert the *Avaya C360 Documentation and Utilities* CD in the CD drive.
3. Open Windows Explorer.
4. Browse to the **embweb-aux-files** folder on the CD.
5. Double-click **plugin_a_b_c.exe** (a, b and c are the version numbers of the plug-in).
6. Follow the on-screen instructions.

Install from the Avaya Web Site

Click the link in the Welcome page labelled “Retrieve it from here”.

Install from your Local Web Site

Click the appropriate link in the Welcome page.

Note:

This option is only available if the network manager has placed the files on the local Web server.

Installing the On-Line Help and Java Plug-In on your Web Site



Tip:

This procedure is optional.

Copying the help files and Java plug-in to a local Web server allows users to access the on-line help for the Device Manager and enables automatic installation and maintenance of the Java plug-in the first time the user tries to manage the device.

1. Copy the `emweb-aux-files` directory from the “Avaya C360 Documentation and Utilities” CD to your local Web server. Refer to your Web server documentation for full instructions.
2. Define the URL in the C360 using the following CLI command:
   `set web aux-files-url` `//IP address/directory name`
   where `//IP address/directory name` is the location of the directory from the previous step.

Documentation

The Device Manager comes with a detailed User’s Guide including a Glossary of Terms and an overview of Data Communications concepts.