



Cisco Unified Communications Manager SIP Line Messaging Guide (Standard)

For Cisco Unified Communications Manager Release 8.0(1)

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Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
<http://www.cisco.com>
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883

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Preface

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 two chapters.

Chapter	Description
Chapter 1, "SIP Standard Line Interface"	Provides an overview of SIP line messages and standards compliance.
Chapter 2, "SIP Basic Line Call Flows"	Comprises a listing of all SIP line messages, including sequence charts and examples of call flows.

Conventions

This document uses the following conventions:

Convention	Description
boldface font	Commands and keywords are in boldface .
<i>italic</i> font	Arguments for which you supply values are in <i>italics</i> .
[]	Elements in square brackets are optional.
{ 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</code> font.
boldface screen font	Information you must enter is in boldface <code>screen</code> font.
<i>italic screen</i> font	Arguments for which you supply values are in <i>italic screen</i> font.
→	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

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](#)
- [Standard Interface Compliance Summary, page 1-2](#)
- [SIP Message Fields, page 1-12](#)
- [Standard Feature Scenarios, page 1-17](#)

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

Acronym/Word	Definition
MLPP	Multilevel Precedence and Preemption
MTP	Media Termination Point
MWI	Message Waiting Indication
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 8.0(1) provides the following new SIP line interface enhancements:

- [CPN Number Presentation, page 1-9](#)
- [Contact: *, page 1-19](#)
- [Announcements for Certain Call Setup Failures, page 1-24](#)
- [INFO Packages, page 1-25](#)
- [G.Clear Calls, page 1-29](#)

Standard Interface Compliance Summary

This section provides details about Cisco Unified CM SIP line interface standards compliance. The [“Standard Feature Scenarios” section on page 1-17](#) provides a feature implementation-oriented view of how the system works relative to the SIP line-side implementation. Refer to [Chapter 2, “SIP Basic Line Call Flows”](#) for detailed call flows.

Refer to the following tables for SIP line interface compliance:

- [Table 1-1](#) identifies the applicable standards and drafts.
- [Table 1-2](#) and [Table 1-3](#) provide SIP line-side compliance for SIP messages.
- [Table 1-4](#) provides SIP line-side compliance for standard SIP headers.

Table 1-1 *Applicable Standards and Drafts - Standard Interface*

Id	Notes
RFC 3261	SIP
RFC 3262	PRACK
RFC 3264	SDP offer/answer
RFC 3311	UPDATE
RFC 3515	REFER
RFC 3842	MWI Package
RFC 3891	Replaces Header
RFC 3892	Referred-by Mechanism
draft-levy-sip-diversion-08.txt	Diversion Header
draft-ietf-sip-privacy-04.txt	Remote-Party-Id Header

Table 1-2 *Compliance to SIP Requests*

SIP Message	Cisco Unified CM Supported	Comments
INVITE	Yes	The system also supports re-INVITE.
ACK	Yes	—
OPTIONS	Yes	Cisco Unified CM will respond to it if received. Cisco Unified CM does not send OPTIONS request.
INFO	Yes	INFO method is used for video support.
BYE	Yes	—
CANCEL	Yes	—
SUBSCRIBE	No	Refer to Supported Event Packages section.
NOTIFY	Yes	Refer to Supported Event Packages section.
REFER	Yes	The system supports inbound REFER as it applies to transfer. Cisco Unified CM line side does not generate outbound REFER for transfer.
REGISTER	Yes	—
PRACK	Yes	You can configure support for PRACK.
UPDATE	Yes	Cisco Unified CM supports receiving and generating UPDATE.
PUBLISH	No	—

Table 1-3 *Compliance to SIP Responses*

SIP Message	Cisco Unified CM Supported	Comments
1xx Response	Yes	—
100 Trying	Yes	—

Table 1-3 *Compliance to SIP Responses (continued)*

SIP Message	Cisco Unified CM Supported	Comments
180 Ringing	Yes	—
181 Call Forward	No	Cisco Unified CM ignores this message.
182 Queued	No	Cisco Unified CM ignores this message.
183 Progress	Yes	The system supports early media.
2xx Response	Yes	—
200 OK	Yes	—
202 OK	Yes	Message applies for REFER.
3xx Response	Yes	—
300–302, 305, 380, 385	Yes	This message does not generate. The system contacts the new address in the Contact header upon receiving.
4xx Response	Yes	Upon receiving, the system initiates a graceful call disconnect.
401	Yes	Cisco Unified CM SIP sends out message 401 (Unauthorized) if authentication and authorization are enabled. Cisco Unified CM SIP also responds to inbound 401 challenges.
403	Yes	Cisco Unified CM SIP sends out message 403 (Forbidden) if a SIP method is not on the Access Control List. 403 can also get returned if the system does not support a method in a particular state.
407	Yes	Cisco Unified CM SIP responds to inbound 407 (Proxy Authentication Required) challenges.
412	Yes	Cisco Unified CM SIP sends out 412 if a PUBLISH refresh or PUBLISH remove request is received with an unknown entity tag.
423	Yes	Cisco Unified CM SIP 423 if an expired header is received with an expires time lower than the acceptable minimum.
5xx Response	Yes	Upon receiving this message, the system sends a new request if an additional address is present. Otherwise, the system initiates a graceful disconnect.
6xx Response	Yes	This message does not get generated. Upon receiving this message, the system initiates a graceful disconnect.

Table 1-4 *Standard SIP Header Fields*

SIP Headers	Cisco Unified CM Supported	Comments
Accept	Yes	—
Accept-Encoding	No	—
Accept-Language	No	—

Table 1-4 **Standard SIP Header Fields (continued)**

SIP Headers	Cisco Unified CM Supported	Comments
Alert-Info	Yes	Cisco Unified CM sends Alert-Info to indicate internal versus external call.
Allow	Yes	—
Authentication-Info	No	—
Authorization	Yes	—
Call-ID	Yes	—
Call-Info	Yes	—
Contact	Yes	—
Content-Disposition	No	Cisco Unified CM will ignore this header if it gets received. Cisco Unified CM does not generate this header.
Content-Encoding	No	—
Content Language	No	—
Content-Length	Yes	—
Content-Type	Yes	See Supported Content Types.
CSeq	Yes	—
Date	Yes	—
Error-Info	No	—
Expires	Yes	—
From	Yes	—
In-Reply-To	No	—
Max-Forwards	Yes	Cisco Unified CM sets to 70 for outgoing INVITE and does not increment/decrement it.
MIME-Version	Yes	This header gets used with REFER.
Min-Expires	Yes	—
Organization	No	—
Priority	No	—
Proxy-Authenticate	Yes	Cisco Unified CM SIP supports receiving this header in 407 responses.
Proxy-Authorization	Yes	Cisco Unified CM SIP supports sending new request with this header after it receives 407 responses.
Proxy-Require	No	—
Record-Route	Yes	—
Reply-To	No	—
Require	Yes	—
Retry-After	Yes	Send it but ignore receiving it.
Route	Yes	—
Server	Yes	—

Table 1-4 *Standard SIP Header Fields (continued)*

SIP Headers	Cisco Unified CM Supported	Comments
Subject	No	—
Supported	Yes	—
Timestamp	Yes	—
To	Yes	—
Unsupported	Yes	—
User-Agent	Yes	—
Via	Yes	—
Warning	Yes	—
WWW-Authenticate	Yes	—

Proprietary and Nonstandard SIP Headers and Identification Services

Table 1-5 lists the proprietary and nonstandard header fields for the standard SIP line-side interface. Refer to the [“Remote-Party-ID Header”](#) section on page 1-6 for additional information.

Table 1-5 *Proprietary or Nonstandard SIP Header Fields*

SIP Headers	Cisco Unified CM Supported	Comments
Diversion	Yes	Used for RDNIS information. If it is present, it always presents the Original Called Party info. The receiving side of this header always assumes it is the Original Called Party info if present. In case of chained-forwarding to a VM, the message will get left to the Original Called Party.
Remote-Party-ID	Yes	Used for ID services including Connected Name & ID. This nonstandard, non-proprietary header gets included in the Standard Feature Scenarios anyway.

Remote-Party-ID Header

This section describes the SIP Identification Services in the Cisco Unified CM for the SIP line, including Line and Name Identification Services. Line Identification Services include Calling Line and Connected Line Directory Number. Name identification Services include Calling Line Name, Alerting Line Name, and Connected Line Name.

The Remote-Party-ID header provides ID services header as specified in draft-ietf-sip-privacy-03.txt.

The Cisco Unified CM provides flexible configuration options for the endpoint to provide both Alerting Line Name and/or the Connected Line Name. This section does not describe those configuration options; it only provides the details on how Cisco Unified CM sends and receives these ID services to and from the SIP endpoint. The Remote-Party-ID header contains a display name with an address specification followed by optional parameters. The display carries the name while the user part of the address carries the number.

Cisco Unified CM 8.0(1) enables the Cisco Unified CM to route the localized and globalized forms of a calling number to the receiving endpoint, which is known as *Calling Party Normalization* (CPN). For example, when receiving a local call outside an enterprise in North America, it is desirable to display the familiar seven-digit calling number to the endpoint user (for example, 232-5757). To return a call to a local number outside the enterprise, the endpoint user typically dials an access code (for example, 9) to indicate dialing of an external directory number (92325757). This form of the calling number is referred to as the *global* or *globalized* number. The localized form of the calling number is presented in the SIP Remote-Party-ID header as the user part of the address. The globalized form of the calling number is presented as an optional SIP URI parameter.

**Note**

Although the Remote-Party-ID header is nonstandard, many vendors implement it, and it gets included in most Cisco SIP products. Therefore, the standard section of this document includes it, even though it is effectively proprietary. The use of this header is not negotiated. Recipients should ignore it if it is not understood.

Table 1-6 describes the support levels for identification parameters. Subsequent sections cover the following topics:

- [Calling Line and Name Identification Presentation, page 1-8](#)
- [Calling Line and Name Identification Restriction, page 1-8](#)
- [Connected Line and Name Identification Presentation, page 1-9](#)
- [Connected Line and Name Identification Restriction, page 1-9](#)

Table 1-6 Identification Parameters Support

Parameter	Values	Notes
x-cisco-callback-number	various	Ignored if received by Cisco Unified CM. Set to the globalized form of the calling (callback) number. The globalized form of a number is the form that, when dialed by the endpoint, is successfully routed to the desired destination with no editing by the user.

Table 1-6 Identification Parameters Support (continued)

Parameter	Values	Notes
party	calling called	Ignored if Cisco Unified CM receives it. Set to called for outgoing INVITE or UPDATE from Cisco Unified CM. Set to calling for outgoing responses from Cisco Unified CM.
id-type	subscriber user term	Ignored if Cisco Unified CM receives it. Set to subscriber for outgoing requests and responses.
privacy	full name uri off	Supported if Cisco Unified CM receives it. Cisco Unified CM will also support sending all values in either INVITE or UPDATE requests and responses for the same.
screen	no yes	Ignored if Cisco Unified CM receives it. Cisco Unified CM always sends yes when generating a Remote-Party-ID header.

Calling Line and Name Identification Presentation

The system includes the Calling Line (Number) and Name in both the From header and optionally the Remote-Party-ID headers in the initial INVITE message from the endpoint. For example, an incoming INVITE from an endpoint with directory number, 69005, and a Caller ID, “sip line,” for an outbound call will have the following Remote-Party-ID and From headers:

```
Remote-Party-ID: "sip line"
<sip:69005@10.10.10.2>;party=calling;id-type=subscriber;privacy=off;screen=yes
From: "sip line" <sip:69005@10.10.10.2>;tag=1234
```

Calling Line and Name Identification Restriction

The system conveys the SIP Line (Number) and Name restrictions by using the privacy parameter. If neither is restricted, privacy gets specified as off. The details that follow provide other values of privacy (name, uri, and full) with their impact on the various values in the From and Remote-Party-ID headers:

name

Name Restrict only—When name is restricted, the display field (Calling Name) in “From” header gets set to “Anonymous.” The display field in the “Remote-Party-ID” header still includes the actual name, but the privacy field gets set to “name.” For example:

```
Remote-Party-ID: "Anonymous"
<sip:69005@10.10.10.2>;party=calling;id-type=subscriber;privacy=name;screen=yes
From: "Anonymous" <sip:69005@10.10.10.2>;tag=1234
```

uri

Number Restrict only—When number is restricted, the system sets the calling Line to “Anonymous” out in the “From” header; however, it still gets included in the “Remote-Party-ID” header with privacy=uri. For example:

```
Remote-Party-ID: "sip line"
<sip:69005@10.10.10.2>;party=calling;id-type=subscriber;privacy=uri;screen=yes
```

```
From: "sip line" <sip:Anonymous@10.10.10.2>;tag=1234
```

full

Both Name and Number Restrict—When both name and number are restricted, the same principle applies with privacy=full. For example:

```
Remote-Party-ID: "sip line"  
<sip:69005@10.10.10.2>;party=calling;id-type=subscriber;privacy=full;screen=yes  
From: "Anonymous" <sip:Anonymous@10.10.10.2>;tag=1234
```

Connected Line and Name Identification Presentation

Connected Line/Name Identification is a supplementary service that provides the called or connected party number and name.

Cisco Unified CM uses the Remote-Party-ID header in 18x, 200, re-INVITE, and UPDATE messages to convey the connected name and number information. In this example, an endpoint placed a call to 9728135001. Cisco Unified CM determined that this number is for “Bob Jones” and sent that back to the originator in a 180 or 183 message.

```
Remote-Party-ID: "Bob Jones" <sip:  
9728135001@10.10.10.2>;party=called;screen=yes;privacy=off
```

Connected Line and Name Identification Restriction

Similar to Calling ID services, the RPID can restrict the connected number and/or the name independently.

name

Name Restrict only—When name is restricted, the connected name still gets included with privacy=name. For example:

```
Remote-Party-ID: "Bob Jones"<9728135001@localhost; user=phone>;  
party=called;screen=no;privacy=name
```

uri

Number Restrict only—When number is restricted, the connected number still gets included with privacy=uri. For example:

```
Remote-Party-ID: "Bob Jones"<9728135001@localhost; user=phone>;  
party=called;screen=no;privacy=uri
```

full

Both Name and Number Restrict—When both name and number are restricted, both information parameters get included with privacy=full. For example:

```
Remote-Party-ID: "Bob Jones"<9728135001@localhost; user=phone>;  
party=called;screen=no;privacy=full
```

CPN Number Presentation

Calling Party Normalization is a supplementary service which provides the calling number in a localized (normalized) and globalized format. Both forms of the calling number may appear in any of the SIP request or response messages where the Remote-Party-ID is present. The localized form of the calling number is presented as the user part of the SIP URI. The globalized form is presented as an optional SIP URI parameter. For example:

```
Remote-Party-ID: "sip line"
<sip:2325757@10.10.10.2;x-cisco-callback-number=99192325757>;party=calling;id-type=subscriber;privacy=off;screen=yes
```

Because this is an optional URI parameter, endpoints that do not support the x-cisco-callback-number parameter should ignore it.

Supported Media Types

Refer to the following tables for supported media types at the SIP line interface:

- For supported audio media types, see [Table 1-7](#).
- For supported video media types, see [Table 1-8](#).
- For supported application media types, see [Table 1-9](#).
- For supported T38fax media types, see [Table 1-10](#).

Table 1-7 Supported Audio Media Types

Type	Encoding Name	Payload Type	Comments
G.711 μ -law	PCMU	0	—
GSM Full-rate	GSM	3	—
G.723.1	G723	4	—
G.711 A-law	PCMA	8	—
G.722	G722	9	—
G.728	G728	15	—
G.729	G729	18	Supports all combinations of annex A and B.
RFC2833 DTMF	Telephony-event	Dynamically assigned	Acceptable range is 96 through 127.
G.Clear	CLEARMODE	Dynamically assigned	Typically 125 for all Cisco products. Cisco Unified CM supports other encoding names such as X-CCD, CCD, G.nX64 as well.

Table 1-8 Supported Video Media Types

Types	Encoding Name	Payload Type
H.261	H261	31
H.263	H263	34
H.263+	H263-1998	Acceptable range is 96-127.
H.263++	H263-2000	Acceptable range is 96-127.
H.264	H264	Acceptable range is 96-127.

Table 1-9 Supported Application Media Types

Types	Encoding Name	Payload Type
H.224 FECC	H224	Acceptable range is 96-127.

Table 1-10 Supported T38fax Payload Types

Types	Encoding Name	Payload Type
T38fax	Not applied	Not applied

Supported Event Packages

Table 1-11 provides supported event packages at the SIP line interface.

Table 1-11 Supported Event Packages

Event Package	Supported	Subscription or Unsolicited	Comments
message-summary	Yes	Unsolicited	Used for Message Waiting Indication notifications.
kpml	Yes	Subscription	Used for digit collection and DTMF relay.
dialog	Yes	Subscription	Used for hook status (offhook and onhook only). Used for shared line remote state notifications.
presence	Yes	Subscription	Used for BLF speed dials. Used for DND status. Used for missed, placed, and received calls as well as other directory services. Used for BLF alert indicator.
refer	Yes	Subscription	Used to carry sipfrag responses during call transfer. Used to carry remotecc responses.
service-control	Yes	Unsolicited	Used to send service control notifications to the endpoint.

Supported Content Types

Table 1-12 provides supported content types at the SIP line interface.

Table 1-12 **Supported Content Types**

Content Type	Comments
text/plain	See message-summary package.
message/sipfrag;version=2.0	See refer package as used for transfer.
application/pidf+xml	See presence package.
application/dialog-info+xml	See dialog package.
application/kpml-request+xml	See kpml package.
application/kpml-response+xml	See kpml package.
application/x-cisco-remotecc-request+xml	See refer package and remotecc.
application/x-cisco-remotecc-response+xml	See refer package and remotecc.
application/x-cisco-remotecc-cm+xml	See refer package and remotecc.
application/x-cisco-servicecontrol	See service-control package.
application/x-cisco-alarm+xml	See Phone Alarm System.
multipart/mixed	See refer package and remotecc.

