

Changing Device Settings on Polycom Phones

This engineering advisory shows you how to change device settings on Polycom® SoundPoint® IP, SoundStation® IP, and VVX® 1500 phones, and SpectraLink® 8400 Series wireless handsets.

This engineering advisory applies to SoundPoint IP, SoundStation IP, and VVX phones running Polycom® UC Software 3.3 or later. This engineering advisory applies to SpectraLink 8400 Series Wireless Handsets running Polycom UC Software 4.0.0 or later.

Introduction

This document explains how to change the device settings on a Polycom phone. The concepts are explained in more detail in the following sections:

- [Device Settings](#)
- [Configuration Templates](#)

The topics in this engineering advisory include:

- [What Administrators Need to Know](#)
- [Sample Configuration File](#)

Device Settings

The device settings—also known as device or flash parameters—can be used to initialize multiple phones and remove the need for manual interaction with the handsets to configure basic settings.

Configuration Templates

All of the device settings are shown in **device.cfg** configuration template. By default, these parameters are disabled.

What Administrators Need to Know

The global `device.set` parameter must be enabled to use any other device parameter.

Two device parameters exist for every configuration parameter—`device.xxx` and `device.xxx.set`. If `device.xxx.set` is 1, the `device.xxx` value is used; otherwise it is not used. For example, if `device.wifi.enabled.set` is set to 1, then the value in `device.wifi.enabled` is used.

Table 1

<i>Parameter</i>	<i>Permitted Values</i>	<i>Default</i>
device.set	0 or 1	0
If set to 0, do not use any <code>device.xxx</code> to set any parameters. Set this to 0 after the initial installation. If set to 1, use any <code>device.xxx</code> if <code>device.xxx.set = 1</code> . Set this to 1 for the initial installation only.		
device.xxx	string, boolean, integer, or enumerated type	Null
The configuration parameter.		
device.xxx.set	0 or 1	0
If set to 0, do not use <code>device.xxx</code> . Set this to 0 after the initial installation. If set to 1, use <code>device.xxx</code> if <code>device.xxx.set = 1</code> . Set this to 1 for the initial installation only.		



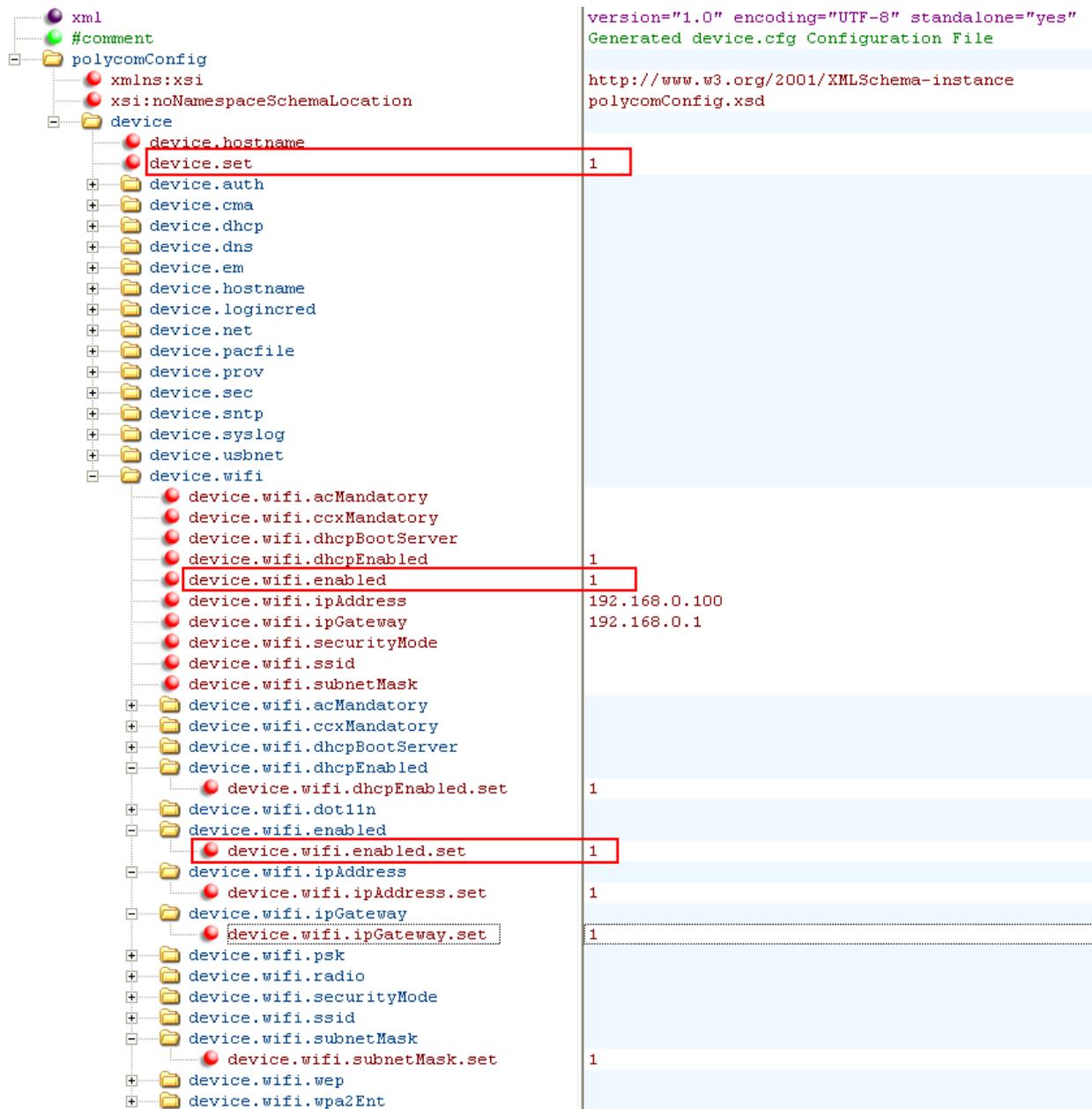
Caution: Use Device Settings With Caution

