# **Troubleshoot Key Expansion Modules Issues in Webex Calling**

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# Introduction

This document describes the most common issues faced with Key Expansion Module (KEM) on phones registered to Webex Calling (WxC).

## Prerequisites

## Requirements

Cisco recommends that you have knowledge of these topics:

- Webex Calling
- Control Hub
- Cisco Phones

## **Components Used**

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

# **Background Information**

A Key Expansion Module extends the capabilities of IP Phones. Its purpose is to provide additional keys for speed dials, directory numbers (DN), or programmable feature keys to the 8800 IP Phones.

# **Common Configuration Issues**

## Ensure the correct KEM Type is configured on the Phone

Step 1. From the Phone keypad, press the Applications key

#### **Step 2.** Select **User preferences** > **Attendant console preferences** > **KEM type**

Step 3. Select the key expansion module type:

- BEKEM
- CP-8800-Audio
- CP-8800-Video

Note: The correct model type can be obtained from the back of the KEM.

Step 4. Click Save and Reset the device

#### **Control Hub Settings**

In order to confirm the configuration of the device, navigate to **Control Hub** > **Devices** and select the device where the KEM is connected to:

webex Control H	ub	Select Customer	~	Q Search	
<ul> <li>Overview</li> <li>Alerts center</li> <li>MONITORING</li> </ul>	Devices	s % Settings ≒ Soft	ware 🗘 My alerts	s 😑 Resources	
<ul> <li>✓ Webex Experience</li> <li>☑ Analytics</li> <li>✓ Troubleshooting</li> <li>☑ Reports</li> </ul>	Q Find devices by status, type Select one or more devices for bull	e, and more k actions	73 Devices in total	Online     Issues	34   • Expired     0   • Status unavail
C MANAGEMENT	Туре	Product		Status	
으 Users	Phones	Eisco 88 Cisco	351	• Online	
巻 Workspaces	Accessories	Cisco 52	20	• Online	

On the Device Page, navigate to the Device Management section and select Device Settings.

#### **Device Management**

The users and workspaces that appear on this device are displayed below in the order of appearance.

To add and remove users and workspaces, select **Configure Lines**. To customize the programmable Line Keys, select **Configure Layout**. To set up the display settings and dialing options, select **Device Settings**.

Lin	e Name	Number/Extension Reg.				
1	Line	41062/NA 📀				
9 of	9 of 10 total lines available					
Ś	Configure Lines	Manage	>			
ŝ	Configure Layout	Manage	$\rangle$			
ŝ	Device Settings	Manage	>			

On Device Settings, confirm that POE Mode is set to Maximum and select Save.

Device Settings				×
	Off Hook Timer 🛈	30		
	Phone Language 🛈	English (United States) 🗸		
	POE Mode 🛈	Maximum V		
	QoS ①			
	Screensaver ()		^	
	Screen Timeout	300		
	Rear USB Port 🛈			
	VLANs 🕡	×	$\sim$	
	Wifi Network ()	×	$\sim$	
			Cancel	Save

## **Power Supply Compatibility**

One of the most common problems with KEMs is related with POE. If the Phone uses POE, ensure that

enough power is provided to the Phone to be able to power the KEMs connected to it, and that the number of KEMs connected to the phone is supported as shown in Table 4 in <u>Cisco IP Phone 8800 Series</u> <u>Multiplatform Phones Administration Guide.</u>

# Verify

Once the correct settings have been applied, the registration can be confirmed from **Control Hub** > **Devices.** Confirm the KEM status shows **Online**.

webex Control Hu	Select C	Customer 🗸 🗸	Q Search
<ul> <li>☐ Overview</li> <li>↓ Alerts center</li> <li>MONITORING</li> </ul>	Devices	% Settings 📥 Software 🏻 ۞ My a	lerts ∷⊟ Resources
<ul> <li>◇ Webex Experience</li> <li>▲ Analytics</li> <li>         ✓ Troubleshooting     </li> <li>         ■ Reports     </li> </ul>	Q Find devices by status, type, and Select one or more devices for bulk action	d more 73 Devices in to	tal Online 25 Offline 25 • Status unavailable 2
MANAGEMENT	Туре	Product	Status
요 Users	Accessories	Cisco 562 Standard Base	• Online
巻 Workspaces	Accessories	Cisco 8800 A-KEM	Online

In order to configure the KEM, select the IP Phone where the KEM is connected to from the **Devices** tab on Control Hub:

webex Control H	Select	t Customer	V Q Search	
G Overview				
	Devices			
MONITORING	Devices Templates	% Settings ≒ Software 🗘 My	alerts	
🛇 Webex Experience				
Malytics	Q Find devices by status, type, and	more 73 Devices in t	otal Online	34 • Expired
✓ Troubleshooting			<ul> <li>Issues</li> </ul>	Status unavail
Reports	Select one or more devices for bulk action	S		
t MANAGEMENT	Туре	Product	Status	
A Users	Phones	Cisco 8851	Online	
巻 Workspaces	Accessories	Cisco 520	Online	

On the Device Page, navigate to the Device Management section and select Device Layout.

#### **Device Management**

The users and workspaces that appear on this device are displayed below in the order of appearance.

To add and remove users and workspaces, select **Configure Lines**. To customize the programmable Line Keys, select **Configure Layout**. To set up the display settings and dialing options, select **Device Settings**.

Lin	e Name	Number/Extension Reg.				
1	Line	41062/NA 📀				
9 of	9 of 10 total lines available					
{္မွ် Configure Lines		Manage	>			
ŝ	Configure Layout	Manage	>			
ŝ	Device Settings	Manage	$\rangle$			

In the Configure Layout window, the correct Key Line assignments can be configured.

## **Related information**

- <u>Cisco IP Phone 8800 Series Multiplatform Phones Administration Guide</u>
- <u>Cisco IP Phone 8800 Key Expansion Module Data Sheet</u>
- <u>Cisco Technical Support and Documentation</u>