SonicWall[®] SonicWave 681 Quick Start Guide

Regulatory Model Number. APL66-106

SONICWALL®

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Introduction

This *SonicWall*[®] SonicWave 681 *Quick Start Guide* provides instructions for basic installation and configuration of SonicWall SonicWave 681 wireless access points. The SonicWall SonicWave 681 is a ceiling-mountable wireless access point suitable for indoor single-unit or multi-unit deployments. It is plenum rated for installation within an enclosed space such as an attic. It can also be mounted on a wall or deployed on a shelf, table, or desktop. Power over Ethernet (PoE) should be provided to power the SonicWave 681.

SonicWave 681 Hardware Overview SonicWave 681



SonicWave 681 Hardware Components

Component Description	
2.4GHz and 5GHz radios	 Dual radios provide: 802.11b/g/n/ac DFS (Dynamic Frequency Selection) SonicWave 681 complies with FCC rules to detect and avoid interfering with radar signals in DFS bands. 2x2 11n + 2x2 11ac wave 2 MU-MIMO
1GbE LAN port	1 Ethernet 10/100/1000 LAN port for wired connection to a SonicWall network security appliance
USB port	1 USB 2.0 port
Scanning radio	Dedicated third scanning radio
Antennas	5 internal (2.4Ghz x 2 / 5Ghz x 2 / Scan Radio x 1)
Power source	802.3bt type 3 PoE (standard, PoE device sold separately) Optional DC 12V power adapter, sold separately

Component Chassis

Kensington secu Operating tempe

SonicWave 681 Ports

SonicWave 681 Back

Mounting Tab Insert Point -**Mounting Tab** Lock Point LAN/POE Port

wall or other flat surface.

Access points should be kept clear of Radio Frequency (RF) interference sources. RF interference from home, office, and medical equipment is a common challenge in wireless deployments

When considering RF interference sources, remember that most cell/wireless phones and Bluetooth devices only utilize the 2.4 GHz frequency. As such, they should not cause significant interference with wireless networks operating in the 5 GHz frequency.

Common Sources of RF Interference

equipment

Interference Source	Possible Range	Bands Affected
2.4 GHz phones	100 feet	2.4 GHz (802.11 b/g/n)
Bluetooth devices	30 feet	2.4 GHz (802.15)
Microwave oven	10 - 20 feet	2.4 and 5 GHz, depending on shielding
Scientific and medical	Short distance, varies	2.4 and 5 GHz, depending

Different frequency bands provide varying signal strength and quality over different distance ranges. Signals in the 2.4 GHz range tend to pass through physical barriers better and carry farther than those in the 5 GHz range, but they do not provide as high a data rate. Signals in the 5 GHz range provide faster data rates for better throughput, but the signal attenuates faster and is best suited for open spaces.

on shielding

cWave 681 Channel Widths, Max Data Rates, Range

802.11 (x)	Frequency / MIMO	Channel Width	Max Data Rate	Range (Radius)
802.11a	5 GHz	20 MHz	54 Mbps	90ft/25m
802.11b	2.4 GHz	20 MHz	11 Mbps	120ft/35m
802.11g	2.4 GHz	20 MHz	54 Mbps	120ft/35m
802.11n	2.4 or 5 GHz MIMO	20 or 40 MHz	300 Mbps	300ft/90m
802.11ac	5 GHz MU-MIMO	20 / 40 / 80 MHz	866 Mbps	120ft/35m

To allow multiple separate wireless networks in a shared space, the RF medium is divided into channels. The number of channels is regulated and varies by country. For devices using 5 GHz (802.11a/n/ac), there are up to 23 discrete channels.

For devices using the 2.4 GHz range (802.11b/g/n), the wireless space is limited to a maximum of 13 *overlapping* channels. As a result of these overlapping channels, 2.4 GHz technology provides only a total of three discrete channels.