SIP Message Fields

Cisco Unified CM SIP line supports request messages and response messages. The request messages include INVITE, ACK, OPTIONS, BYE, CANCEL, PRACK, and UPDATE methods. The response message comprises the status line with various status codes (1xx, 2xx, 3xx, 4xx, 5xx and 6xx). SIP line supports all mandatory fields in the SIP standard interface.

Request Messages

The following sections provide individual summaries for some types of SIP requests. These sections examine the dialog-initiating requests. You can deduce the values that midcall transactions use from these requests. Consult the call flows in [Chapter 2, “SIP Basic Line Call Flows,”](#) for additional information.

The SIP Request messages detailed in this section include:

- [INVITE, page 1-12](#)
- [ACK, page 1-13](#)

INVITE

Table 1-13 provides the fields of INVITE SIP Request message.

Table 1-13 INVITE Message Fields

Message Lines	Variable	Incoming (to Cisco Unified CM)	Outgoing (from Cisco Unified CM)
INVITE sip:userpart@destIP:destPort SIP/2.0	userpart	Called Party Number	Calling Party Number
	destIP	Cisco Unified CM IP address or FQDN	Endpoint IP address
	destPort	Cisco Unified CM SIP port	Endpoint SIP port
Via: SIP/2.0/UDP ip:port;Branch=number	ip	Endpoint IP address	Cisco Unified CM IP address
	port	Endpoint SIP port	Cisco Unified CM SIP port
	number	Endpoint branch number	Cisco Unified CM branch number
From: "display" <sip:userpart@ip>;tag=from-tag	display ¹	Calling Party Name	Calling Party Name
	userpart	Calling Party Number	Calling Party Number
	ip	Cisco Unified CM IP address or FQDN	Cisco Unified CM IP address
	from-tag	Endpoint local tag	Cisco Unified CM local tag
To: <sip:userpart@destIP>	userpart	Called Party Number	Called Party Number
	destIP	Cisco Unified CM IP address or FQDN	Endpoint IP address
Remote-Party-ID: "display" <sip:userpart@ip>;params	display	Calling Party Name	Calling Party Name
	userpart	Calling Party Number	Calling Party Number
	ip	Endpoint IP address	Cisco Unified CM IP address
	params	Varies per Endpoint	Varies per Cisco Unified CM configuration
Call-ID: string	string	Endpoint-generated string	Cisco Unified CM generated string
Contact: <sip:userpart@ip:port >	userpart	Calling Party Number	Calling Party Number
	ip	Endpoint IP address	Cisco Unified CM IP address
	port	Endpoint port	Cisco Unified CM port
Cseq: number method	number	sequence number	Sequence number
	method	SIP method	SIP method
Max-Forwards: number	number	Max forwards	Max forwards
SDP [sdp]	sdp	Endpoint SDP	Cisco Unified CM typically uses delayed media.

1. Any display field in any SIP header can be encoded as ASCII or Unicode.

ACK

The ACK message values will reflect the values that were established by the INVITE/18x/200 message sequence.

**Note**

The ACK may contain SDP and Remote-Party-ID headers.

Response Messages

**Note**

The order of the outgoing and incoming columns is switched in the following table compared to the preceding table for the INVITE messages. This way, the columns align according to dialog across these tables; in other words, an incoming INVITE to Cisco Unified CM results in an outgoing 180 message.

The SIP Response messages that are detailed in this section include

- [180 Ringing, page 1-14](#)
- [183 Session Progress, page 1-15](#)
- [2xx, page 1-15](#)

180 Ringing

[Table 1-14](#) provides the fields of 180 Ringing SIP Response message.

Table 1-14 **180 Ringing Message Fields**

Message Lines	Variable	Outgoing (from Cisco Unified CM)	Incoming (to Cisco Unified CM)
SIP/2.0 180 Ringing			
Via: SIP/2.0/UDP ip:port;Branch=number	ip	Endpoint IP address	Cisco Unified CM IP address
	port	Endpoint SIP port	Cisco Unified CM SIP port
	number	Endpoint branch number	Cisco Unified CM branch number
From: "display"<sip:userpart@ip>;tag=from-tag	display	Calling Party Name	Calling Party Name
	userpart	Calling Party Number	Calling Party Number
	ip	Cisco Unified CM IP address or FQDN	Cisco Unified CM IP address
	from-tag	Endpoint local tag	Cisco Unified CM local tag
To: <sip:userpart@destIP>;tag=to-tag	userpart	Called Party Number	Called Party Number
	destIP	Cisco Unified CM IP address or FQDN	Endpoint IP address
	to-tag	Cisco Unified CM local tag	Endpoint local tag
Remote-Party-ID: "display" <sip:userpart@ip>;params	display	Called Party Name	Called Party Name
	userpart	Called Party Number	Called Party Number
	ip	Cisco Unified CM IP address	Endpoint IP address
	params	Varies per Cisco Unified CM processing	Varies per endpoint processing

Table 1-14 180 Ringing Message Fields (continued)

Message Lines	Variable	Outgoing (from Cisco Unified CM)	Incoming (to Cisco Unified CM)
Call-ID: string	string	Endpoint-generated string from the initial INVITE	Cisco Unified CM-generated string from the initial INVITE
Contact: <sip:userpart@ip:port >	userpart	Called Party Number	Called Party Number
	ip	Cisco Unified CM IP address	Endpoint IP address
	port	Cisco Unified CM port	Endpoint port
Cseq: number INVITE	number	Sequence number from initial INVITE	Sequence number from initial INVITE

183 Session Progress

The 183 message establishes early media. Cisco Unified CM will include SDP in a 183 message that is sent to an endpoint. The Remote-Party-ID header may have changed as well. Otherwise, a 183 carries the same values as a 180.

2xx



Note

Most 2XX values match the 180 message; 200 carries SDP. Also, the Remote-Party-ID may have changed after a 18x message was sent.

Table 1-15 provides the fields of 2xx SIP Response message.

Table 1-15 2XX Message Fields

Message Lines	Variable	Outgoing (from Cisco Unified CM)	Incoming (to Cisco Unified CM)
SIP/2.0 200 OK			
Via: SIP/2.0/UDP ip:port;Branch=number	ip	Endpoint IP address	Cisco Unified CM IP address
	port	Endpoint SIP port	Cisco Unified CM SIP port
	number	Endpoint branch number	Cisco Unified CM branch number
From: "display"<sip:userpart@ip>;tag=from-tag	display	Calling Party Name	Calling Party Name
	userpart	Calling Party Number	Calling Party Number
	ip	Cisco Unified CM IP address or FQDN	Cisco Unified CM IP address
	from-tag	Endpoint local tag	Cisco Unified CM local tag
To: <sip:userpart@destIP>;tag=to-tag	userpart	Called Party Number	Called Party Number
	destIP	Cisco Unified CM IP address or FQDN	Endpoint IP address
	to-tag	Cisco Unified CM local tag	Endpoint local tag

Table 1-15 2XX Message Fields (continued)

Message Lines	Variable	Outgoing (from Cisco Unified CM)	Incoming (to Cisco Unified CM)
Remote-Party-ID: "display" <sip:userpart@ip>;params	display	Called Party Name	Called Party Name
	userpart	Called Party Number	Called Party Number
	ip	Cisco Unified CM IP address	Endpoint IP address
	params	Varies per Cisco Unified CM processing	Varies per endpoint processing
Call-ID: string	string	Endpoint-generated string from the initial INVITE	Cisco Unified CM- generated string from the initial INVITE
Contact: <sip:userpart@ip:port >	userpart	Called Party Number	Called Party Number
	ip	Cisco Unified CM IP address	Endpoint IP address
	port	Cisco Unified CM port	Endpoint port
Cseq: number INVITE	number	Sequence number from initial INVITE	Sequence number from initial INVITE
SDP [sdp]	sdp	Cisco Unified CM SDP	Endpoint SDP

Message Timers

The following timers are service parameters that are configurable in Cisco Unified Communications Manager Administration.

Table 1-6 provides the configuration data for the SIP timers that is maintained by Cisco Unified CM.

Table 1-16 Message Timers

Message	Value (Default/Range)	Definition
trying	500 ms / 100–1000 ms	The time to wait for a 100 response to an INVITE request
connect	500 ms / 100–1000 ms	The time to wait for a 200 response to an ACK request
disconnect	500 ms / 100–1000 ms	The time to wait for a 200 response to a BYE request
expires	3 min / 1–5 min	Limits the time duration for which an INVITE is valid
rellxx	500 ms / 100–1000 ms	The time that Cisco Unified CM should wait before retransmitting the reliable lxx responses
prack	500 ms / 100–1000 ms	The time that Cisco Unified CM should wait before retransmitting the PRACK request
notify	500 ms / 100–1000 ms	The time that Cisco Unified CM should wait before retransmitting the Notify message
Publish	2147483647	Cisco Unified CM does not manage a timer for aging out published event state data it receives from endpoints. Cisco Unified CM requires endpoints to specify an expires time of 2147483647 when publishing event state data to Cisco Unified CM.

Message Retry Counts

All the following retry counts are service parameters that are configurable in Cisco Unified Communications Manager Administration. In case of TCP transportation type, the timers will still pop as usual. In the event of timeout, however, the stack will not retransmit; it will rely instead on TCP itself to do the retry.

[Table 1-17](#) provides the configuration data for the SIP retries, that is maintained by Cisco Unified CM.

Table 1-17 **Message Retry Counts**

Counter	Default Value	Suggested Range	Definition
Invite retry count	5	1–10	Number of INVITE retries
Response retry count	6	1–10	Number of RESPONSE retries
Bye retry count	10	1–10	Number of BYE retries
Cancel retry count	10	1–10	Number of Cancel retries
PRACK retry count	6	1–10	Number of PRACK retries
Rel1xx retry count	10	1–10	Number of Reliable 1xx response retries
Notify retry count	6	1–10	Number of NOTIFY retries

Standard Feature Scenarios

This section provides details with respect to overall flow and handling of standard SIP features on the Cisco Unified CM line-side interface. This includes, but is not limited to, the following features:

- [Registration, page 1-18](#)
- [Basic Call, page 1-19](#)
- [Simple Hold and Resume, page 1-19](#)
- [Transfer, page 1-20](#)
- [Three-Way Calling, page 1-21](#)
- [Call Forwarding, page 1-22](#)
- [Message Waiting Indication, page 1-23](#)
- [Endpoint Returns 302 Redirect, page 1-23](#)
- [Endpoint Returns 486 Busy, page 1-23](#)
- [Announcements for Certain Call Setup Failures, page 1-24](#)
- [INFO Packages, page 1-25](#)
- [G.Clear Calls, page 1-29](#)

For scenario descriptions and associated call flows, refer to [Chapter 2, “SIP Basic Line Call Flows.”](#)

Registration

Cisco Unified CM supports standard RFC3261 registration from any compliant SIP phone. Because Cisco Unified CM is a B2BUA, however, it must be able to uniquely identify the registering device to match that device with a configuration entry in the database. Furthermore, Cisco Unified CM must be able to identify the originating device (and line) for all other SIP requests that it receives (INVITE, REFER, SUBSCRIBE, and so on) to authorize, filter, and route the message. Because standard SIP does not provide a consistent and unambiguous mechanism for identifying the originating device, for standard registration, Cisco Unified CM relies on the HTTP digest user ID to identify the sending device.

Knowledge of the sending device and line allows Cisco Unified CM to apply various routing, authorization, and filtering logic to incoming registrations, subscriptions, and invites.

The system supports TCP and UDP transports for Standard registration, but not TLS.

Source Device ID for RFC3261-Compliant Phones

Cisco Unified CM must uniquely identify the device sending the REGISTER message to apply authentication, routing, and filtering. The Contact IP address is not suitable because it can change dynamically if DHCP is used. Instead, Cisco Unified CM uses the HTTP digest user ID. Each device that is configured in Cisco Unified CM requires a unique digest user ID. When the device sends the REGISTER, Cisco Unified CM will immediately respond with a 401 challenge to get the Authentication header. The system uses the user ID from the authentication header to find the configuration entry in the database. If the third-party phone is not configured with the correct user ID, or the user ID is not associated with the device in the Cisco Unified CM database, Cisco Unified CM will respond with a 404 Not Found.

MultiLine Registration

Multiple lines can register with Cisco Unified CM if each line has a unique directory number. The directory number must appear in the To and From header of the REGISTER, and it must be numeric.

REGISTER Refresh (Keepalive)

Cisco Unified CM uses REGISTER refreshes as keepalive messages to ensure the phone is still alive and connected. When the phone first registers with Cisco Unified CM, the 200OK response will include an Expires header with the configured keepalive interval. The phone must send a REGISTER refresh within this interval with the same Call ID, Contact IP address, and Contact port number. If Cisco Unified CM fails to receive a keepalive message within the configured interval (default 120 seconds), it will unregister the phone internally, so no calls can originate from or terminate to the phone.

Device Binding

After the device has been identified by the digest user ID, the system creates a binding within Cisco Unified CM between that device ID and the transport address. This binding gets created because Cisco Unified CM must identify the sending device for all subsequent requests from the phone (INVITE, REFER, SUBSCRIBE, and so on), and these requests do not contain the device ID. However, these requests do contain source transport information, so the binding gets created between the device ID and the transport information. The transport information that is used differs for UDP and TCP.

For UDP, the system creates the binding between the device ID and the IP address and port number in the Contact header. After the first REGISTER message is sent, all subsequent requests must use the same IP address and port number in the Contact header. If it changes, a 5xx error response gets returned because Cisco Unified CM cannot route the message.

For TCP, the system uses a combination of Contact binding and TCP connection binding. When a device registers over a TCP connection, Cisco Unified CM cannot determine whether the TCP connection will be transient (a new connection gets used for each transaction) or persistent. Therefore, Cisco Unified CM initially binds the device ID to the Contact IP address and port number. After several transactions get sent over the same TCP connection, the system considers it as proved-in and marks it as persistent. At this point, a binding gets created between the device ID and the TCP connection.

Multiple Bindings for the Same AOR

Cisco Unified CM includes a minor deviation from RFC3261 for the case of multiple registration bindings for a single address of record. Under the Cisco Unified CM architecture, if three devices are configured to have a shared line at 321-1000, each will register a contact in the form of 3211000@ip:port for that line. Each device will have its own unique IP address and thus have a unique contact for that line. RFC3261 states that, upon registration, all known contact bindings shall be returned to the registering entity in the 200OK response. Cisco Unified CM will only return the contact binding of the registering device during each registration; it will not enumerate other bindings that it knows about for a given AOR during registration. A registering endpoint should not rely on the binding list that is returned in the 200OK response as an exhaustive list for all bindings that are associated with the AOR. In addition, an endpoint cannot modify bindings for another device through Cisco Unified CM; it can only refresh or delete its own binding.

Contact: *

Cisco Unified CM deviates from RFC3261 in that it does not support the Contact: * format. This format is often used to unregister all contacts currently associated with an AOR. However Cisco Unified CM requires that the Contact header in each REGISTER message must contain the SIP URI identifying the device, and the unregister message (REGISTER with Expires: 0) must contain the same Contact header as the original REGISTER message.

This restriction occurs because Cisco Unified CM must be able to identify the source device for each incoming SIP message, and it uses the Contact header for that purpose. Cisco Unified CM cannot use the AOR in the To header because the shared line feature allows multiple different source devices to have the same AOR; thus, it is not unique to a specific device.

Basic Call

Cisco Unified CM follows the procedures that are described in RFC 3261, 3262, and 3264 to establish and clear down basic SIP calls. Often, on the outgoing side, Cisco Unified CM will send out INVITE without SDP. This allows Cisco Unified CM to discover the capabilities of both sides and provide media services in between if necessary (for example, transcoding).

Simple Hold and Resume

Cisco Unified CM SIP line side supports simple media hold as per RFC 2543 (a.k.a. c = 0) or as per RFCs 3261 and 3264 (a = sendonly or a = inactive).

Transfer

SIP line-side Transfer uses the REFER message, and REFER with an embedded Replaces header, as per RFC 3515.

The following three participants exist for call transfer:

- Transferee—The person who is being transferred.
- Transferor—The person who is transferring the call.
- Transfer Target (Target)—The person who is receiving the transfer.

Cisco Unified CM supports three types of transfer:

- Attended (also known as Consultative)
- Early Attended
- Blind

Attended Transfer

With attended transfer, the transferor places the transferee on hold and calls the target. After conversing with the target, the transferor completes the transfer and drops out of the call. The transferee automatically gets taken off hold and connected to the target.

Attended transfer involves two somewhat independent dialogs at the transferor device up until the time the device sends a REFER with embedded replaces header. When this message is received, Cisco Unified CM knows that the calls are associated.

Because Cisco Unified CM is a B2BUA, a REFER with embedded replaces does not trigger an INVITE with replaces from the transferee to the transfer target. The dialogs between Cisco Unified CM and each phone stay independent. Instead, Cisco Unified CM reINVITEs (and UPDATEs) the transferee and transfer target to connect them together. During this process, the transferor will receive sipfrag NOTIFY messages. After the connection is complete, both dialogs between Cisco Unified CM and transferor get BYE'd.

The following more detailed view shows what happens when the REFER is received:

1. Split transferor and transferee call:
 - reINVITE to disconnect media.
2. Split transferor and transfer target call:
 - reINVITE to disconnect media.
3. Join transferee and transfer target call legs:
 - a. reINVITE to connect media.
 - b. UPDATE display name and number via Remote-Party-ID header.
4. Clear transferor dialogs.