This feature is very powerful and should be used with caution. For example, an incorrect setting could set the IP Address of multiple phones to the same value. Note that some parameters may be ignored, for example if DHCP is enabled it will still override the value set with `device.net.ipAddress`. Individual parameters are checked to see whether they are in range, however, the interaction between parameters is not checked. If a parameter is out of range, an error message will appear in the log file and parameter will not be used. Incorrect configuration could cause phones to get into a reboot loop. For example, server A has a configuration file that specifies that server B should be used, which has a configuration file that specifies that server A should be used. Polycom recommends that you test the new configuration files on two phones before initializing all phones. This should detect any errors including IP address conflicts.

For a list of all device settings, see the latest *Polycom UC Software Administrator's Guide* available at <http://support.polycom.com/PolycomService/support/us/support/voice/index.html>.

Sample Configuration File

The following example shows changes to the device settings in the configuration template **device.cfg** that are required for provisioning the SpectraLink 8400 Series wireless handsets. In the example shown next, `device.set`, `device.wifi.enabled`, and `device.wifi.enabled.set` are highlighted.



```
version="1.0" encoding="UTF-8" standalone="yes"
Generated device.cfg Configuration File

http://www.w3.org/2001/XMLSchema-instance
polycomConfig.xsd

<device>
  <device.set 1 />
  <device.auth />
  <device.cma />
  <device.dhcp />
  <device.dns />
  <device.em />
  <device.hostname />
  <device.logincred />
  <device.net />
  <device.pacfile />
  <device.prov />
  <device.sec />
  <device.sntp />
  <device.syslog />
  <device.usbnet />
  <device.wifi>
    <device.wifi.acMandatory />
    <device.wifi.ccxMandatory />
    <device.wifi.dhcpBootServer />
    <device.wifi.dhcpEnabled 1 />
    <device.wifi.enabled 1 />
    <device.wifi.ipAddress 192.168.0.100 />
    <device.wifi.ipGateway 192.168.0.1 />
    <device.wifi.securityMode />
    <device.wifi.ssid />
    <device.wifi.subnetMask />
    <device.wifi.acMandatory />
    <device.wifi.ccxMandatory />
    <device.wifi.dhcpBootServer />
    <device.wifi.dhcpEnabled>
      <device.wifi.dhcpEnabled.set 1 />
    </device.wifi.dhcpEnabled>
    <device.wifi.dot11n />
    <device.wifi.enabled>
      <device.wifi.enabled.set 1 />
    </device.wifi.enabled>
    <device.wifi.ipAddress>
      <device.wifi.ipAddress.set 1 />
    </device.wifi.ipAddress>
    <device.wifi.ipGateway>
      <device.wifi.ipGateway.set 1 />
    </device.wifi.ipGateway>
    <device.wifi.psk />
    <device.wifi.radio />
    <device.wifi.securityMode />
    <device.wifi.ssid />
    <device.wifi.subnetMask>
      <device.wifi.subnetMask.set 1 />
    </device.wifi.subnetMask>
    <device.wifi.wep />
    <device.wifi.wpa2Ent />
  </device.wifi>
</device>
```



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