7





Mounting Bracket Bottom



SonicWave 681 Hardware Components (Continued)

	Description
	Rectangle 119mm x 214mm x 34mm Plenum rated
irity slot	For use with a Kensington locking cable to prevent theft
erature	0° to 40°C

The back of the SonicWave 681 provides a **LAN/POE** port where the PoE Ethernet cable connects the access point with the PoE injector or PoE-enabled switch, which connects to your SonicWall network security appliance.

A 12V power connection is also provided on the back of the unit, where you can plug in a 12V adapter (sold separately) to power the device.



When the access point is installed, the back panel is attached to the ceiling or to a

Installing the Mounting Bracket

The SonicWave 681 comes with a mounting bracket so it can be mounted on the ceiling or other flat surface. This section describes how to attach the mounting bracket to the ceiling or an indoor wall.

The mounting bracket provides two pairs of T-bar locking tabs that support two ceiling T-bar widths: 15/16 inch and 9/16 inch.

The side panel of the SonicWave 681 has the LED indicators and the USB port. SonicWave 681 LEDs



You can insert a 3G/4G USB modem into the USB port to create a mobile wireless (MiFi) hotspot. See the *SonicOS* Administration documentation for information about the MiFi Extender feature. You can also use the USB port with a USB security clamp.

For information about the LEDs, see the SonicWave 681 LED Activity section.

To attach the mounting bracket to the ceiling using T-bar clips:

- 1 Press the top side of the mounting bracket against the ceiling tile T-bar so that the T-bar locking tabs on the mounting bracket are depressed.
- 2 Rotate the mounting bracket so the ceiling T-bar slides into the T-bar clips on the mounting bracket and the T-bar locking tabs click into place.



- To attach the mounting bracket to the ceiling or to a wall using screws:
- 1 Place the top side of the mounting bracket against the ceiling or wall and mark the locations for the two screw insertion points.
- 2 Drill starter holes at the marked locations. For a wood wall, use a drill bit that fits the provided screws. For drywall, use a drill bit that fits the anchors.
- 3 For drywall, screw in the anchors. 4 Place the mounting bracket against the wall with the holes lined up on the marks or
- 5 Using the provided screws and a screwdriver, securely attach the mounting bracket to the ceiling or wall.

Configuring the Firewall for Wireless Access

This section provides instructions for configuring SonicOS on your SonicWall network security appliance to connect your SonicWave 681 to the WLAN zone and manage it as a Layer 2 device. This includes:

- Configuring the SonicWave Provisioning Profile for radio frequency, mode, authentication type
- Configuring the Network Interface to which the SonicWave 681 connects
- Configuring the WLAN Zone for trust, security, and SonicWave provisioning profile

Configuring the SonicWave Provisioning Profile

SonicWave provisioning profiles include all of the settings that can be configured on a SonicWave 681 access point. The profile is then selected when you configure the wireless zone (WLAN by default). When your SonicWave 681 connects to that zone, it is automatically provisioned with the profile settings.

4 Checking Package Contents

following items: • SonicWave 681 appliance

- Mounting plate, screws and anchors
- CAT5e cable
- SonicWall SonicWave 681 Quick Start Guide • Safety, Regulatory and Legal Information document

Package Contents



If any items are missing from the package, contact SonicWall Technical Support at: https://www.SonicWall.com/support/contact-support.

NOTE: The PoE device for powering the SonicWave 681 is sold separately and is not included in the package.

To configure the SonicWave provisioning profile:

- 1 Log into your SonicWall firewall as an administrator (default: *admin / password*).
- 2 Navigate to the **DEVICE | External Controllers | Access Points > Settings** page.
- 3 In the Access Point Provisioning Profiles section, do one of the following:
- the SonicWave row.
- down menu.