Early Attended Transfer

With early attended transfer, the transferor places the original call on hold and calls the target. Upon receiving a ringback tone, the transferor transfers the call to the target and drops out of both calls. The transferee receives a ringback while the target phone is alerting. When the target answers, the system establishes a connection between transferee and target.

The transferor call flow, which uses a REFER with embedded replaces header, is based on the existing implementation of this feature on the SIP phones and gateways. The problem with this implementation in a peer-to-peer environment is the failure to support parallel forking to multiple targets. Version 04 of the replaces draft specifically precludes a UAS from accepting a replaces header that was not initiated by that UA. The receiving UAS must to return a 481 message in that situation. Instead, the existing implementation honors the request and replaces the early dialog. That causes it to send a 487 message back to the transferor.

Early attended transfer involves two somewhat independent dialogs at the transferor device up until the time the device sends a REFER with embedded replaces header. When this message is received, Cisco Unified CM registers that the calls are associated. Because Cisco Unified CM is a B2BUA, a REFER with replaces header does not trigger an INVITE with replaces from the transferee to the transfer target. The dialogs between Cisco Unified CM and each phone stay independent. Instead, Cisco Unified CM reINVITEs (and UPDATEs) the transferee and transfer target to connect them together. During this process, the transferor will receive sipfrag NOTIFY messages. After the connection is complete, both dialogs between Cisco Unified CM and transferor get BYE'd.

The following more detailed view shows what happens when the REFER is received:

1. Split transferor and transferee call:
 - reINVITE to disconnect media.
2. Split transferor and transfer target call:
 - reINVITE sent to transferor to disconnect media.
3. Join transferee and transfer target call legs:
 - a. reINVITE to connect media.
 - b. UPDATE display name and number via Remote-Party-ID header.
 - c. Clear transferor dialogs.

The transferee will **not** receive a ringback although the target is alerting.

Blind Transfer

With blind transfer, the transferor places the original call on hold and dials the target. The transferor then uses SIP REFER to redirect the transferee to the target. No call gets made to the target prior to transfer. The timing for when the transferor drops out of the call depends on the transferor implementation of the feature, but, most likely, the drop occurs when the transferor is notified that the redirect operation was accepted and has begun.

The REFER does not contain an embedded replaces as it does for attended and early attended transfer.

Three-Way Calling

Many SIP phones support local mixing by the endpoint. For example, the existing SIP implementation on the Cisco Unified IP Phone 7960/40 supports it. It will continue to work for Cisco Unified CM line-side SIP endpoints. To support local mixing on the phone, Cisco Unified CM must allow the endpoint to have multiple active calls. Cisco Unified CM will allow this for SIP endpoints. From the Cisco Unified CM perspective, a locally mixed three-way call (or an n-way call) just looks like individual active calls. Cisco Unified CM does not perceive local mixing. Cisco Unified CM conference-related features like Conference List and Remove Last Party do not apply.

In a SIP environment, the endpoint that is hosting a three-way call can drop out and arrange to have the remaining two parties connected together. With SIP, the system accomplishes this by using REFER with embedded replaces. Prior to this action, two calls with four dialogs exist:

1. A.1 to B call:
 - a. A.1 to Cisco Unified CM dialog.
 - b. Cisco Unified CM to B dialog.
2. A.2 to C call:
 - a. A.2 to Cisco Unified CM dialog.
 - b. Cisco Unified CM to C dialog.

Phone A can drop out of the call by sending an in-dialog REFER on dialog A.1 with an embedded replaces header that specifies dialog A.2. Cisco Unified CM will invoke its attended transfer feature, which results in the remaining parties being connected together. Refer to the [“Attended Transfer” section on page 1-20](#) for details regarding the operation of that feature.

Call Forwarding

Call Forwarding occurs when a call does not get answered by the original called party but, instead, gets presented to one or more subsequent forwarded parties. Cisco Unified CM supports three types of forwarding:

- Call Forward All (also known as Call Forward Unconditional)
- Call Forward No Answer
- Call Forward Busy

In only in the call forward no answer case does the call actually get presented to the original called party. Cisco Unified CM detects call forward all and call forward busy prior to sending an INVITE to the called party, so forwarding bypasses that party. Call forward no answer will get detected via a timer in Cisco Unified CM, so Cisco Unified CM will initiate the canceling of the call to the original called party.

Older Cisco phones that use SIP or third-party SIP phones may elect to implement forward all and forward busy locally on the phone, in which case they will need to use 302 (see [“Endpoint Returns 302 Redirect” section on page 1-23](#)) and 486 (see [“Endpoint Returns 486 Busy” section on page 1-23](#)) response codes, respectively, to the INVITE.

Cisco Unified CM informs the calling party that their call has been forwarded via “Remote-Party-ID:” headers in updated 180 messages. The type of forwarding does not get communicated to the calling party.

For example:

```
Remote-Party-ID: "Line 1030 Name"  
<sip:1030@172.18.203.78>;party=called;id-type=subscriber;privacy=off;screen=yes
```

Cisco Unified CM indicates forwarding to the called (or current forwarded-to) party by using “Diversion:” headers in subsequent INVITES. Cisco Unified CM will report, at most, two diversion headers. The first will indicate the last forwarding party, and the second will indicate the original called party. In a single-hop forwarding case, the system uses only a single diversion header because the original called party and last forwarding parties are the same. In a three-or-more-hop case, the intermediate parties do not get communicated to the current forwarded-to party. For example

```
Diversion: "Line 1020 Name"  
<sip:1020@172.18.203.99>;reason=no-answer;privacy=off;screen=yes
```

```
Diversion: "Line 2020 Name"  
<sip:2020@172.18.203.99>;reason=unconditional;privacy=off;screen=yes  
Diversion: "Line 3020 Name"  
<sip:3020@172.18.203.99>;reason=user-busy;privacy=off;screen=yes
```

The phone may activate Call Forward All via a softkey.

Message Waiting Indication

The system triggers activation of the Message Waiting Indication (MWI) on the phone via an unsolicited NOTIFY from Cisco Unified CM. The NOTIFY will have an event type of “message-summary” and a message body with content type of “application/simple-message-summary” and a body that contains either “Messages-Waiting: yes” to instruct the phone to turn on its MWI or “Messages-Waiting: no” to instruct the phone to turn off its MWI.

This MWI Notify will get sent whenever that Cisco Unified CM detects that the phone MWI status should change. This could occur if a message is left for that subscriber on a connected voice messaging server and that voice messaging server informs Cisco Unified CM or if all messages are cleared. Additionally, this NOTIFY that contains the current MWI state always gets sent during registration of a line, so phones with flash memory have the latest MWI state that is known to Cisco Unified CM.

Endpoint Returns 302 Redirect

Because not all SIP phones will support the enhanced call forward all activation behavior to synchronize the call forward all state between the phone and Cisco Unified CM, some phones may allow the user to configure a call forward number on the phone locally and then return a 302 message to an INVITE instead.

The 302 message must contain a “Contact:” header that indicates the party to which the call should be forwarded. A phone that sends a 302 should also include a “Diversion:” header that includes its own name and number as well as the reason for forwarding.

When Cisco Unified CM receives a 302 message from a phone, the system presents the call to the next party that is indicated in the contact header of that 302 with the diversion header from the 302 that is listed first (assuming the next party is also a SIP device). If that next party also forwards, the diversion header that is sent in the first 302 may get passed along to subsequent forwarded-to parties if the phone that is sending the 302 was the original called party.

Endpoint Returns 486 Busy

You can configure all lines on a Cisco Unified CM with a “busy trigger.” After the number of active calls to that line reaches the busy trigger, Cisco Unified CM will prevent further calls from being presented to that phone by initiating a call forward busy without sending another INVITE to the phone.

However, due to misconfiguration or the potential for calls of which Cisco Unified CM is not aware to exist on the phone (for example, a phone in a dialing state that has not yet sent an INVITE), the phone may need to manage its own busy trigger and autonomously throttle calls. Phones accomplish this by sending a 486 response code to an INVITE.

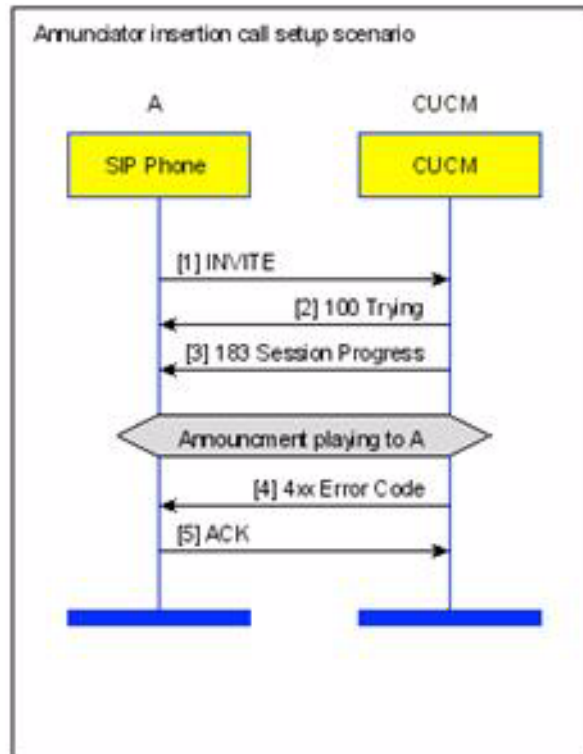
Although Cisco Unified CM may have Call Forward Busy behavior configured for a line (for example, forward to DN or forward to a voice-messaging system), that behavior does not get exercised when a 486 message is received from the phone. Instead, the 486 message will be passed back to the original called party.

Announcements for Certain Call Setup Failures

When Party A calls Party B, there are circumstances in which the call cannot complete and an announcement as to the reason for the call failure is played to party A. A simple example is when party A misdials the B's number and the misdialled number does not exist. This results in a vacant code error.

In this same scenario if Party A were a SCCP phone, then party A would be connected to an annunciator and would receive an announcement similar to *"Your call cannot be completed as dialed. Please consult your directory and call again or ask your operator for assistance. This is a recording."* Once the announcement is completed, the Party A would hear the re-order tone if they were still offhook. Previous to Cisco Unified CM 8.0 if Party A were SIP, they would immediately hear re-order locally on the phone as a result of the 4xx SIP error message and not hear the announcement- Cisco Unified CM 8.0, SIP phones now have parity for error scenarios where an announcement is performed (for example, vacant code).

The call flow for these announcements utilizes standard SIP. A sample of the flow is shown below. In this scenario, announcement is played and the 4xx/5xx error code is sent as before. The SIP 183 contains SDP.

Figure 1-1 Annunciator Insertion Call Setup Scenario

Error scenarios that may result in announcements during call setup include vacant code and certain call setup failures that result from MLPP.

INFO Packages

During the life of an INVITE dialog, INFO packages allow SIP UA's to exchange negotiated content without managing and correlating a subscription. The INFO package negotiation occurs during initial call setup and is remembered throughout the life of the INVITE dialog. This is independent of the number of times the endpoint is subject to some feature interaction such as transfer or conference.

Unified Communication Manager supports the conference package. The negotiation works according to the rules spelled out in the following draft:

draft-ietf-sip-info-events-01.txt.

INFO Conference Package Negotiation

Unified Communication Manager is a B2BUA. As such, each endpoint has their own specific INVITE dialog with Unified Communication Manager, when a call is established. Due to feature invocations, Unified Communication Manager can move the media around, while maintaining the original INVITE dialog. For example, if **A** transfers **B** to **C**, **B** and **C** just get reINVITEs and UPDATES to redirect their media towards each other and to update the connected party information. The original dialogs established between **B** and Unified Communication Manager and **C** and Unified Communication Manager prior to the transfer remain intact.

The conference INFO package negotiation occurs during initial call setup and is remembered throughout the life of the INVITE dialog. This is independent of the number of times the endpoint is subject to some feature interaction such as transfer or conference. The actual conference package XML is borrowed from the following RFC:

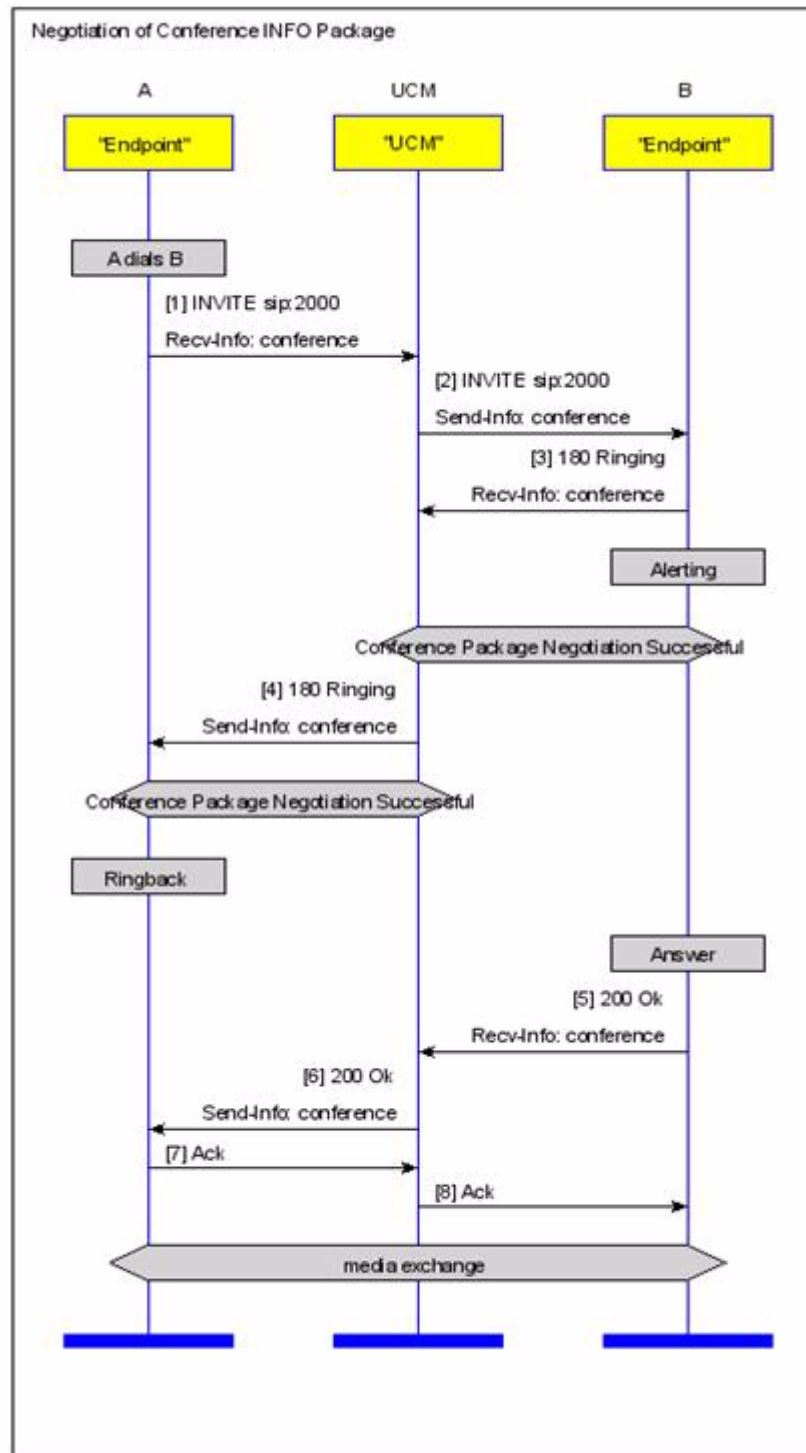
RFC-4575, A Session Initiation Protocol (SIP) Event Package for Conference State

RFC defines the package in the context of the SUBSCRIBE/NOTIFY framework. The same XML schema can be used in the INFO event package framework.

