



## **Cisco Unified Communications Manager SIP Line Messaging Guide (Standard)**

For Cisco Unified Communications Manager Release 8.5(1)

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## Preface

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This document describes the implementation of the Session Initiation Protocol (SIP) for line side devices in Cisco Unified CM.

The preface covers these topics:

- [Audience](#)
- [Organization](#)
- [Conventions](#)
- [Obtaining Documentation, Obtaining Support, and Security Guidelines](#)

## Audience

This document provides information for developers, vendors, and customers who are developing applications or products that integrate with Cisco Unified CM using SIP messaging.

## Organization

This document consists of the following chapter.

Chapter	Description
<a href="#">Chapter 1, "SIP Standard Line Interface"</a>	Provides an overview of SIP line messages and standards compliance.

## Conventions

This document uses the following conventions:

Convention	Description
<b>boldface</b> font	Commands and keywords are in <b>boldface</b> .
<i>italic</i> font	Arguments for which you supply values are in <i>italics</i> .
[ ]	Elements in square brackets are optional.

Convention	Description
{ x   y   z }	Alternative keywords are grouped in braces and separated by vertical bars.
[ x   y   z ]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
screen font	Terminal sessions and information the system displays are in <code>screen font</code> .
<b>boldface screen font</b>	Information you must enter is in <b>boldface screen font</b> .
<i>italic screen font</i>	Arguments for which you supply values are in <i>italic screen font</i> .
→	This pointer highlights an important line of text in an example.
^	The symbol ^ represents the key labeled Control—for example, the key combination ^D in a screen display means hold down the Control key while you press the D key.
< >	Nonprinting characters, such as passwords are in angle brackets.

Notes use the following conventions:



**Note**

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the publication.



**Caution**

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.



**Tip**

Means *the following information might help you solve a problem*.

## Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>



# CHAPTER 1

## SIP Standard Line Interface

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This chapter describes the external interface for Cisco Unified CM SIP line-side devices. It highlights SIP primitives that are supported on the line-side interface and describes call flow scenarios that can be used as a guide for technical support and future development.

This document describes the Cisco Unified CM SIP line interface from an external interface point of view. Chapter 2 provides call flow examples for the standard interface.

This chapter includes these sections:

- [Definitions/Glossary, page 1-1](#)
- [New and Changed Information, page 1-2](#)

## Definitions/Glossary

Acronym/Word	Definition
AOR	Address of Record
BLF	Busy Lamp Field
Cseq	Call Sequence Number
CPN	Calling Party Normalization
CSS	Calling Search Space
CTI	Computer Telephony Integration
DND	Do Not Disturb
DNS	Domain Name Server
DTMF	Dual-Tone Multifrequency
FECC	Far-End Camera Control
FMTF	Format-Specific Parameters
FQDN	Fully Qualified Domain Name
KPML	Key Pad Markup Language
MLPP	Multilevel Precedence and Preemption
MTP	Media Termination Point
MWI	Message Waiting Indication

Acronym/Word	Definition
OOB	Out Of Band
OOD	Out of Dialog
PRACK	Provisional Response ACKnowledgment
RDNIS	Redirected Dialed Number Information Service
RPID	Remote Party ID
RTT	Retransmission Time
SDP	Session Description Protocol
SIP	Session Initiated Protocol
SIS	SIP line Interface Specification
TLS	Transport Layer Security
UAC	User Agent Client
UAS	User Agent Server
URI	Uniform Resource Identifier
URN	Uniform Resource Name
VM	Voice Mail

## New and Changed Information

The release 8.5(1) does not provide any new or changed SIP line interface enhancements.



### Note

This section describes the new features and callflows added to Unified CM 8.5(1). Since no new SIP Line (Std) feature is released with Cisco Unified CM 8.5(1); it is recommended that you view the complete list of existing SIP basic call flows from *SIP Line Messaging Guide (Standard) for Release 8.0(1)* from:

[http://www.cisco.com/en/US/products/sw/voicesw/ps556/products\\_programming\\_reference\\_guides\\_list.html](http://www.cisco.com/en/US/products/sw/voicesw/ps556/products_programming_reference_guides_list.html)