Acc	ess Point Provisioning Pr	ofiles Access Point C
Q Sear	¢	Add New Profile: Select S
#	NAME	APPLIED ZONE
1	SonicWaveAX	WLAN
2	SonicPointN	WLAN
3	SonicPointNDR	WLAN
4	SonicPointACe/ACi/N2	WLAN
5	SonicWave	WLAN

The Add/Edit SonicWave Profile dialog displays. General screen settings:

1 Select **Enable**. This is selected by default

	Vave Profile	Add SonicV
5GHz Radio Advanced	5GHz Radio Basic	< General
Parkis	NGS	GENERAL SETTI
Enable		
Retain Settings		
Enable RF Monitoring		
Enable LED		
Enable Low Power Mode		
POE Out		
Name Prefix		
Country Code		
EAPOL Version		
Band Steering Mode		
Proxy Client DNS Request		

- 2 To turn on the LEDs for SonicWaves using this provisioning profile, select **Enable LED**. The LEDs are turned off by default.
- 3 If adding a new profile, type a simple, descriptive name into the **Name Prefix** field to assist in identifying the SonicWave in this zone. This is the name of the provisioning profile. Each provisioned SonicWave is named with this prefix followed by a unique
- 4 Verify the **Country Code** for the area of operation.

Before you begin the setup process, verify that your package contains the

• To modify the default **SonicWave** profile, click the **Edit Profile** icon after hovering in

• To create a new profile, select SonicWave Profile from the Add New Profile drop-





number. Optionally change the Name Prefix if editing the default SonicWave profile.

Deployment Requirements

SonicOS Firmware

SonicWall SonicWave 681 access points are centrally managed by SonicWall network security appliances running the following versions of SonicOS: • SonicOS 7.1.x or higher

Power Source

Use a 802.3bt type 3 compliant PoE injector or a PoE enabled switch to provide power to each SonicWave 681.

Internet Connectivity

An active Internet connection is required for your SonicWall network security appliance to download the latest SonicWave 681 firmware.

Gigabit Ethernet Connectivity

The SonicWave 681 requires a 5 Gigabit connection to the SonicWall network security appliance to take full advantage of the SonicWave 681 data throughput capability.

Deployment Considerations

Physical placement of the SonicWave 681 wireless access point has a measurable effect on who can and cannot access your wireless signal. If too many users are serviced by a single access point, maximum transfer rates are reached and that access point may become a bottleneck for the whole system.

A site survey can help find the optimum wireless access point placement, but you can find usable locations without it.

RF barriers can be circumvented by deploying multiple access points. Determining how to circumvent RF barriers can be a challenging part of the placement process, but RF barriers can also be used beneficially in an attempt to block signals where you do not want coverage. The 5 GHz frequency is more sensitive to RF barriers. A wall that allows a 2.4 GHz wireless network to operate can block a 5 GHz one.

Common RF Barrier Types

Barrier Type

Barrier Type	RF Signal Blocking
Glass, wood, drywall, cube partitions	Low
Floors and outer walls, aquariums (brick/marble/granite/water)	Medium
Concrete, security glass, wire mesh, stacked books/paper	High
Metal partitions, desks, reinforced concrete	Very High

5 Accept the defaults or configure the remaining options as necessary. Radio Basic Settings:

1 Click 5GHz Radio Basic

< General	5GHz Radio Basic	5GHz Radio Advanced	2.4GHz Radio Basic	2.4GHz Ra	dio Advanced	Sensor
GHZ RADIO SE	ITINGS	Enable Radio	Always On		•	
					•	
		MOI	DE 5GHz 802.11ac/n/a	Mixed	•	
		Enable DFS Channe	els j			
		SS	ID			
		Radio Ba	nd Auto		•	
		Standard Chan	Auto		-	
		Enable Short Guard Inter	val 🧻 🤅			
		Enable Aggregati	on 🧻 🛈			
VIRELESS SECU	RITY					
		Authentication Ty	pe Open		•	
		WEP Key Mo	de NONE	-		
		Default K	iey 1	-		
		Key Ent	Alphanumeric	-		