The negotiation within the context of Unified Communication Manager works the following way:

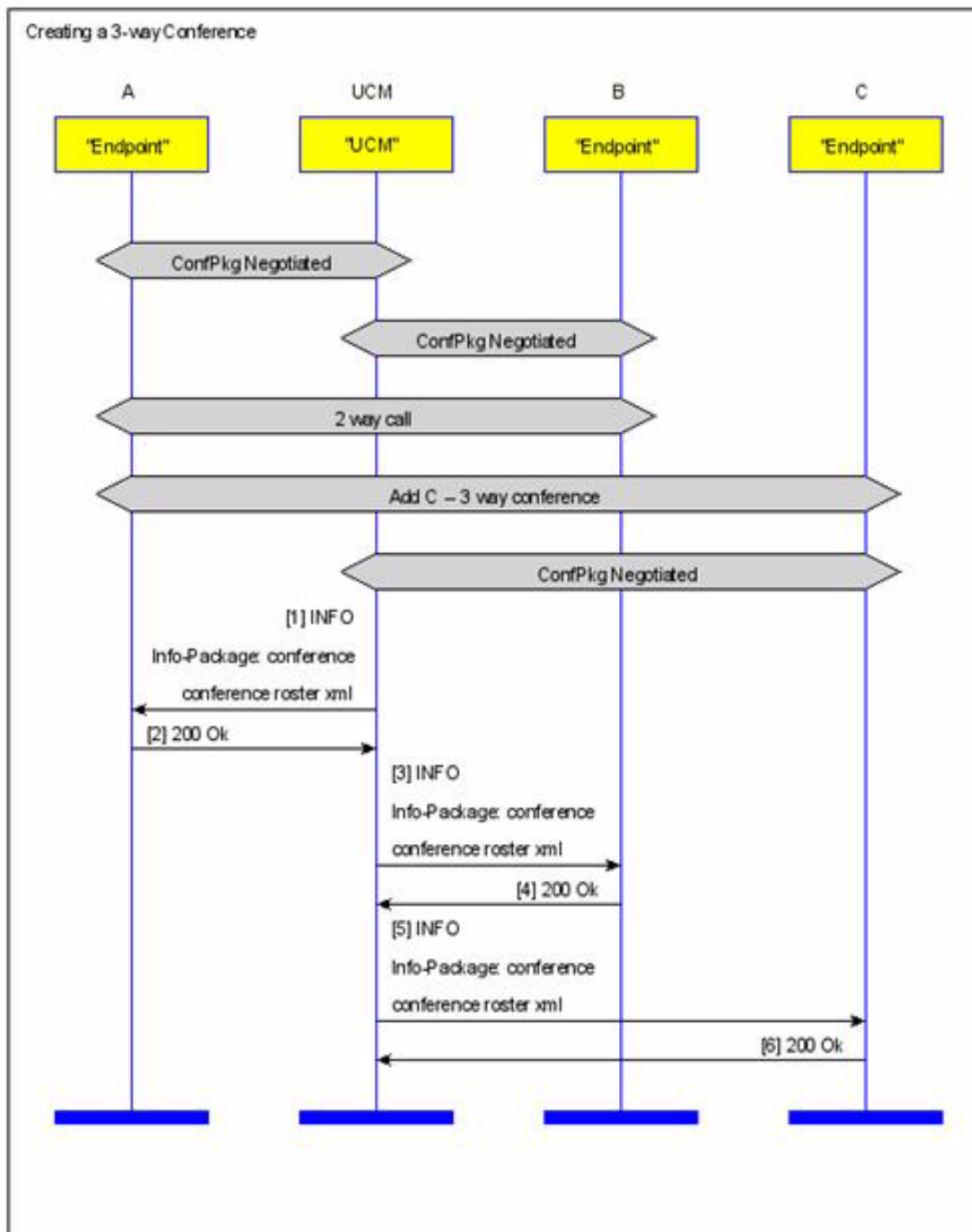
When **A** calls **B**, this is two distinct dialogs since Unified Communication Manager is a B2BUA. In this example, **A** is the initiator of the dialog between **A** and Unified Communication Manager. On the other hand, Unified Communication Manager is the initiator of the dialog between Unified Communication Manager and **B**. The negotiation works based on who initiates the dialog and who is the sender versus receiver of the data. In our example, **A** and **B** are receivers and Unified Communication Manager is the sender of conference roster updates. [Figure 1-2](#) shows how Send-Info and Recv-Info headers are used in this example to negotiate usage of INFO conference package. If an endpoint doesn't include the header, Recv-Info: conference, then Unified Communication Manager will not send INFO messages with the conference package if the call is later connected to a conference.

Figure 1-2 Negotiation of Conference INFO Package



Having negotiated use of the INFO conference package, the endpoint must be ready to receive conference INFO at any time during the life of the dialog. It may find itself in and out of conferences throughout the life of the dialog. End of the conference does not guarantee that the endpoint will not receive more conference updates. The call could transit from 3 way to 2 way and back to 3 way. Figure 1-3 depicts creation of a 3 way conference:

Figure 1-3 **Creating 3-way Conference**



G.Clear Calls

Cisco Unified CM supports voice and video calls. It also establishes a media session between two registered SIP endpoints using the G.Clear codec. A G.Clear media session uses RTP to establish a 64kbps transparent data channel between two devices. This allows data streams generated by ISDN terminals to be transparently being carried via an IP network. Please refer to RFC 4040 for details.

Cisco Unified CM supports the following:

1. G.Clear codec (RFC 4040) handling in SIP signaling and codec negotiation.
2. Including SDP in the outgoing INVITE from Cisco Unified CM for G.Clear calls without requiring an MTP.

Example SDP for G.Clear Call

SIP endpoints capable of initiating a G.Clear calls sends the indication by using the G.Clear codec in the m=audio line of the INVITE SDP.



Note

Only third party SIP devices are capable of initiating a G.Clear call with Cisco Unified Communication Manager.

Example SDP having a G.Clear codec:

```
v=0
o=XYZ 317625 317625 IN IP4 172.18.199.61
s=XYZ
c=IN IP4 172.18.199.61
t=0 0
m=audio 30002 RTP/AVP 125
a=rtpmap:125 CLEARMODE/8000
a=ptime:20
```

Cisco Unified CM also support other rtpmap attributes in addition to the CLEARMODE. It can identify X-CCD, CCD and G.nX64 rtpmap attributes as G.Clear codec in incoming SDPs. Cisco Unified CM supports sending one of these values - CLEARMODE, X-CCD, CCD and G.nX64 in rtpmap attribute of the outgoing SDP. This is based on Cisco Unified CM configuration. For example, Cisco Unified CM need to be configured to send this attribute line for a G.Clear codec in outgoing SDPL:

```
a=rtpmap:125 X-CCD/8000
```

Early Offer Support for G.Clear Calls

Cisco Unified CM shall route the call based on called number in the INVITE request-uri to another SIP endpoint or over SIP trunk. Cisco Unified CM shall include the offer SDP in the outgoing INVITE for G.Clear calls, which is configurable. The SDP included in outgoing INVITE is received from the incoming SIP call leg. Therefore Cisco Unified CM supports, sending offer SDP in outgoing INVITE without requiring an MTP, only for G.Clear calls. Cisco Unified CM Voice calls will still require “MTP Required” checkbox to be enabled in order to include SDP for voice calls.



CHAPTER 2

SIP Basic Line Call Flows

This chapter describes the SIP basic line side call flows for Cisco Unified C M. It shows the interfaces and interactions between Cisco Unified C M and SIP endpoints for basic calls and supplementary services. The new features and enhancements that are introduced in this release do not impose any backward compatibility implications on previous versions of the SIP line.

This chapter contains standard SIP call flow scenarios including registration and call processing for Cisco Unified C M. Each SIP call flow has the same format:

1. A description for the scenario that describes what is happening from the various phone user perspectives.
2. The message sequence charts, including the phones and Cisco Unified C M nodes involved in the various SIP transactions. Each message sequence chart uses the following conventions:
 - a. A dialog identifier and message number relative to the scenario precedes each message. For example "(d2) [3] INVITE..." indicates that the INVITE is the third message in the sequence and is in the second dialog. Other messages in the same dialog will also have (d2) at the beginning. Also, the message link color stays the same for all messages within a dialog.
 - b. Phones names use letters. For example, Phone A.
 - c. Nodes in the message sequence charts that represent phones have labels with the phone letter and the line number. For example, A 1100 represents line 1100 on phone A.
3. The detailed SIP messages that are associated with the message sequence chart.

Each message arrow () is clickable. Clicking a message arrow will cause the document to display the detailed message.

Clicking [\[diagram\]](#) above the message will cause the document to display the message sequence chart that contains that message.

This document uses special terminology for certain types of phones:

- A “SIP Basic” phone is a Cisco Unified IP Phone 7960 that is configured with an image prior to Cisco Unified CM Release 5.0 to simulate a third-party phone.
- A “SIP TNP” phone includes the Cisco Unified IP Phones 7911, 7941, 7961, 7970, and 7971. These phones all use the same code base and exhibit similar call flow sequences.



Note

Cisco used actual traces to generate the message sequence charts and detailed messages for each call scenario in this chapter. Every effort was taken to minimize extraneous messages that do not pertain to a given call flow, but it is not possible to ensure this 100 percent of the time. You may notice some nonrelevant messages and/or nonrelevant nodes in a particular call flow. For example, (re)REGISTER and (re)SUBSCRIBE and related transactions may show up in the middle of a call flow but do not really pertain to the scenario at hand. At times, you may even see a node that does not belong. You can easily recognize an extra node because the relevant nodes and lines are listed in the Configuration section found prior to the first message sequence chart of each scenario.

This document contains a number of SIP call flows. Each one has the same format as follows:

1. A description for the scenario that describes what is happening from the various phone user's perspective.
2. The Message Sequence Charts (MSCs) including phones and Unified CM nodes involved in the various SIP transactions. Each MSC uses the following conventions:
 - a. Each message is preceded by a dialog identifier and message number relative to the scenario. For example "(d2) [3] INVITE..." indicates that the INVITE is the third message in the sequence and is in the second dialog. Other messages in the same dialog will also have (d2) at the beginning. Also, the message link color is the same for all messages within a dialog.
 - b. Phones are named with letters. For example, Phone A.
 - c. Nodes in the MSC presenting phones will be labeled with the phone letter and the line number. For example, A 1100 represents line 1100 on phone A.
3. The detailed SIP messages associated with the MSC.

Each message arrow is clickable. Clicking a message arrow will cause the document to jump to the detailed message. Clicking [diagram] above the message will cause the document to jump back to the page with MSC that contains that message.



Note

Actual traces were used to generate the message sequence charts and detailed messages for each call scenario captured in this document. Every effort was taken to minimize extraneous messages that don't pertain to a given call flow. Even still, there is no way to ensure this 100% of the time. Therefore, the reader may notice some non relevant messages and/or non relevant nodes in a particular call flow. For example, (re)REGISTER and (re)SUBSCRIBE and related transactions may show up in the middle of a call flow but don't really pertain to the scenario at hand. At times, the reader may even see a node that doesn't belong. An extra node can be easily recognized though because the relevant nodes and lines are listed in the Configuration section found prior to the first message sequence chart of each scenario.



Note

The "SIP Basic" phone is a Cisco Unified IP Phone 7960 configured with an image prior to Cisco Unified Communication Manager 5.0 (POS3-07-5-00) to simulate a 3rd party phone.

List of Scenarios:

1. Register
 - 1.1 [Register SIP 3rd-Party Phone \(EyeBeam\) with 1 Line](#)
 - 1.2 [Register SIP 3rd-Party Phone \(Polycom\) with 3 lines](#)
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- 10.1 [Basic Call - SIP Video Phone calls another SIP Video Phone](#)
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- 10.3 [Basic Call - CUPC SIP endpoint calls a SIP Video Phone](#)
- 10.4 [Hold Resume - SIP video endpoints](#)
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- 10.7 [Basic Call - Escalation to video](#)
- 10.8 [Transfer - SIP Video endpoint performs a blind transfer](#)
- 10.9 [Transfer - Cisco 7985 performs an Attended Transfer](#)

1. Register

1.1 Register SIP 3rd-Party Phone (EyeBeam) with 1 Line

Title: Register SIP 3rd-Party Phone (EyeBeam) with 1 Line

Description:

This is the register sequence for a EyeBeam phone configured with 1 line. In order to find the device entry in the Cisco Unified CM database, the phone must be identified by the HTTP digest user ID. Therefore, Cisco Unified CM challenges the register to get the Authorization header containing the digest user ID (eyebeam). This happens for all 3rd-party phones regardless of whether the SIP Phone Security Profile is configured with digest authorization. The digest user ID must be configured as an End User in the database and associated with the device in the Digest User field of the Phone Configuration page. Also note that each user ID can be associated with only one device when used for 3rd-party configuration.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = U, Line = 3881070, IP = 5.5.5.7, Model = 3rd-Party

Scenario:

Line 3881070 registers with Unified CM

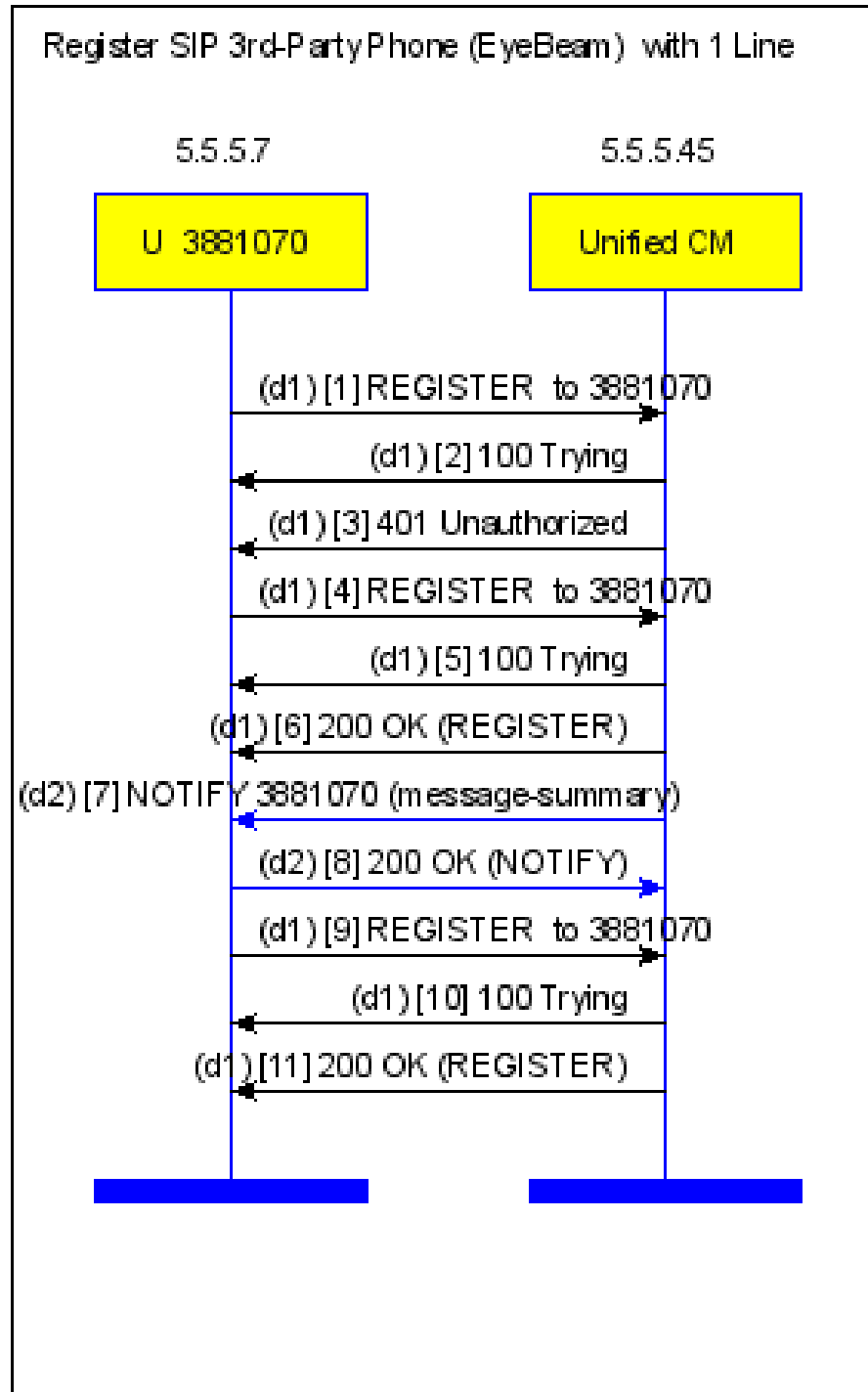
Unified CM challenges register with 401 response

Line 3881070 re-registers with Authorization header

Unified CM responds with 200 OK

Unified CM sends MWI status in a NOTIFY request

After 120 sec, Line 3881070 sends a register refresh to Unified CM (keepalive)



[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[1] REGISTER sip:titan-pub.sipnet5.com SIP/2.0

Via: SIP/2.0/UDP 5.5.5.7:58632;branch=z9hG4bK-d8754z-da08d10e221f1f0f-1---d8754z-;rport
Max-Forwards: 70
Contact: <sip:3881070@5.5.5.7:58632;rinstance=49dceefe6bc74ab0>
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=49185324
Call-ID: M2IwZGRlNzM3NjI5Mjk3MDJjNzg5ZTk5ZmY1MTM3NmI.
CSeq: 1 REGISTER
Expires: 300
Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
User-Agent: eyeBeam release 1014h stamp 44593
Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.7:58632;branch=z9hG4bK-d8754z-da08d10e221f1f0f-1---d8754z-;rport
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=49185324
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>
Date: Wed, 20 Jan 2010 19:09:45 GMT
Call-ID: M2IwZGRlNzM3NjI5Mjk3MDJjNzg5ZTk5ZmY1MTM3NmI.
CSeq: 1 REGISTER
Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 401 Unauthorized

Via: SIP/2.0/UDP 5.5.5.7:58632;branch=z9hG4bK-d8754z-da08d10e221f1f0f-1---d8754z-;rport
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=49185324
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=447366337
Date: Wed, 20 Jan 2010 19:09:45 GMT
Call-ID: M2IwZGRlNzM3NjI5Mjk3MDJjNzg5ZTk5ZmY1MTM3NmI.
CSeq: 1 REGISTER
WWW-Authenticate: Digest realm="ccmsipline", nonce="1J/ko4tI67v82uqRPLxycoYBvZ5oz5nI", algorithm=MD5
Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[4] REGISTER sip:titan-pub.sipnet5.com SIP/2.0

Via: SIP/2.0/UDP 5.5.5.7:58632;branch=z9hG4bK-d8754z-dd00f915704d7c4c-1---d8754z-;rport
Max-Forwards: 70
Contact: <sip:3881070@5.5.5.7:58632;rinstance=49dceefe6bc74ab0>
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=49185324
Call-ID: M2IwZGRlNzM3NjI5Mjk3MDJjNzg5ZTk5ZmY1MTM3NmI.
CSeq: 2 REGISTER
Expires: 300
Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
User-Agent: eyeBeam release 1014h stamp 44593
Authorization: Digest
username="eyebeam", realm="ccmsipline", nonce="1J/ko4tI67v82uqRPLxycoYBvZ5oz5nI", uri="sip:titan-pub.sipnet5.com", response="6af6116137e609c242e415e7e459ea24", algorithm=MD5
Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.7:58632;branch=z9hG4bK-d8754z-dd00f915704d7c4c-1---d8754z-;rport
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=49185324
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=447366337
Date: Wed, 20 Jan 2010 19:09:45 GMT
Call-ID: M2IwZGRlNzM3NjI5Mjk3MDJjNzg5ZTk5ZmY1MTM3NmI.
CSeq: 2 REGISTER
Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.7:58632;branch=z9hG4bK-d8754z-dd00f915704d7c4c-1---d8754z-;rport
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=49185324
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=447366337
Date: Wed, 20 Jan 2010 19:09:45 GMT
Call-ID: M2IwZGRlNzM3NjI5Mjk3MDJjNzg5ZTk5ZmY1MTM3NmI.
CSeq: 2 REGISTER
Expires: 120
Contact: <sip:3881070@5.5.5.7:58632;rinstance=49dceefe6bc74ab0>;x-cisco-newreg
Supported: X-cisco-sis-5.0.0
Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[7] NOTIFY sip:3881070@5.5.5.7:58632;rinstance=49dceefe6bc74ab0 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK91a49a8533b
From: <sip:3881070@5.5.5.45>;tag=108602397
To: <sip:3881070@5.5.5.7>

