Wi-Fi Hotspot Profile Setup

This chapter provides information on configuring Wi-Fi Hotspot Profiles for desk phones.

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About Wi-Fi Hotspot Profile Setup

The Wi-Fi Hotspot Profile feature allows users to use their desk phones to provide a Wi-Fi Hotspot, so that they can connect a Wi-Fi device such as a tablet or a mobile phone to the network through the desk phone. The desk phones can automatically download the Wi-Fi Hotspot configuration from the Cisco Unified Communications Manager, and the configuration is then applied to these devices.

To use the Wi-Fi Hotspot Profile feature, you must configure a Wi-Fi Hotspot Profile on the Cisco Unified Communications Manager administrative interface. After the profile is created, you must associate it with a phone. To associate a Wi-Fi Hotspot Profile to a phone, you can configure the profile at the Enterprise Parameters, Common Phone Profile, or individual phone level. Configuring a Wi-Fi Hotspot Profile on the Phone page overrides the Enterprise Parameters and Common Phone Profile settings. After the desk phones download the TFTP configuration file, the users can enable Wi-Fi Hotspot and connect the Wi-Fi devices.

Important

No endpoints currently support the Wi-Fi Hotspot Profile feature.

By default, the Wi-Fi Hotspot Profile feature is disabled in Cisco Unified Communications Manager. If you want to enable the Wi-Fi Hotspot for a desk phone, you can enable the Wi-Fi Hotspot feature at the Enterprise Phone Configuration, Common Phone Profile or individual phone level and then apply a Wi-Fi Hotspot Profile to the Enterprise Parameters, Common Phone Profile or individual phone level. The Wi-Fi Hotspot setting on the Phone page overrides the setting on the Common Phone Profile page, which overrides the setting on the Enterprise Phone Configuration page.

Wi-Fi Hotspot Profile Settings

The following table displays the Wi-Fi Hotspot Profile settings.
<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wi-Fi Hotspot Profile Information</td>
<td>Enter a name for the Wi-Fi Hotspot Profile. The value can include 1 to 50 characters, including alphanumeric characters, dots, dashes, and underscores.</td>
</tr>
<tr>
<td>Name</td>
<td>Enter a description for the Wi-Fi Hotspot Profile. The description can include up to 50 characters in any language, but it cannot include double quotation marks (&quot;), percentage sign (%), ampersand (&amp;), backslash (), or angle brackets (&lt;&gt;).</td>
</tr>
</tbody>
</table>
| User Modifiable | Select one of the following options from the drop-down list box:  
**Allowed**  
Indicates that the user can change any profile settings. This is the default setting.  
**Disallowed**  
Indicates that the user cannot make any changes to the profile.  
**Restricted**  
Indicates that some settings (Enable/Disable, SSID Suffix, PSK Passphrase, WEP Key) can be modified, but other settings (Frequency Band, Authentication Method, Authentication Server, Port, Shared Secret) cannot be modified. |
| Wireless Settings | Enter the Service Set Identifier (SSID) Prefix for the Wi-Fi Hotspot Profile. The SSID Prefix that you enter here is combined with the SSID suffix, which is generated automatically based on the local endpoint information, to create a unique SSID for the Wi-Fi Hotspot of the phone. The value can include 1 to 20 alphanumeric characters. |
Select one of the following frequency band settings from the drop-down list box:

**Auto**
The profile automatically chooses a frequency band.

**2.4 GHz**
The profile automatically chooses 2.4 GHz as the frequency band.

**5 GHz**
The profile automatically chooses 5 GHz as the frequency band.

**Note**
If you select the Auto option, a single channel will be used to serve clients because dual-band operation is currently not supported.

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| Frequency Band| Select one of the following frequency band settings from the drop-down list box: **Auto**  
The profile automatically chooses a frequency band.  
**2.4 GHz**  
The profile automatically chooses 2.4 GHz as the frequency band.  
**5 GHz**  
The profile automatically chooses 5 GHz as the frequency band.  
**Note**  
If you select the Auto option, a single channel will be used to serve clients because dual-band operation is currently not supported. |
<p>| Authentication|             |</p>
<table>
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<tr>
<td>Authentication Method</td>
<td></td>
</tr>
</tbody>
</table>
Specify the authentication method that is used to secure access to the Wi-Fi Hotspot. Depending on the method you choose, a PSK Passphrase, WEP key, or password description field appears so that you can provide the credentials that are required to connect to this Wi-Fi Hotspot.

The following authentication methods are available:

**EAP-FAST**

(Extensible Authentication Protocol - Flexible Authentication through Secure Tunneling)

If you choose this method, the Wi-Fi client that is connecting to the Wi-Fi Hotspot must be configured with a valid username and password.

**PEAP-MSCHAPV2**

(Protected Extensible Authentication Protocol - Microsoft Challenge Handshake Authentication Protocol Version 2)

If you choose this method, the Wi-Fi client that is connecting to the Wi-Fi Hotspot must be configured with a valid username and password.

**PEAP-GTC**

(Protected Extensible Authentication Protocol - Generic Token Card)

If you choose this method, the Wi-Fi client that is connecting to the Wi-Fi Hotspot must be configured with a valid username and password.

**WPA2-PSK**

(Wi-Fi Protected Access Pre-Shared Key)

This method uses Advanced Encryption Standard (AES) encryption. If you select this method, you must enter a passphrase, which is an 8 to 63 ASCII character string or a 64 HEX character string.

**WPA-PSK**

This method uses Temporal Key Integrity Protocol (TKIP) encryption. If you select this method, you must enter a passphrase, which is an 8 to 63 ASCII character string or a 64 HEX character string.

**WEP**

(Wired Equivalent Privacy)
### WEP Key Requirements

WEP requires a WEP Key, which is either a 5 or 13 ASCII character string or a 10 or 26 HEX character string.

**None**

No authentication is required.

### Server Settings

- **Host Name/IP Address**: Enter the DNS hostname (up to 255 characters) or IP address of the authentication server.
- **Port**: Enter the port number. 1812 is the default port. The accepted port range is 1-65535.
- **Shared Secret**: Enter the shared secret. The value can include 1 to 32 characters. The shared secret is used to authenticate against the authentication server. The shared secret specified in the Wi-Fi Hotspot Profile must match with the shared secret specified in the authentication server.

**Note**: The server settings are displayed only if you select the authentication method as EAP-FAST, PEAP-MSCHAp2, or PEAP-GTC.

### Create Wi-Fi Hotspot Profile

Use the following procedure to create a new Wi-Fi Hotspot Profile. After you create a Wi-Fi Hotspot Profile, you can apply it at the Enterprise Parameters, Common Phone Profile or individual phone level.

**Procedure**

**Step 1**  
From Cisco Unified Communications Manager Administration, select **Device > Device Settings > Wi-Fi Hotspot Profile**.

**Step 2**  
Click **Add New**.  
The Wi-Fi Hotspot Profile settings window appears.

**Step 3**  
Enter the Wi-Fi Hotspot Profile settings.

**Step 4**  
Click **Save**.  
The Wi-Fi Hotspot Profile is created.

Repeat this procedure for each Wi-Fi Hotspot Profile that you want to create.