- 2 Select Enable Radio. This is selected by default.
- 3 Select a **MODE** or use the default.
- 4 Type a short, descriptive name into the SSID field. This is the access point name that
- 5 Under Wireless Security, select the Authentication Type for your wireless network. SonicWall recommends using **WPA2** as the authentication type if all client devices support it.
- **PSK** uses a passphrase for authentication, **EAP** uses an Enterprise RADIUS server. 6 Select the **Cipher Type**. When using WPA and WPA2, SonicWall recommends **AES** for
- maximum security if all client devices support it. 7 Fill in the fields specific to the authentication type that you selected. The remaining
- fields change depending on the selected authentication type. 8 Click **2.4GHz Radio Basic** and repeat **Step 2** through **Step 7**.
- **Radio Advanced Settings:**

1 Click 5GHz Radio Advanced.

<	General	5GHz Radio Basic	5GHz Radio Advanced	2.4GHz Radio Basic	2.4GHz Radio Advance	d Sensor	>
5GH	IZ RADIO AD	ANCED SETTINGS					
			Hide SSID in Bea	con			
			Schedule IDS S	can Disabled		•	
			Minimum Data F	Rate Best	-		
			Transmit Po	wer Full Power	•		
			Beacon Interval (millisecor	nds) 100	()		

2 For most advanced options, the default settings give optimum performance.

- 3 Optionally select the **Hide SSID in Beacon** checkbox.
- The SSID refers to the access point name that appears in clients' lists of available wireless connections. Hiding the SSID provides additional security because it requires the user to know the access point name before connecting. 4 Click **2.4GHz Radio Advanced** and repeat Step 3.
- 5 When finished configuring all options, click **OK**.

For information about configuring the other options and screens in the Add/Edit SonicWave Profile dialog, see the SonicOS Administration documentation.

Configuring the Network Interface

Each SonicWave or group of SonicWaves must be connected to a physical network interface that is configured in a wireless zone. SonicOS provides a standard wireless zone (WLAN) that can be applied to any available interface.

To configure the network interface in SonicOS:

1	Navigate to the NETWORK System > Interfaces page and click the Edit this interface
	icon by hovering over the interface to which your SonicWave connects.

General Advanced		
INTERFACE 'X2' SETTINGS		
Zone	WLAN 🔻	
Mode / IP Assignment	Static IP Mode 🔹	
IP Address	172.10.6.4	
Subnet Mask	255.255.255.0	
SonicPoint/SonicWave Limit	4	
Reserve SonicPoint/SonicWave Address	Automatically	
	Manually	
Comment		
Domain Name		í
Add rule to enable redirect from HTTP to HTTPS		
MANAGEMENT	USER LOGIN	
HTTPS	нттр)
Ping	HTTPS)
SNMP		

- 2 Select WLAN or another (custom) wireless zone from the Zone drop-down menu. The default wireless zone is WLAN.
- 3 Select Static IP Mode for the Mode/IP Assignment.
- 4 In the **IP Address** field, type in any private IP address that does not interfere with the IP address range of any other interfaces on the appliance. Wireless clients are assigned an IP address in this subnet.
- 5 Enter a **Subnet Mask**. The default is 255.255.255.0.
- 6 Select a non-zero number for SonicPoint/SonicWave Limit. If 0 is selected, no access points can be discovered on this interface.

7 Use the default settings or select appropriate settings for the other fields and click **OK**.

Configuring the WLAN Zone To configure the WLAN zone in SonicOS:

- 1 Navigate to **OBJECT | Match Objects > Zones** page, click the **Edit** icon in the WLAN row.
- 2 On the General screen, select the Allow Interface Trust option to automate the creation of Access Rules to allow traffic to flow between the interfaces within the zone, regardless of the interfaces to which the zone is applied.

For example, if the WLAN zone has both the X2 and X3 interfaces assigned to it, selecting Allow Interface Trust creates the necessary access rules to allow hosts on these interfaces to communicate with each other.