Call-ID: 5d95a800-b57154f9-887-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 19:09:45 GMT
 User-Agent: Cisco-CUCM8.0
 Event: message-summary
 Subscription-State: active
 Contact: <sip:3881070@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Content-Length: 22

Messages-Waiting: no

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[8] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK91a49a8533b
 Contact: <sip:5.5.5.7:58632>
 To: <sip:3881070@5.5.5.7>;tag=0748d246
 From: <sip:3881070@5.5.5.45>;tag=108602397
 Call-ID: 5d95a800-b57154f9-887-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 User-Agent: eyeBeam release 1014h stamp 44593
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] REGISTER sip:titan-pub.sipnet5.com SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.7:58632;branch=z9hG4bK-d8754z-e21e8b30f566182e-1---d8754z-;rport
 Max-Forwards: 70
 Contact: <sip:3881070@5.5.5.7:58632;rinstance=49dceefe6bc74ab0>
 To: "3881070"<sip:3881070@titan-pub.sipnet5.com>
 From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=49185324
 Call-ID: M2IwZGRlNzM3NjI5Mjk3MDJjNzg5ZTk5ZmY1MTM3NmI.
 CSeq: 3 REGISTER
 Expires: 300
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 User-Agent: eyeBeam release 1014h stamp 44593
 Authorization: Digest
 username="eyebeam", realm="ccmsipline", nonce="1J/ko4tI67v82uqRPLxycoYBvZ5oz5nI", uri="sip:titan-pub.sipnet5.com", response="6af6116137e609c242e415e7e459ea24", algorithm=MD5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 100 Trying
 Via: SIP/2.0/UDP 5.5.5.7:58632;branch=z9hG4bK-d8754z-e21e8b30f566182e-1---d8754z-;rport
 From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=49185324
 To: "3881070"<sip:3881070@titan-pub.sipnet5.com>
 Date: Wed, 20 Jan 2010 19:11:33 GMT
 Call-ID: M2IwZGRlNzM3NjI5Mjk3MDJjNzg5ZTk5ZmY1MTM3NmI.
 CSeq: 3 REGISTER
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.7:58632;branch=z9hG4bK-d8754z-e21e8b30f566182e-1---d8754z-;rport
 From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=49185324
 To: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=1735645165
 Date: Wed, 20 Jan 2010 19:11:33 GMT
 Call-ID: M2IwZGRlNzM3NjI5Mjk3MDJjNzg5ZTk5ZmY1MTM3NmI.
 CSeq: 3 REGISTER
 Expires: 120
 Contact: <sip:3881070@5.5.5.7:58632;rinstance=49dceefe6bc74ab0>
 Supported: X-cisco-sis-5.0.0
 Content-Length: 0

1.2 Register SIP 3rd-Party Phone (Polycom) with 3 lines

Title: Register SIP 3rd-Party Phone (Polycom) with 3 lines

Description:

This is the register sequence for a Polycom 3rd-party SIP phone configured with 3 lines. In order to find the device entry in the Cisco Unified CM database, the phone must be identified by the HTTP digest user ID. Therefore, the Unified CM challenges the register to get the Authorization header containing the digest user ID (polycom). This happens for all 3rd-party phones regardless of whether the SIP Phone Security Profile is configured with digest authorization. The digest user ID must be configured as an End User in the database and associated with the device in the Digest User field of the Phone Configuration page. Also note that each user ID can be associated with only one device when used for 3rd-party configuration.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = V, Line = 3881000-3881002, IP = 5.5.5.200, Model = 3rd-Party

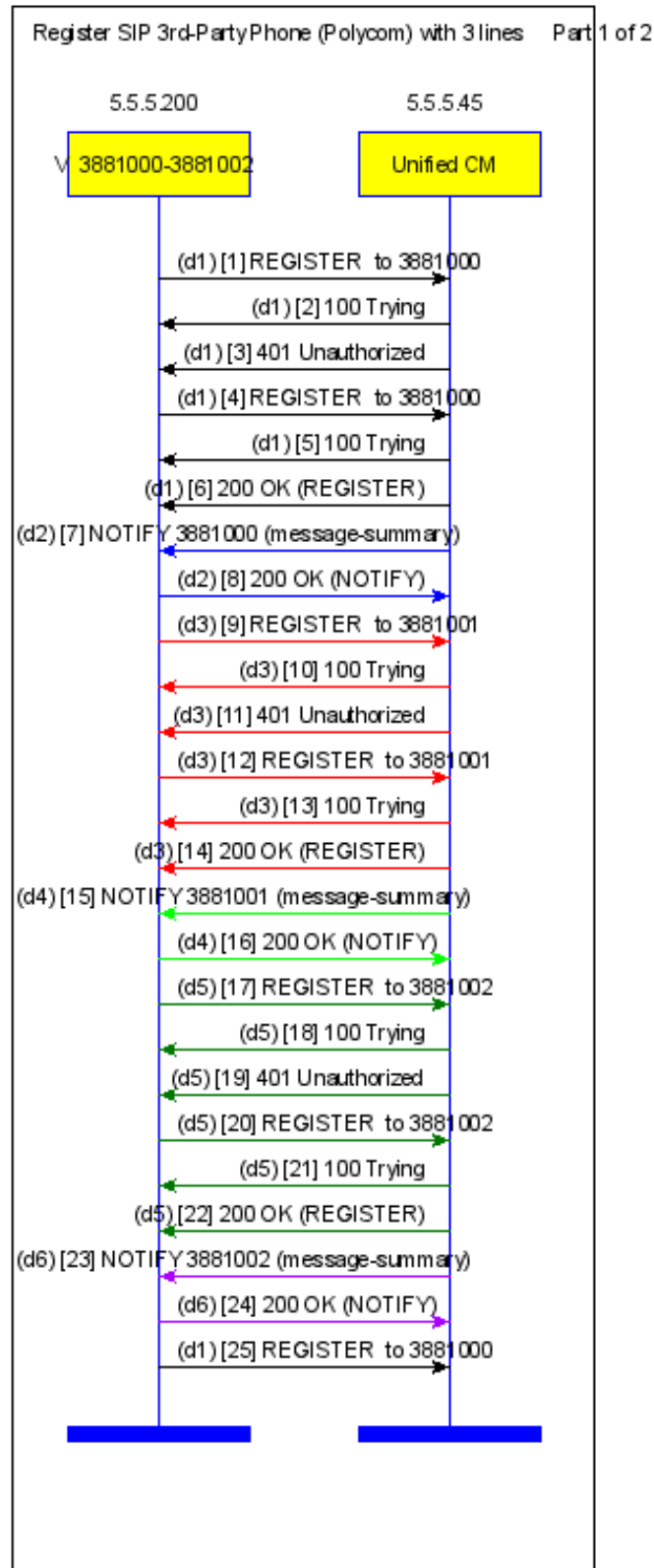
Scenario:

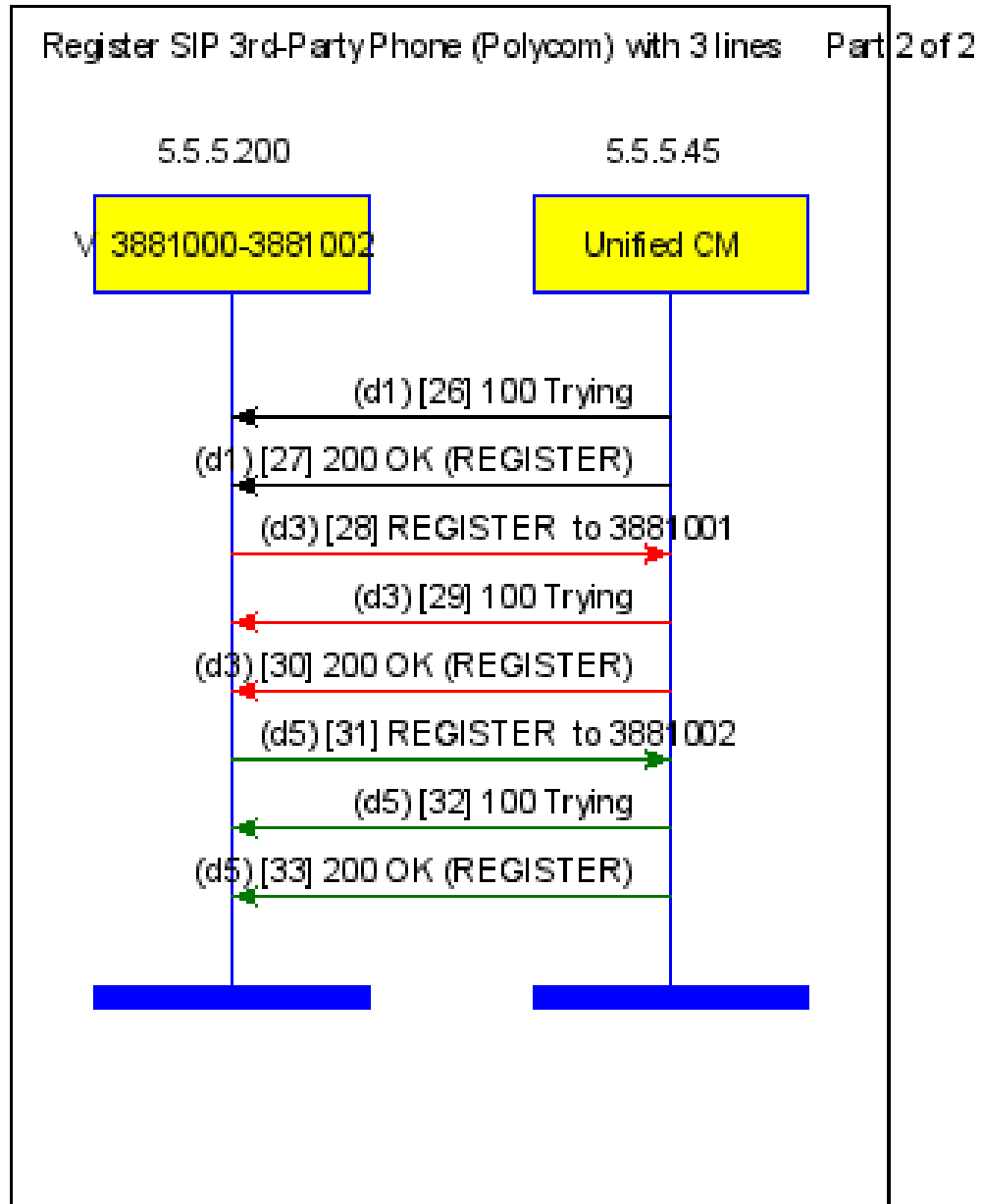
Lines 3881000-3881002 register with Unified CM

Unified CM challenges line 3881000 register

Unified CM sends MWI status

After 120 sec, Line 3881000 sends a register refresh to Unified CM (keepalive)





[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] REGISTER sip:titan-pub:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK417b2ea5DE94EA76
 From: "3881000" <sip:3881000@titan-pub>;tag=8B49AF3B-514CFCDA
 To: <sip:3881000@titan-pub>
 CSeq: 1 REGISTER
 Call-ID: fc19e597-edc10dc9-a13e4908@5.5.5.200
 Contact: <sip:3881000@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK417b2ea5DE94EA76
 From: "3881000" <sip:3881000@titan-pub>;tag=8B49AF3B-514CFCDA
 To: <sip:3881000@titan-pub>
 Date: Fri, 22 Jan 2010 15:51:25 GMT
 Call-ID: fc19e597-edc10dc9-a13e4908@5.5.5.200
 CSeq: 1 REGISTER
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 401 Unauthorized

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK417b2ea5DE94EA76
 From: "3881000" <sip:3881000@titan-pub>;tag=8B49AF3B-514CFCDA
 To: <sip:3881000@titan-pub>;tag=1959444161
 Date: Fri, 22 Jan 2010 15:51:25 GMT
 Call-ID: fc19e597-edc10dc9-a13e4908@5.5.5.200
 CSeq: 1 REGISTER
 WWW-Authenticate: Digest realm="ccmsipline", nonce="IrPn6+YjU00o0hqwwVvG18AtojTpgq9x", algorithm=MD5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] REGISTER sip:titan-pub:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK107c8dec3B19D1ED
 From: "3881000" <sip:3881000@titan-pub>;tag=8B49AF3B-514CFCDA
 To: <sip:3881000@titan-pub>
 CSeq: 2 REGISTER
 Call-ID: fc19e597-edc10dc9-a13e4908@5.5.5.200
 Contact: <sip:3881000@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Authorization: Digest username="polycom", realm="ccmsipline", nonce="IrPn6+YjU00o0hqwwVvG18AtojTpgq9x", uri="sip:titan-pub:5060", response="0e82757c529bcf7ad1f10ff1800a4bf8", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK107c8dec3B19D1ED
 From: "3881000" <sip:3881000@titan-pub>;tag=8B49AF3B-514CFCDA
 To: <sip:3881000@titan-pub>;tag=1959444161
 Date: Fri, 22 Jan 2010 15:51:25 GMT
 Call-ID: fc19e597-edc10dc9-a13e4908@5.5.5.200
 CSeq: 2 REGISTER
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK107c8dec3B19D1ED
 From: "3881000" <sip:3881000@titan-pub>;tag=8B49AF3B-514CFCDA
 To: <sip:3881000@titan-pub>;tag=1959444161
 Date: Fri, 22 Jan 2010 15:51:25 GMT
 Call-ID: fc19e597-edc10dc9-a13e4908@5.5.5.200
 CSeq: 2 REGISTER
 Expires: 120
 Contact: <sip:3881000@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER";x-cisco-newreg
 Supported: X-cisco-sis-5.0.0
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] NOTIFY sip:3881000@5.5.5.200 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc6a134b14c2
 From: <sip:3881000@5.5.5.45>;tag=2127746741
 To: <sip:3881000@5.5.5.200>

Call-ID: fd754200-b591c97d-99f-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 Max-Forwards: 70
 Date: Fri, 22 Jan 2010 15:51:25 GMT
 User-Agent: Cisco-CUCM8.0
 Event: message-summary
 Subscription-State: active
 Contact: <sip:3881000@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Content-Length: 22

Messages-Waiting: no

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[8] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc6a134b14c2
 From: <sip:3881000@5.5.5.45>;tag=2127746741
 To: <sip:3881000@5.5.5.200>;tag=B7847DDF-80E5843E
 CSeq: 101 NOTIFY
 Call-ID: fd754200-b591c97d-99f-2d050505@5.5.5.45
 Contact: <sip:3881000@5.5.5.200>
 Event: message-summary
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] REGISTER sip:titan-pub:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK401d67d0C349BB11
 From: "3881001" <sip:3881001@titan-pub>;tag=8468F206-49650935
 To: <sip:3881001@titan-pub>
 CSeq: 1 REGISTER
 Call-ID: f656c0a2-798116b4-b2d69183@5.5.5.200
 Contact: <sip:3881001@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 100 Trying
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK401d67d0C349BB11
 From: "3881001" <sip:3881001@titan-pub>;tag=8468F206-49650935
 To: <sip:3881001@titan-pub>
 Date: Fri, 22 Jan 2010 15:51:26 GMT
 Call-ID: f656c0a2-798116b4-b2d69183@5.5.5.200
 CSeq: 1 REGISTER
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] SIP/2.0 401 Unauthorized
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK401d67d0C349BB11
 From: "3881001" <sip:3881001@titan-pub>;tag=8468F206-49650935
 To: <sip:3881001@titan-pub>;tag=87758007
 Date: Fri, 22 Jan 2010 15:51:26 GMT
 Call-ID: f656c0a2-798116b4-b2d69183@5.5.5.200
 CSeq: 1 REGISTER
 WWW-Authenticate: Digest realm="ccmsipline", nonce="IrPn6+YjU00o0hqwwVvG18AtojTpgq9x", algorithm=MD5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] REGISTER sip:titan-pub:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK6a1c2a2781D7DA98
 From: "3881001" <sip:3881001@titan-pub>;tag=8468F206-49650935
 To: <sip:3881001@titan-pub>
 CSeq: 2 REGISTER
 Call-ID: f656c0a2-798116b4-b2d69183@5.5.5.200
 Contact: <sip:3881001@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Authorization: Digest username="polycom", realm="ccmsipline", nonce="IrPn6+YjU00o0hqwwVvG18AtojTpgq9x", uri="sip:titan-pub:5060", response="0e82757c529bcf7ad1f10ff1800a4bf8", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 100 Trying
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK6a1c2a2781D7DA98
 From: "3881001" <sip:3881001@titan-pub>;tag=8468F206-49650935

