

# When Encrypting Polycom UC Software Configuration Files

This quick tip provides assistance for configuring encrypted configuration files for Polycom phones running Polycom® UC Software.

This quick tip applies to Polycom SoundPoint IP, SoundStation IP, and VVX phones running Polycom UC Software version 3.3.0 or later.

## Introduction

For security reasons, an administrator may wish to encrypt configuration files sent to the phone from a provisioning server and files uploaded by the phone to the provisioning server. This process involves generating a key, which you can download to the phone and use to encrypt or decrypt configuration files.

For more information, contact your system administrator or refer to the appropriate user guide and the latest *Polycom UC Software Administrator's Guide* at <http://www.polycom.com/voicedocumentation/>.

## Summary of Configuration Steps

You must perform the following steps:

- 1 Request the Software Development Kit (SDK) for key generation and configuration file encryption/decryption from Polycom Customer Support and follow the instructions outlined in the Readme file.

Your generated key file should contain a string that looks like this:

```
Crypt=1;KeyDesc=description;Key=93750C896A35F74EF704CEA66CC89049;
```

The string contains three attributes:

- The type of encryption - 128bit AES encryption
- A description of the key for ease of key identification
- The key itself



- 2 Create an XML file into which you will place this key and reference the file in your <MAC-Address>.cfg or 000000000000.cfg master configuration files.



Note that the master configuration file or the bootrom.ld or sip.ld software files cannot be encrypted.

The newly created file should contain the following XML tags in order for the phone to download the key successfully:

```
<device device.set="1">
<device.sec.configEncryption.key.set="1">
<device.sec.configEncryption.key="Crypt=1;KeyDesc=hello;Key=93750C896A35F74EF704CEA66CC89049">
</device>
```



Ensure that you include the full string rather than just the key. The phone will fail to read the key if you do not.

Ensure that the encrypted files are not altered when you copy them from a computer running the Linux operating system to a computer running the Microsoft® Windows® operating system.

A sample file might look like this:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<!-- PlcmConversionCreatedFile version=1.2 converted=Fri Feb 18 10:25:05
2011 -->
<polycomConfig xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="polycomConfig.xsd">
<device device.set="1">
<device.sec>
<device.sec.configEncryption
device.sec.configEncryption.key="Crypt=1;KeyDesc=hello;Key=93750C896A35F74EF704CEA66CC89049;" device.sec.configEncryption.key.set="1" />
</device.sec>
</device>
</polycomConfig>
```

- 3 (Optional) Add <sec.encrypted> parameters (described in the Configuration Parameters in the Polycom UC Software Administrator's Guide) to specify whether the phone uploads its configuration files in an encrypted or an unencrypted format.



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