- 3 Select the checkboxes to enable security services on this zone. Minimally, you would select Enable Gateway Anti-Virus Service, Enable IPS, and Enable Anti-Spyware Service. If your wireless clients are all running SonicWall Client Anti-Virus, select Enable Client AV Enforcement Service.
- 4 In the **Guest Services** screen, optionally configure guest Internet access. For information about Guest Services, see the *SonicOS Administration* documentation.
- 5 In the Wireless screen under SonicPoint/SonicWave Settings, select the desired provisioning profile from the **SonicWave Provisioning Profile** drop-down menu. If you added a new profile in Configuring the SonicWave Provisioning Profile, select it here.

- maximum security. 7 When finished, click Save.

9

Installing the SonicWave 681

attach the SonicWave 681 to the mounting bracket. The SonicWave 681 connects to a WLAN zone interface on your SonicWall network security appliance. The access point is powered through Power over Ethernet (PoE), with the PoE device positioned between the SonicWave 681 and the firewall. SonicWall recommends using CAT5e Ethernet cables to connect the devices.

- SonicOS.

- indicates an active connection

5 GHz Radio LED

LED Color	Description
Off	5 GHz radio is off
Solid Green	5 GHz radio is on
Blinking Green	Active traffic on 5 GHz radio

2.4 GHz Radio LED

LED Color	Description
Off	2.4 GHz radio is off
Solid Green	2.4 GHz radio is on
Blinking Green	Active traffic on 2.4 GHz radio

LED Pattern During Firmware or SafeMode Bootup

LEDs	LED Color	Description
LAN	Green - Heartbeat	The three LEDs blink simultaneously in a
5 GHz Radio	Green - Heartbeat	progress:
2.4 GHz Radio	Green - Heartbeat	On - On - Off

LED Pattern for Reset Button Hold Durations

LEDs	LED Color	Description
LAN	Blinking Green	The three LEDs blink simultaneously at a slow
5 GHz Radio	Blinking Green	 or medium rate: Slow blink – Press Reset button 3 sec
2.4 GHz Radio	Blinking Green	Med blink – Press Reset button 8 sec

LED Pattern in SafeMode

LEDs	LED Color	Description
LAN	Green - Flow	The three LEDs turn on serially (one by one)
5 GHz Radio	Green - Flow	and then turn off serially in a flow pattern while the SonicWave 681 is in SafeMode.
2.4 GHz Radio	Green - Flow	_

NOTE: The LEDs are disabled by default. You can enable them in the SonicWave provisioning profile or individual SonicWave entry in SonicOS on the firewall.

6 Select Only allow traffic generated by a SonicPoint/SonicWave to allow only traffic from SonicWall wireless access points to enter the WLAN zone interfaces, providing

You are now ready to connect your SonicWave 681 to your SonicWall network security appliance as described in the following sections.

This section describes how to connect the PoE and network cables and then

∧ CAUTION: An 802.3bt type 3 compliant PoE injector or PoE enabled switch is required to provide power to each SonicWave 681.

To maintain power to the SonicWave 681, the maximum length of CAT5e cable from the PoE device to the SonicWave 681 is 100 meters (333 feet).

To connect the SonicWave 681 to PoE and the network:

1 Using an Ethernet cable, connect the **Data in** port on the PoE Injector to an existing WLAN zone interface on the firewall or to an unused interface to be configured later in

2 Using a second Ethernet cable, connect the **Data and Power Out** port on the PoE injector to the LAN/POE port on your SonicWave 681.

Refer to your PoE Installation Guide for more information.

3 Plug the power cord of the PoE Injector into an appropriate power outlet. 4 Wait up to two minutes for the LAN LED on the SonicWave 681 to illuminate. This

To attach the SonicWave 681 to the mounting bracket:

1 Line up the two mounting tab insert points on the back of the SonicWave 681 with the mounting tabs on the mounting bracket.

2 Insert the mounting tabs into the SonicWave 681 and slide the access point down until the locking tab on the bracket clicks into place on the SonicWave.

Connecting the SonicWave 681 Local Network (LA 🗕 🗕 Wireless Client

10 Verifying SonicWave Operation

To verify that the SonicWave is provisioned and operational:

1 Log into your SonicWall firewall as an administrator (default: *admin / password*).

- 2 Navigate to the **DEVICE | External Controllers > Access Points > Settings** page. 3 In the Access Point Objects table, the Status column displays the SonicWave 681 status. It might display *Initializing, Updating Firmware, Writing Firmware,* and Rebooting. After rebooting, the Status should display Operational. If the Status displays Operational (Not Licensed) and does not change to Operational soon, contact SonicWall Support for assistance with licensing the SonicWave.
- 4 Connect a client device to the SonicWave by selecting the appropriate access point name (SSID).
- 5 Ensure that the client device is not connected to any other network connections (wired LAN, 3G/4G WWAN).
- 6 In a browser, enter "https://www.SonicWall.com/" in the address bar and press Enter. The SonicWall website should display. If you are unable to browse to a website, refer to Troubleshooting Tips.



11 Troubleshooting Tips

When the SonicWave 681 is connected to a SonicWall network security appliance, the two units perform an encrypted exchange, and an entry for the SonicWave 681 is automatically created in the **SonicPoint/SonicWave Objects** table. Navigate to the **DEVICE** | **External Controllers** > **Access Points** > **Settings** page in SonicOS. If the entry does not appear in the table within five minutes of connecting the SonicWave 681:

- a wireless zone. Either the default WLAN zone or a custom zone with type set to "wireless" is required.
- Ensure that the SonicWave 681 is properly connected with an Ethernet cable to an 802.3bt type 3 compliant PoE device.
- If an 802.3bt type 3 compliant PoE injector is being used, verify that the SonicWave 681 is connected to the PoE port labeled Data & Power Out.
- functional:
- sufficient power to properly run current generation 802.11 devices.
- Click Synchronize Access Points on the DEVICE | External Controllers > Access image from the SonicWall back-end server.

If the SonicWave becomes unresponsive or seems erratic, you can use the **Reset** button to reset the SonicWave to factory default settings or put it into SafeMode. Use a narrow, straight object, like a straightened paper clip to press the **Reset** button.

- To reboot the SonicWave with factory default settings, press Reset for three seconds until three LEDs begin to flash slowly. If the SonicWave is connected to your firewall, it
- To reboot the SonicWave into SafeMode, press **Reset** for eight seconds until three LEDs begin flashing at a medium rate.

See the LED Pattern for Reset Button Hold Durations and LED Pattern in SafeMode tables for more information.

TIP: SafeMode allows you to log into the SonicWave directly at 192.168.1.20 (default: *admin/password*) to manually update the firmware in rare situations when other troubleshooting fails. Contact SonicWall Support for assistance.

• Make sure the SonicWave 681 is connected to an interface that is configured as part of

• If the SonicWave 681 has an entry in the table, but reboots frequently or seems non-

• Verify that your PoE switch/injector is 802.3bt type 3 compliant and rated to deliver sufficient power to each PoE port. 802.3af compliant PoE devices do not provide

Points > Settings page to force SonicOS to download a new SonicWave firmware

reboots again after the provisioning profile settings are applied.



12 SonicWave 681 LED Activity

The SonicWave 681 LEDs provide essential status information about the access point.

Power LED

ED Color	Description
ff	No power
lue	Power is on

Security LED

LED Color	Description
Green	All security services licensed
Blinking Yellow	Security services license expired. Security services monitored by this LED: Gateway Anti-Virus, Intrusion Prevention, Anti- Spyware

Bluetooth Low Energy (BLE) LED

LED Color	Description
Green	On: Bluetooth has paired successfully. Blinking: Bluetooth is ready for pairing.
Off	Bluetooth is not paired.

LAN LED

LED Color	Description
Off	No link
Solid Yellow	Link established at 1 Gbps, 2.5 Gbps, or 5Gbps
Blinking Yellow	Active traffic at 1 Gbps
Solid Green	Link established at 100 Mbps or 10 Mbps
Blinking Green	Active traffic at 100 Mbps or 10 Mbps