To: <sip:3881001@titan-pub>;tag=87758007
 Date: Fri, 22 Jan 2010 15:51:26 GMT
 Call-ID: f656c0a2-798116b4-b2d69183@5.5.5.200
 CSeq: 2 REGISTER
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[14] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK6a1c2a2781D7DA98
 From: "3881001" <sip:3881001@titan-pub>;tag=8468F206-49650935
 To: <sip:3881001@titan-pub>;tag=87758007
 Date: Fri, 22 Jan 2010 15:51:26 GMT
 Call-ID: f656c0a2-798116b4-b2d69183@5.5.5.200
 CSeq: 2 REGISTER
 Expires: 120
 Contact: <sip:3881001@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER";x-cisco-newline
 Supported: X-cisco-sis-5.0.0
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[15] NOTIFY sip:3881001@5.5.5.200 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc6b1b2bd5aa
 From: <sip:3881001@5.5.5.45>;tag=128110408
 To: <sip:3881001@5.5.5.200>
 Call-ID: fe0dd880-b591c97e-9a0-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 Max-Forwards: 70
 Date: Fri, 22 Jan 2010 15:51:26 GMT
 User-Agent: Cisco-CUCM8.0
 Event: message-summary
 Subscription-State: active
 Contact: <sip:3881001@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Content-Length: 22

Messages-Waiting: no

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[16] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc6b1b2bd5aa
 From: <sip:3881001@5.5.5.45>;tag=128110408
 To: <sip:3881001@5.5.5.200>;tag=EBB4586A-1D2FFC59
 CSeq: 101 NOTIFY
 Call-ID: fe0dd880-b591c97e-9a0-2d050505@5.5.5.45
 Contact: <sip:3881001@5.5.5.200>
 Event: message-summary
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[17] REGISTER sip:titan-pub:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK690187cbBE21F37C
 From: "3881002" <sip:3881002@titan-pub>;tag=4F5D1A1-572FA160
 To: <sip:3881002@titan-pub>
 CSeq: 1 REGISTER
 Call-ID: 7f3ed47d-be02ea6f-7ea133ce@5.5.5.200
 Contact: <sip:3881002@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[18] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK690187cbBE21F37C
 From: "3881002" <sip:3881002@titan-pub>;tag=4F5D1A1-572FA160
 To: <sip:3881002@titan-pub>
 Date: Fri, 22 Jan 2010 15:51:27 GMT
 Call-ID: 7f3ed47d-be02ea6f-7ea133ce@5.5.5.200
 CSeq: 1 REGISTER
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[19] SIP/2.0 401 Unauthorized

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK690187cbBE21F37C
 From: "3881002" <sip:3881002@titan-pub>;tag=4F5D1A1-572FA160
 To: <sip:3881002@titan-pub>;tag=66300151
 Date: Fri, 22 Jan 2010 15:51:27 GMT

Call-ID: 7f3ed47d-be02ea6f-7ea133ce@5.5.5.200
 CSeq: 1 REGISTER
 WWW-Authenticate: Digest realm="ccmsipline", nonce="IrPn6+YjU00o0hqwwVvG18AtojTpgq9x", algorithm=MD5
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]
[20] REGISTER sip:titan-pub:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKc567c432DE6C9213
 From: "3881002" <sip:3881002@titan-pub>;tag=4F5D1A1-572FA160
 To: <sip:3881002@titan-pub>
 CSeq: 2 REGISTER
 Call-ID: 7f3ed47d-be02ea6f-7ea133ce@5.5.5.200
 Contact: <sip:3881002@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Authorization: Digest username="polycom", realm="ccmsipline", nonce="IrPn6+YjU00o0hqwwVvG18AtojTpgq9x", uri="sip:titan-pub:5060", response="0e82757c529bcf7ad1f10ff1800a4bf8", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]
[21] SIP/2.0 100 Trying
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKc567c432DE6C9213
 From: "3881002" <sip:3881002@titan-pub>;tag=4F5D1A1-572FA160
 To: <sip:3881002@titan-pub>;tag=66300151
 Date: Fri, 22 Jan 2010 15:51:27 GMT
 Call-ID: 7f3ed47d-be02ea6f-7ea133ce@5.5.5.200
 CSeq: 2 REGISTER
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]
[22] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKc567c432DE6C9213
 From: "3881002" <sip:3881002@titan-pub>;tag=4F5D1A1-572FA160
 To: <sip:3881002@titan-pub>;tag=66300151
 Date: Fri, 22 Jan 2010 15:51:27 GMT
 Call-ID: 7f3ed47d-be02ea6f-7ea133ce@5.5.5.200
 CSeq: 2 REGISTER
 Expires: 120
 Contact: <sip:3881002@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER";x-cisco-newline
 Supported: X-cisco-sis-5.0.0
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]
[23] NOTIFY sip:3881002@5.5.5.200 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc6c3da316cc
 From: <sip:3881002@5.5.5.45>;tag=1361654802
 To: <sip:3881002@5.5.5.200>
 Call-ID: fea66f00-b591c97f-9a1-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 Max-Forwards: 70
 Date: Fri, 22 Jan 2010 15:51:27 GMT
 User-Agent: Cisco-CUCM8.0
 Event: message-summary
 Subscription-State: active
 Contact: <sip:3881002@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Content-Length: 22

Messages-Waiting: no

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]
[24] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc6c3da316cc
 From: <sip:3881002@5.5.5.45>;tag=1361654802
 To: <sip:3881002@5.5.5.200>;tag=FC8933C5-5DA12444
 CSeq: 101 NOTIFY
 Call-ID: fea66f00-b591c97f-9a1-2d050505@5.5.5.45
 Contact: <sip:3881002@5.5.5.200>
 Event: message-summary
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]
[25] REGISTER sip:titan-pub:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK221049968A5ABEB7
 From: "3881000" <sip:3881000@titan-pub>;tag=8B49AF3B-514CFCDA
 To: <sip:3881000@titan-pub>

CSeq: 3 REGISTER
 Call-ID: fc19e597-edc10dc9-a13e4908@5.5.5.200
 Contact: <sip:3881000@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Authorization: Digest username="polycom", realm="ccmsipline", nonce="IrPn6+YjU00o0hqwwVvG18AtojTpgq9x", uri="sip:titan-pub:5060", response="0e82757c529bcf7ad1f10ff1800a4bf8", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[26] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK221049968A5ABEB7
 From: "3881000" <sip:3881000@titan-pub>;tag=8B49AF3B-514CFCD4
 To: <sip:3881000@titan-pub>
 Date: Fri, 22 Jan 2010 15:52:25 GMT
 Call-ID: fc19e597-edc10dc9-a13e4908@5.5.5.200
 CSeq: 3 REGISTER
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[27] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK221049968A5ABEB7
 From: "3881000" <sip:3881000@titan-pub>;tag=8B49AF3B-514CFCD4
 To: <sip:3881000@titan-pub>;tag=1843244491
 Date: Fri, 22 Jan 2010 15:52:25 GMT
 Call-ID: fc19e597-edc10dc9-a13e4908@5.5.5.200
 CSeq: 3 REGISTER
 Expires: 120
 Contact: <sip:3881000@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 Supported: X-cisco-sis-5.0.0
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[28] REGISTER sip:titan-pub:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKede6bc28D0FD3AE9
 From: "3881001" <sip:3881001@titan-pub>;tag=8468F206-49650935
 To: <sip:3881001@titan-pub>
 CSeq: 3 REGISTER
 Call-ID: f656c0a2-798116b4-b2d69183@5.5.5.200
 Contact: <sip:3881001@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Authorization: Digest username="polycom", realm="ccmsipline", nonce="IrPn6+YjU00o0hqwwVvG18AtojTpgq9x", uri="sip:titan-pub:5060", response="0e82757c529bcf7ad1f10ff1800a4bf8", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[29] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKede6bc28D0FD3AE9
 From: "3881001" <sip:3881001@titan-pub>;tag=8468F206-49650935
 To: <sip:3881001@titan-pub>
 Date: Fri, 22 Jan 2010 15:52:26 GMT
 Call-ID: f656c0a2-798116b4-b2d69183@5.5.5.200
 CSeq: 3 REGISTER
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[30] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKede6bc28D0FD3AE9
 From: "3881001" <sip:3881001@titan-pub>;tag=8468F206-49650935
 To: <sip:3881001@titan-pub>;tag=1734868099
 Date: Fri, 22 Jan 2010 15:52:26 GMT
 Call-ID: f656c0a2-798116b4-b2d69183@5.5.5.200
 CSeq: 3 REGISTER
 Expires: 120
 Contact: <sip:3881001@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 Supported: X-cisco-sis-5.0.0
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[31] REGISTER sip:titan-pub:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK747303faB0B9B05B
 From: "3881002" <sip:3881002@titan-pub>;tag=4F5D1A1-572FA160
 To: <sip:3881002@titan-pub>

CSeq: 3 REGISTER
 Call-ID: 7f3ed47d-be02ea6f-7ea133ce@5.5.5.200
 Contact: <sip:3881002@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 User-Agent: PolycomSoundPointIP-SPIP_501-UA/1.6.3.0067
 Authorization: Digest username="polycom", realm="ccmsipline", nonce="IrPn6+YjU00o0hqwwVVG18AtojTpgq9x", uri="sip:titan-pub:5060", response="0e82757c529bcf7ad1f10ff1800a4bf8", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[32] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK747303faB0B9B05B
 From: "3881002" <sip:3881002@titan-pub>;tag=4F5D1A1-572FA160
 To: <sip:3881002@titan-pub>
 Date: Fri, 22 Jan 2010 15:52:27 GMT
 Call-ID: 7f3ed47d-be02ea6f-7ea133ce@5.5.5.200
 CSeq: 3 REGISTER
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[33] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK747303faB0B9B05B
 From: "3881002" <sip:3881002@titan-pub>;tag=4F5D1A1-572FA160
 To: <sip:3881002@titan-pub>;tag=1898083877
 Date: Fri, 22 Jan 2010 15:52:27 GMT
 Call-ID: 7f3ed47d-be02ea6f-7ea133ce@5.5.5.200
 CSeq: 3 REGISTER
 Expires: 120
 Contact: <sip:3881002@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 Supported: X-cisco-sis-5.0.0
 Content-Length: 0

2. Basic Call

2.1 Basic Call - SIP Basic calls SIP Basic

Title: Basic Call - SIP Basic calls SIP Basic

Description:

A SIP Basic phone calls another SIP Basic phone but the originating phone goes onhook cancelling the call.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

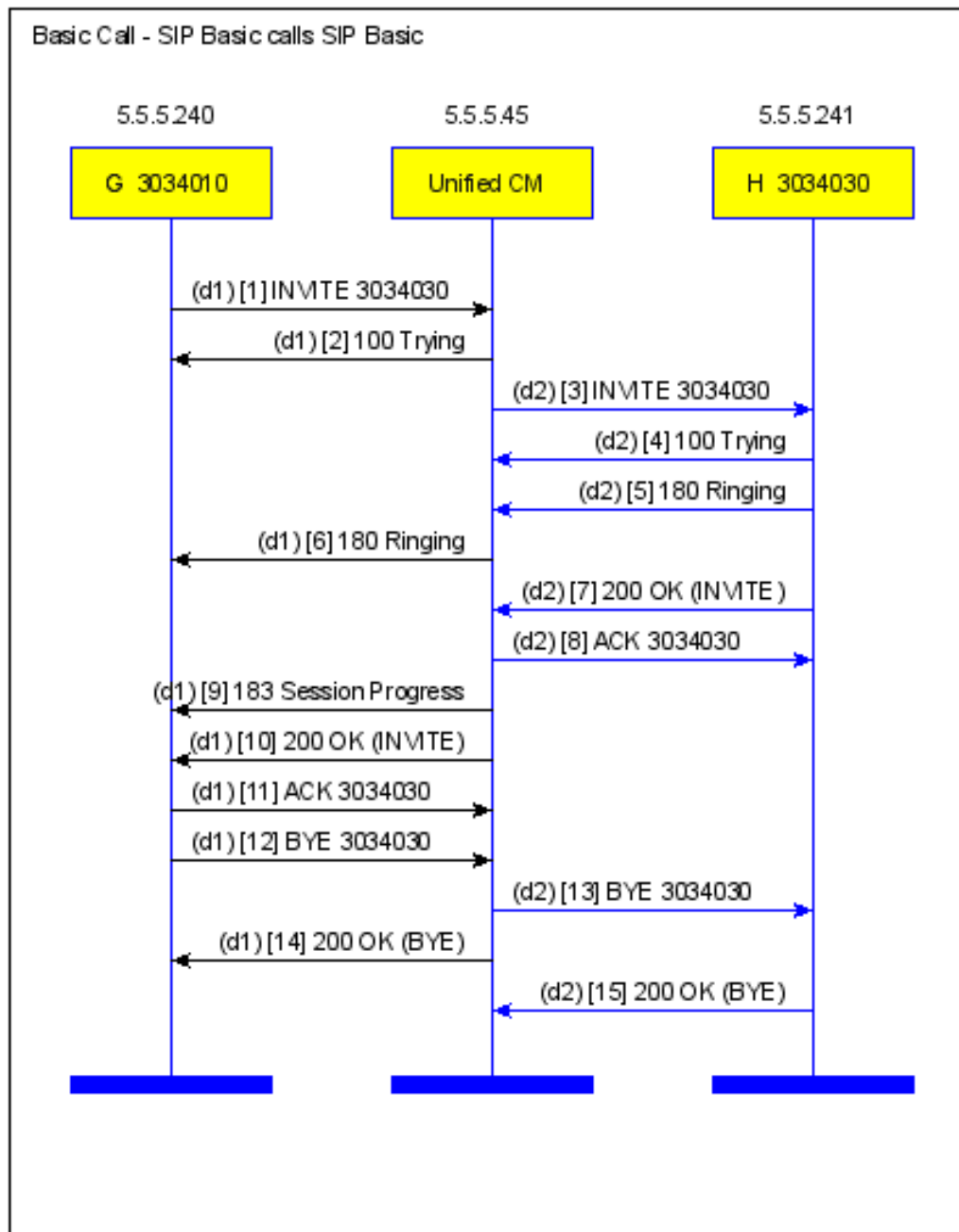
Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Scenario:

3034010 calls 3034030

3034030 answers

3034010 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK525472e4
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000405f9943c-4d5997c1
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-36be79a4-16f640a8@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 05 Jan 2010 22:18:07 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 8977 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 25246 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK525472e4
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000405f9943c-4d5997c1
 To: <sip:3034030@5.5.5.45>
 Date: Tue, 05 Jan 2010 22:18:07 GMT
 Call-ID: 001a2f8d-f17f0004-36be79a4-16f640a8@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1def2c15a1f2
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944775
 To: <sip:3034030@5.5.5.241>
 Date: Tue, 05 Jan 2010 22:18:07 GMT
 Call-ID: 31e7bf00-b431ba9f-1166-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1def2c15a1f2
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944775
 To: <sip:3034030@5.5.5.241>
 Call-ID: 31e7bf00-b431ba9f-1166-2d050505@5.5.5.45
 Date: Tue, 05 Jan 2010 22:18:06 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1def2c15a1f2
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944775
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600062da8747c-3d387f5f
 Call-ID: 31e7bf00-b431ba9f-1166-2d050505@5.5.5.45
 Date: Tue, 05 Jan 2010 22:18:06 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK525472e4
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000405f9943c-4d5997c1
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944774
 Date: Tue, 05 Jan 2010 22:18:07 GMT
 Call-ID: 001a2f8d-f17f0004-36be79a4-16f640a8@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1def2c15a1f2
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944775
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600062da8747c-3d387f5f
 Call-ID: 31e7bf00-b431ba9f-1166-2d050505@5.5.5.45
 Date: Tue, 05 Jan 2010 22:18:09 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4259 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 19188 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1df060fcc221
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944775
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600062da8747c-3d387f5f
 Date: Tue, 05 Jan 2010 22:18:07 GMT
 Call-ID: 31e7bf00-b431ba9f-1166-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 25246 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20

a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK525472e4
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000405f9943c-4d5997c1
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944774
Date: Tue, 05 Jan 2010 22:18:07 GMT
Call-ID: 001a2f8d-f17f0004-36be79a4-16f640a8@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 19188 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK525472e4
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000405f9943c-4d5997c1
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944774
Date: Tue, 05 Jan 2010 22:18:07 GMT
Call-ID: 001a2f8d-f17f0004-36be79a4-16f640a8@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 19188 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0e4419a7
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000405f9943c-4d5997c1
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944774
Call-ID: 001a2f8d-f17f0004-36be79a4-16f640a8@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 22:18:10 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] BYE sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1cd90042
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000405f9943c-4d5997c1
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944774
Call-ID: 001a2f8d-f17f0004-36be79a4-16f640a8@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 22:18:13 GMT
CSeq: 102 BYE

User-Agent: Cisco-CP7960G/7.5
Content-Length: 0

[diagram] Call-ID: [prev][next]

[13] BYE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1df16627115f

From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944775

To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600062da8747c-3d387f5f

Date: Tue, 05 Jan 2010 22:18:07 GMT

Call-ID: 31e7bf00-b431ba9f-1166-2d050505@5.5.5.45

User-Agent: Cisco-CUCM8.0

Max-Forwards: 70

CSeq: 102 BYE

Content-Length: 0

[diagram] Call-ID: [prev][next]

[14] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1cd90042

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000405f9943c-4d5997c1

To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944774

Date: Tue, 05 Jan 2010 22:18:13 GMT

Call-ID: 001a2f8d-f17f0004-36be79a4-16f640a8@5.5.5.240

CSeq: 102 BYE

Content-Length: 0

[diagram] Call-ID: [prev][next]

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1df16627115f

From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944775

To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600062da8747c-3d387f5f

Call-ID: 31e7bf00-b431ba9f-1166-2d050505@5.5.5.45

Date: Tue, 05 Jan 2010 22:18:12 GMT

CSeq: 102 BYE

Server: Cisco-CP7960G/7.5

Content-Length: 0

2.2 Basic Call - SIP Basic phone calls an SCCP phone

Title: Basic Call - SIP Basic phone calls an SCCP phone

Description:

SIP Basic phone calls an SCCP phone.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

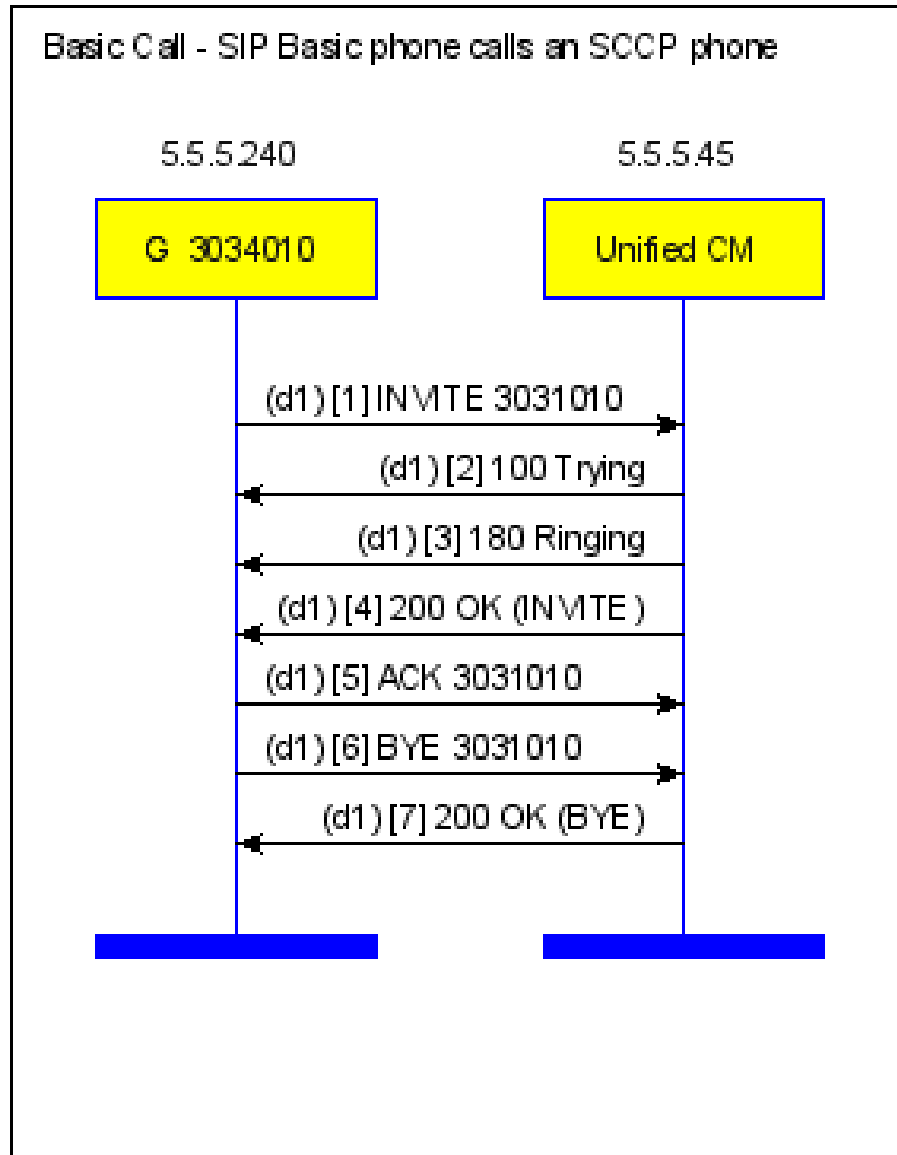
Phone = I, Line = 3031010, IP = 5.5.5.217, Model = SCCP

Scenario:

3034010 calls 3031010

3031010 answers

3034010 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3031010@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4a3936cf
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00053dcd93eb-0872686d
 To: <sip:3031010@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-305b3fd9-0213ed57@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 05 Jan 2010 23:42:20 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 26567 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 24188 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4a3936cf
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00053dcd93eb-0872686d
 To: <sip:3031010@5.5.5.45>
 Date: Tue, 05 Jan 2010 23:42:20 GMT
 Call-ID: 001a2f8d-f17f0004-305b3fd9-0213ed57@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4a3936cf
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00053dcd93eb-0872686d
 To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944792
 Date: Tue, 05 Jan 2010 23:42:20 GMT
 Call-ID: 001a2f8d-f17f0004-305b3fd9-0213ed57@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3031010@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4a3936cf
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00053dcd93eb-0872686d
 To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944792
 Date: Tue, 05 Jan 2010 23:42:20 GMT
 Call-ID: 001a2f8d-f17f0004-305b3fd9-0213ed57@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3031010@5.5.5.45:5060>
 Supported: replaces
 Send-Info: conference
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.217

```
t=0 0
m=audio 25318 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[5] ACK sip:3031010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3e7d36c1
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00053dcd93eb-0872686d
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944792
Call-ID: 001a2f8d-f17f0004-305b3fd9-0213ed57@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 23:42:24 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[6] BYE sip:3031010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK57158d51
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00053dcd93eb-0872686d
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944792
Call-ID: 001a2f8d-f17f0004-305b3fd9-0213ed57@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 23:42:26 GMT
CSeq: 102 BYE
User-Agent: Cisco-CP7960G/7.5
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[7] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK57158d51
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00053dcd93eb-0872686d
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944792
Date: Tue, 05 Jan 2010 23:42:26 GMT
Call-ID: 001a2f8d-f17f0004-305b3fd9-0213ed57@5.5.5.240
CSeq: 102 BYE
Content-Length: 0
```

2.3 Basic Call - SIP Basic calls SIP Basic - No Caller Id Restrictions

Title: Basic Call - SIP Basic calls SIP Basic - No Caller Id Restrictions

Description:

A SIP Basic phone calls another SIP Basic phone. No callerid blocking restrictions configured in the Unified CM.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

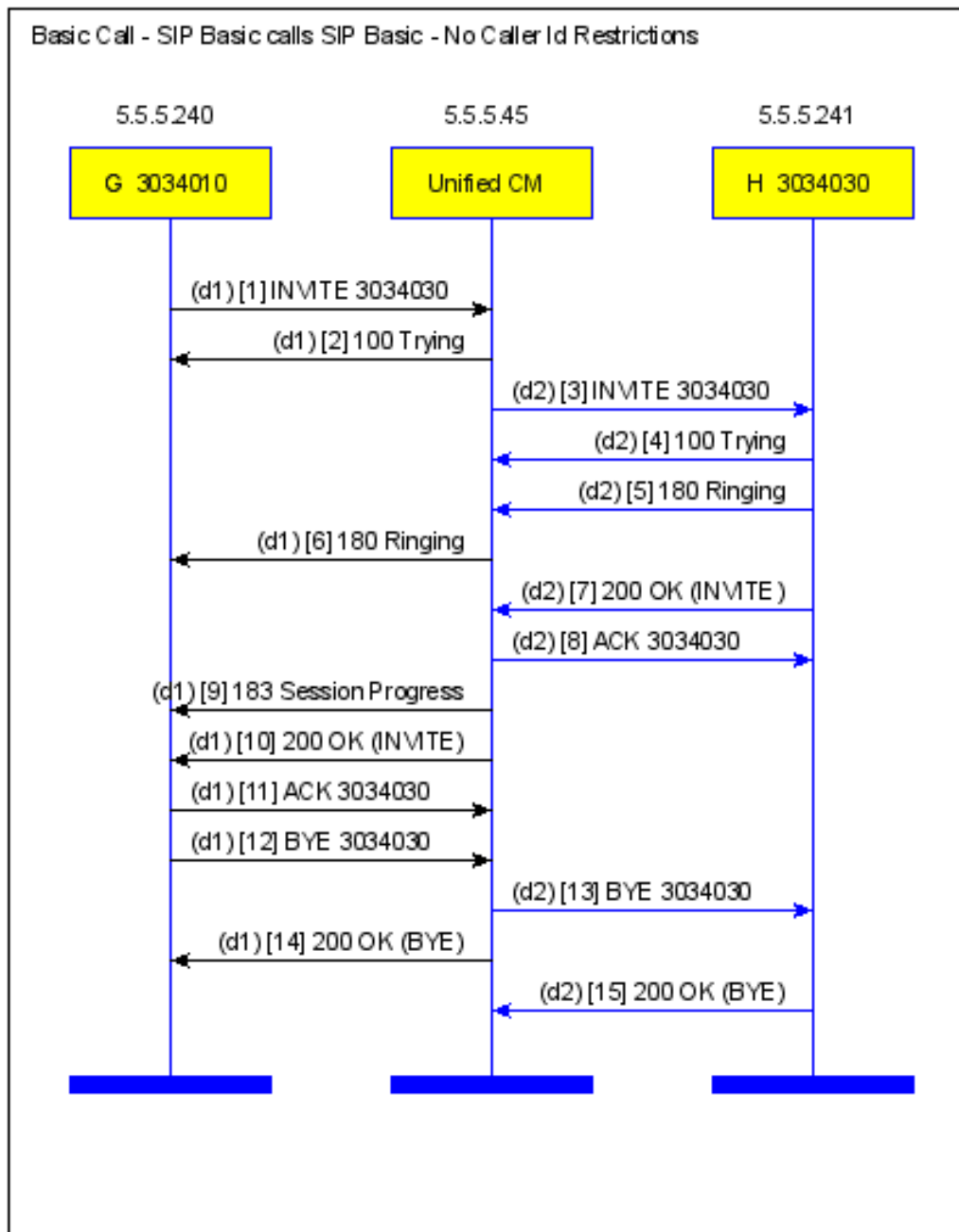
Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Scenario:

3034010 calls 3034030

3034030 answers

3034010 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK43aba585
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f01f37f42c0c6-351f91ec
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-3fe3cb46-77751f86@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 15:15:35 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 22702 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 23748 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK43aba585
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f01f37f42c0c6-351f91ec
 To: <sip:3034030@5.5.5.45>
 Date: Wed, 06 Jan 2010 15:15:35 GMT
 Call-ID: 001a2f8d-f17f0004-3fe3cb46-77751f86@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e391cbf3eff
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944797
 To: <sip:3034030@5.5.5.241>
 Date: Wed, 06 Jan 2010 15:15:35 GMT
 Call-ID: 55594b00-b441a917-1198-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e391cbf3eff
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944797
 To: <sip:3034030@5.5.5.241>
 Call-ID: 55594b00-b441a917-1198-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 15:15:36 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e391cbf3eff
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944797
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d602134680e522-34c4bb3e
 Call-ID: 55594b00-b441a917-1198-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 15:15:36 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK43aba585
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f01f37f42c0c6-351f91ec
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944796
 Date: Wed, 06 Jan 2010 15:15:35 GMT
 Call-ID: 001a2f8d-f17f0004-3fe3cb46-77751f86@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e391cbf3eff
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944797
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d602134680e522-34c4bb3e
 Call-ID: 55594b00-b441a917-1198-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 15:15:40 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4594 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 23116 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e3a5abc7bc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944797
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d602134680e522-34c4bb3e
 Date: Wed, 06 Jan 2010 15:15:35 GMT
 Call-ID: 55594b00-b441a917-1198-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 23748 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20

a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK43aba585
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f01f37f42c0c6-351f91ec
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944796
Date: Wed, 06 Jan 2010 15:15:35 GMT
Call-ID: 001a2f8d-f17f0004-3fe3cb46-77751f86@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 23116 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK43aba585
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f01f37f42c0c6-351f91ec
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944796
Date: Wed, 06 Jan 2010 15:15:35 GMT
Call-ID: 001a2f8d-f17f0004-3fe3cb46-77751f86@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 23116 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK17a598d8
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f01f37f42c0c6-351f91ec
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944796
Call-ID: 001a2f8d-f17f0004-3fe3cb46-77751f86@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 15:15:40 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] BYE sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK122052ef
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f01f37f42c0c6-351f91ec
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944796
Call-ID: 001a2f8d-f17f0004-3fe3cb46-77751f86@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 15:15:48 GMT
CSeq: 102 BYE

User-Agent: Cisco-CP7960G/7.5
Content-Length: 0

[diagram] Call-ID: [prev][next]

[13] BYE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e3b53544c52

From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944797

To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d602134680e522-34c4bb3e

Date: Wed, 06 Jan 2010 15:15:35 GMT

Call-ID: 55594b00-b441a917-1198-2d050505@5.5.5.45

User-Agent: Cisco-CUCM8.0

Max-Forwards: 70

CSeq: 102 BYE

Content-Length: 0

[diagram] Call-ID: [prev][next]

[14] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK122052ef

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f01f37f42c0c6-351f91ec

To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944796

Date: Wed, 06 Jan 2010 15:15:49 GMT

Call-ID: 001a2f8d-f17f0004-3fe3cb46-77751f86@5.5.5.240

CSeq: 102 BYE

Content-Length: 0

[diagram] Call-ID: [prev][next]

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e3b53544c52

From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944797

To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d602134680e522-34c4bb3e

Call-ID: 55594b00-b441a917-1198-2d050505@5.5.5.45

Date: Wed, 06 Jan 2010 15:15:49 GMT

CSeq: 102 BYE

Server: Cisco-CP7960G/7.5

Content-Length: 0

2.4 Basic Call - SIP Basic calls SIP Basic - Caller Id Restrictions

Title: Basic Call - SIP Basic calls SIP Basic - Caller Id Restrictions

Description:

A SIP Basic phone calls another SIP Basic phone. CallerId blocking restrictions configured in Unified CM Admin. User dial 71xxxx to activate CallId blocking. Unified CM strips "71" from dialed pattern.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

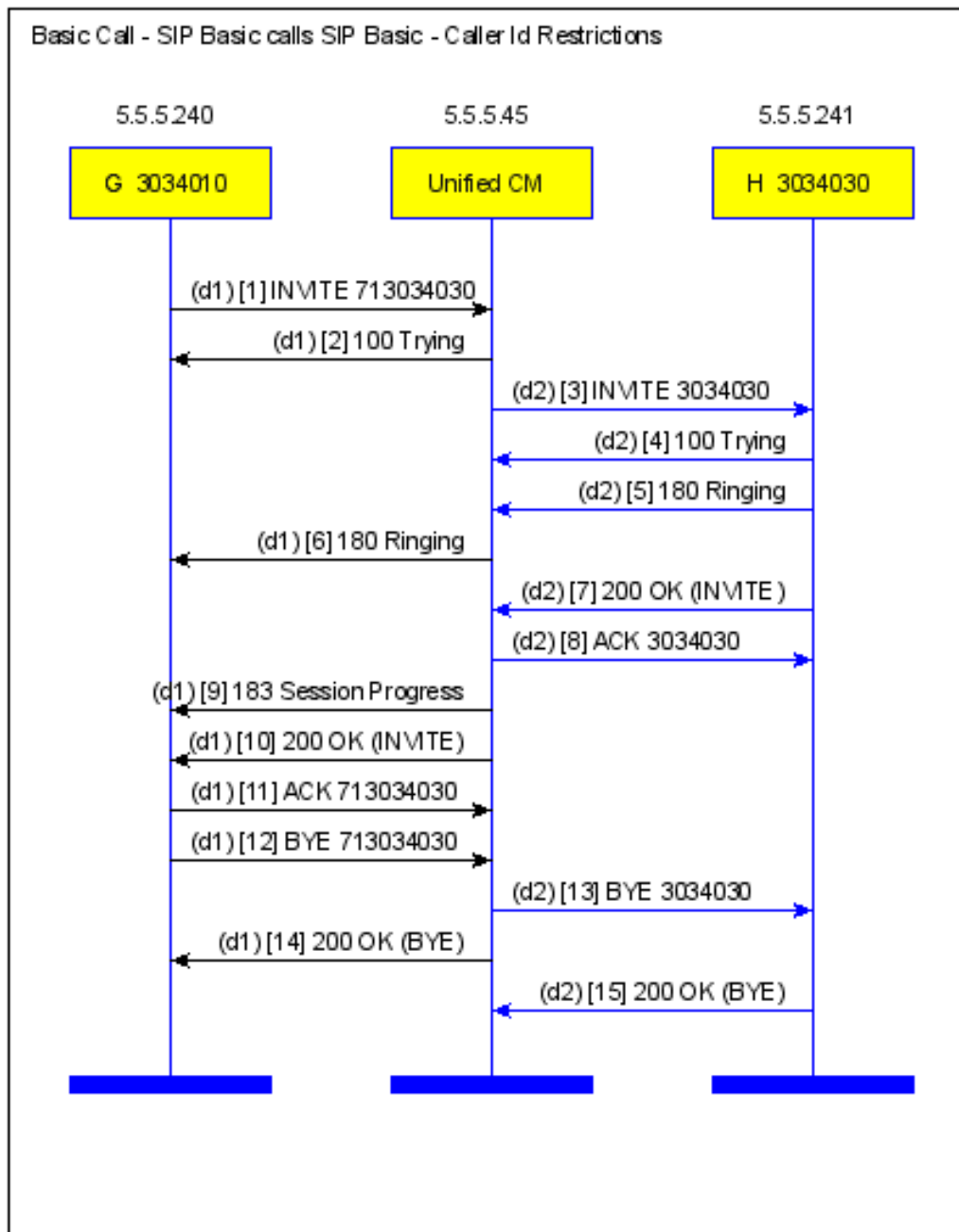
Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Scenario:

3034010 dials 713034030

3034030 answers

3034010 goes onhook



[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[1] INVITE sip:713034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1f50d8de
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00041c0ec696-5804195c
 To: <sip:713034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-4d32716d-2645f506@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 05 Jan 2010 23:48:04 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 9559 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 28002 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1f50d8de
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00041c0ec696-5804195c
 To: <sip:713034030@5.5.5.45>
 Date: Tue, 05 Jan 2010 23:48:05 GMT
 Call-ID: 001a2f8d-f17f0004-4d32716d-2645f506@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e305697aec1
 From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944795
 To: <sip:3034030@5.5.5.241>
 Date: Tue, 05 Jan 2010 23:48:05 GMT
 Call-ID: c35d2e00-b431cfb5-1191-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=full
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e305697aec1
 From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944795
 To: <sip:3034030@5.5.5.241>
 Call-ID: c35d2e00-b431cfb5-1191-2d050505@5.5.5.45
 Date: Tue, 05 Jan 2010 23:48:05 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e305697aec1
 From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944795
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60006759ac4b7-7c7ea1bf
 Call-ID: c35d2e00-b431cfb5-1191-2d050505@5.5.5.45
 Date: Tue, 05 Jan 2010 23:48:05 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1f50d8de
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00041c0ec696-5804195c
 To: <sip:713034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944794
 Date: Tue, 05 Jan 2010 23:48:05 GMT
 Call-ID: 001a2f8d-f17f0004-4d32716d-2645f506@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:713034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e305697aec1
 From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944795
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60006759ac4b7-7c7ea1bf
 Call-ID: c35d2e00-b431cfb5-1191-2d050505@5.5.5.45
 Date: Tue, 05 Jan 2010 23:48:08 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 11324 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 22286 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e3154f26618
 From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944795
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60006759ac4b7-7c7ea1bf
 Date: Tue, 05 Jan 2010 23:48:05 GMT
 Call-ID: c35d2e00-b431cfb5-1191-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 28002 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20


```
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1f50d8de
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00041c0ec696-5804195c
To: <sip:713034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944794
Date: Tue, 05 Jan 2010 23:48:05 GMT
Call-ID: 001a2f8d-f17f0004-4d32716d-2645f506@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:713034030@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 22286 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1f50d8de
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00041c0ec696-5804195c
To: <sip:713034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944794
Date: Tue, 05 Jan 2010 23:48:05 GMT
Call-ID: 001a2f8d-f17f0004-4d32716d-2645f506@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:713034030@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 22286 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:713034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK55fbf47a
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00041c0ec696-5804195c
To: <sip:713034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944794
Call-ID: 001a2f8d-f17f0004-4d32716d-2645f506@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 23:48:09 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] BYE sip:713034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK56526452
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00041c0ec696-5804195c
To: <sip:713034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944794
Call-ID: 001a2f8d-f17f0004-4d32716d-2645f506@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 23:48:14 GMT
CSeq: 102 BYE
```

User-Agent: Cisco-CP7960G/7.5
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] BYE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e3239397576
From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944795
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60006759ac4b7-7c7ea1bf
Date: Tue, 05 Jan 2010 23:48:05 GMT
Call-ID: c35d2e00-b431cfb5-1191-2d050505@5.5.5.45
User-Agent: Cisco-CUCM8.0
Max-Forwards: 70
CSeq: 102 BYE
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK56526452
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00041c0ec696-5804195c
To: <sip:713034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944794
Date: Tue, 05 Jan 2010 23:48:14 GMT
Call-ID: 001a2f8d-f17f0004-4d32716d-2645f506@5.5.5.240
CSeq: 102 BYE
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e3239397576
From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944795
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60006759ac4b7-7c7ea1bf
Call-ID: c35d2e00-b431cfb5-1191-2d050505@5.5.5.45
Date: Tue, 05 Jan 2010 23:48:14 GMT
CSeq: 102 BYE
Server: Cisco-CP7960G/7.5
Content-Length: 0

2.5 Multiple Lines Per Phone

Title: Multiple Lines Per Phone

Description:

Line 1 on G calls L. While G is still talking to L on line 1, G initiates a call to H using line 2.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010-3034011, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Phone = L, Line = 3034040, IP = 5.5.5.242, Model = SIP Basic

Scenario:

3034010 calls 3034040

3034040 answers

3034010 presses hold

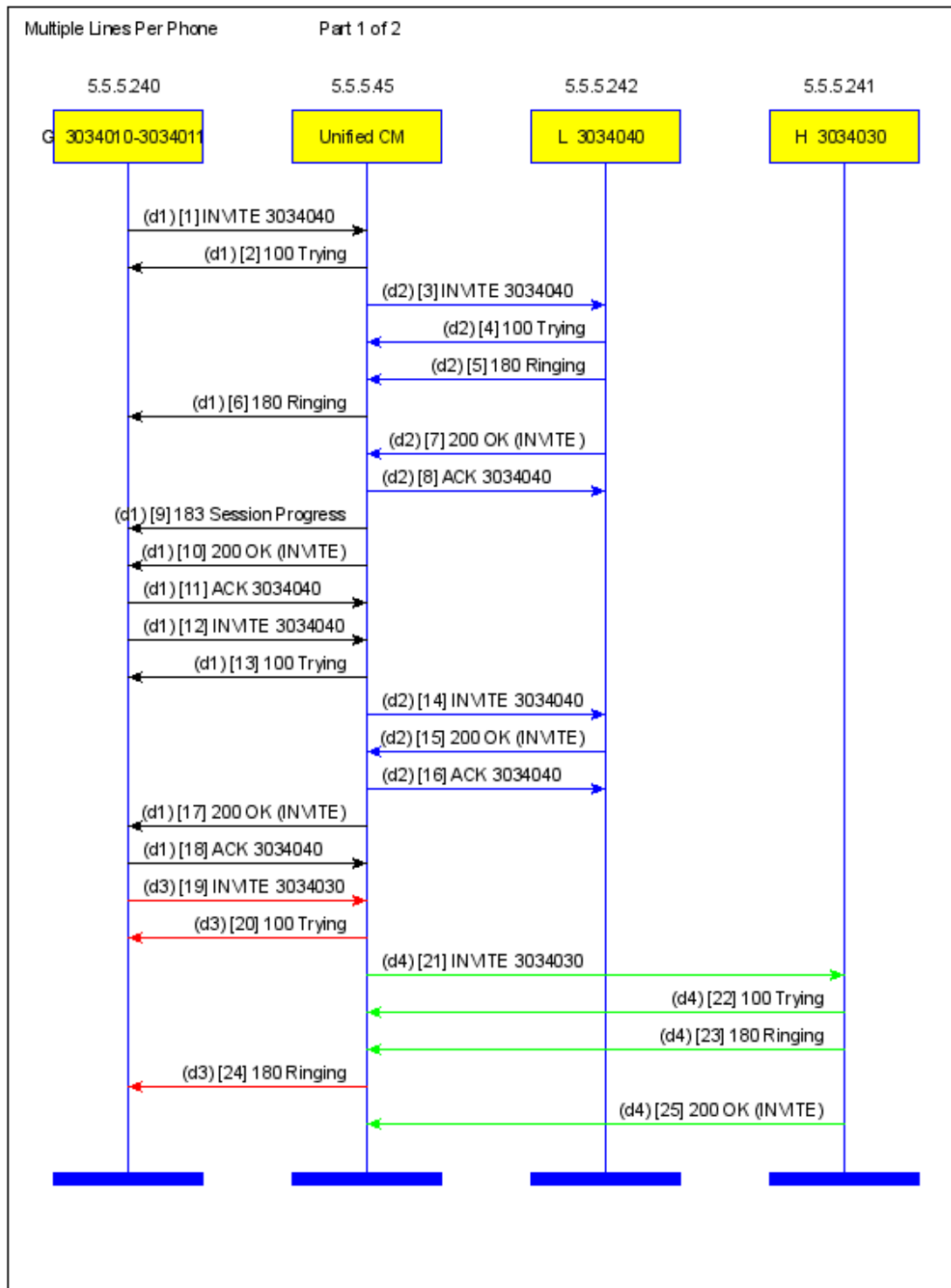
3034011 calls 3034030

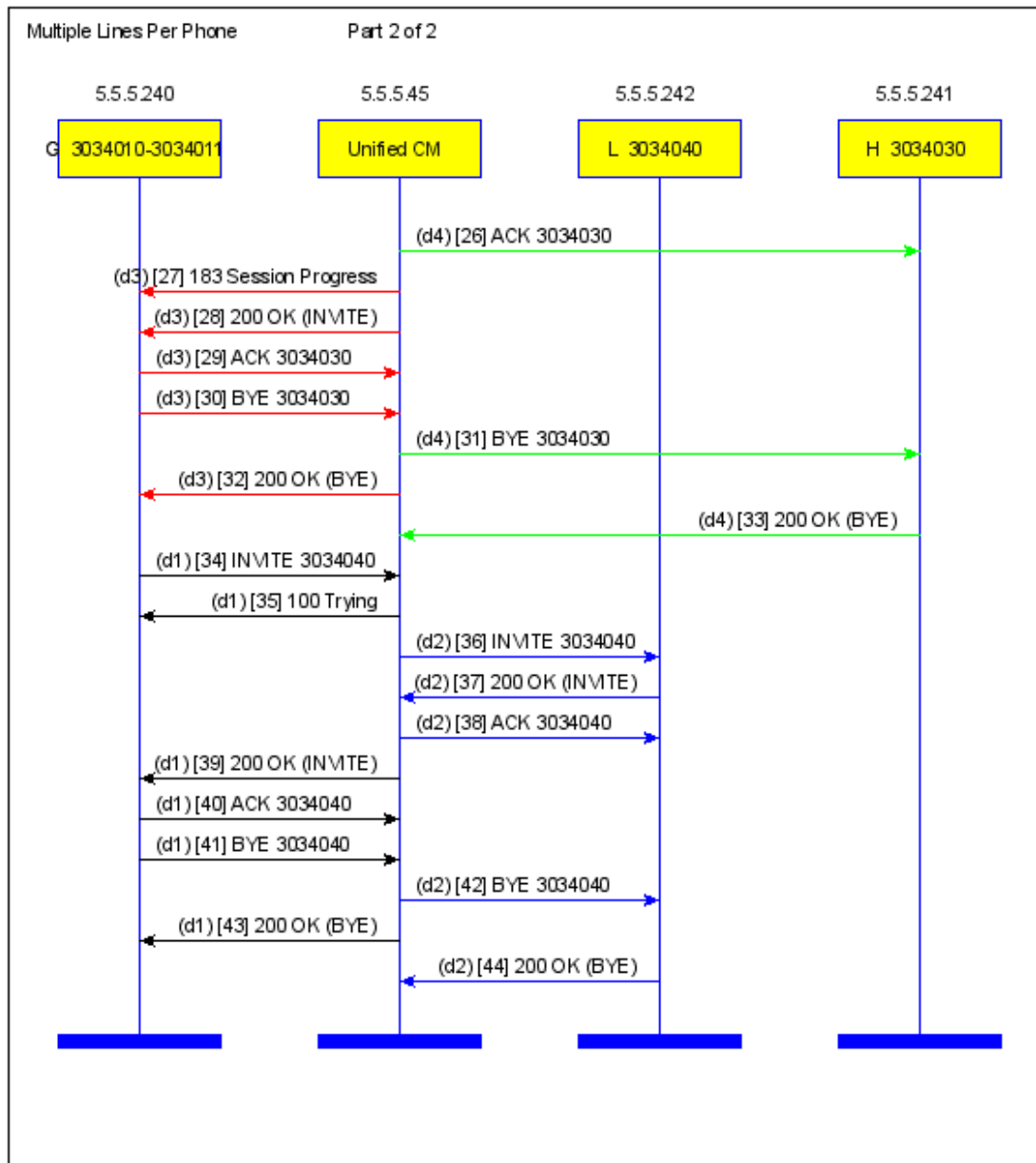
3034030 answers

3034011 ends calls with 3034030

3034010 resumes call with 3034040

3034010 ends call with 3034040





[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034040@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0430cf16
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 05 Jan 2010 23:04:51 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4818 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 27194 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0430cf16
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
 To: <sip:3034040@5.5.5.45>
 Date: Tue, 05 Jan 2010 23:04:52 GMT
 Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1a42648503
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
 To: <sip:3034040@5.5.5.242>
 Date: Tue, 05 Jan 2010 23:04:52 GMT
 Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034040@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1a42648503
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
 To: <sip:3034040@5.5.5.242>
 Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
 Date: Tue, 05 Jan 2010 23:04:51 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1a42648503
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00053141d2ba-1a144a28
 Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
 Date: Tue, 05 Jan 2010 23:04:51 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0430cf16
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
 Date: Tue, 05 Jan 2010 23:04:52 GMT
 Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034040@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1a42648503
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00053141d2ba-1a144a28
 Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
 Date: Tue, 05 Jan 2010 23:04:52 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 3255 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 19070 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.242
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1b11420545
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00053141d2ba-1a144a28
 Date: Tue, 05 Jan 2010 23:04:52 GMT
 Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 27194 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20

```
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0430cf16
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
Date: Tue, 05 Jan 2010 23:04:52 GMT
Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034040@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 19070 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0430cf16
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
Date: Tue, 05 Jan 2010 23:04:52 GMT
Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034040@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 19070 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034040@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK76e850e2
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 23:04:53 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] INVITE sip:3034040@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4daa7c2f
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 23:04:54 GMT
CSeq: 102 INVITE
```


User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4818 1 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 27194 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendonly

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4daa7c2f
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
 Date: Tue, 05 Jan 2010 23:04:55 GMT
 Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
 CSeq: 102 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1c414b2c88
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00053141d2ba-1a144a28
 Date: Tue, 05 Jan 2010 23:04:55 GMT
 Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 102 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 291

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 27194 RTP/AVP 0 8 18 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:8 PCMA/8000
 a=ptime:20
 a=rtpmap:18 G729/8000
 a=ptime:20
 a=sendonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1c414b2c88
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00053141d2ba-1a144a28
 Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
 Date: Tue, 05 Jan 2010 23:04:54 GMT
 CSeq: 102 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces

Content-Length: 198
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 3255 1 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 19070 RTP/AVP 0 101
 c=IN IP4 5.5.5.242
 a=rtpmap:0 PCMU/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=recvonly

[diagram] Call-ID: [prev][next]

[16] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1d1dc1f2ce
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00053141d2ba-1a144a28
 Date: Tue, 05 Jan 2010 23:04:55 GMT
 Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 102 ACK
 Allow-Events: presence
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[17] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4daa7c2f
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
 To: <sip:3034040@5.5.5.242>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
 Date: Tue, 05 Jan 2010 23:04:55 GMT
 Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
 CSeq: 102 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034040@5.5.5.45:5060>
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 217

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 19070 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=recvonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[diagram] Call-ID: [prev][next]

[18] ACK sip:3034040@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK731df343
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
 Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 05 Jan 2010 23:04:55 GMT
 CSeq: 102 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[19] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK705fee00
 From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007028bd969-0aec51da
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0005-0cea06e8-5c5f5c72@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 05 Jan 2010 23:05:04 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034011@5.5.5.240:5060>
 Expires: 180

```
Accept: application/sdp
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034011" <sip:3034011@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 248
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 5641 0 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 27198 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[20] SIP/2.0 100 Trying

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK705fee00
From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007028bd969-0aec51da
To: <sip:3034030@5.5.5.45>
Date: Tue, 05 Jan 2010 23:05:05 GMT
Call-ID: 001a2f8d-f17f0005-0cea06e8-5c5f5c72@5.5.5.240
CSeq: 101 INVITE
Allow-Events: presence
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[21] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1e2a1be7bc
From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944787
To: <sip:3034030@5.5.5.241>
Date: Tue, 05 Jan 2010 23:05:05 GMT
Call-ID: c1906c00-b431c5a1-1184-2d050505@5.5.5.45
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 101 INVITE
Expires: 180
Allow-Events: presence
Send-Info: conference
Alert-Info: <file://Bellcore-dr1/>
Contact: <sip:3034030@5.5.5.45:5060>
Remote-Party-ID: "SIP Basic 3034011" <sip:3034011@5.5.5.45;x-cisco-callback-number=3034011>;party=calling;screen=yes;privacy=off
Max-Forwards: 69
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[22] SIP/2.0 100 Trying

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1e2a1be7bc
From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944787
To: <sip:3034030@5.5.5.241>
Call-ID: c1906c00-b431c5a1-1184-2d050505@5.5.5.45
Date: Tue, 05 Jan 2010 23:05:05 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034030@5.5.5.241:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[23] SIP/2.0 180 Ringing

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1e2a1be7bc
From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944787
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600085e8ffed9-5398b109
Call-ID: c1906c00-b431c5a1-1184-2d050505@5.5.5.45
Date: Tue, 05 Jan 2010 23:05:05 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034030@5.5.5.241:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
```

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[24] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK705fee00
 From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007028bd969-0aec51da
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944786
 Date: Tue, 05 Jan 2010 23:05:05 GMT
 Call-ID: 001a2f8d-f17f0005-0cea06e8-5c5f5c72@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[25] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1e2a1be7bc
 From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944787
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600085e8ffed9-5398b109
 Call-ID: c1906c00-b431c5a1-1184-2d050505@5.5.5.45
 Date: Tue, 05 Jan 2010 23:05:07 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 5142 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 19192 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[26] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e1f24009204
 From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944787
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600085e8ffed9-5398b109
 Date: Tue, 05 Jan 2010 23:05:05 GMT
 Call-ID: c1906c00-b431c5a1-1184-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 27198 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[27] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK705fee00
 From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007028bd969-0aec51da
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944786
 Date: Tue, 05 Jan 2010 23:05:05 GMT
 Call-ID: 001a2f8d-f17f0005-0cea06e8-5c5f5c72@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

```

Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 19192 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[28] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK705fee00
From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007028bd969-0aec51da
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944786
Date: Tue, 05 Jan 2010 23:05:05 GMT
Call-ID: 001a2f8d-f17f0005-0cea06e8-5c5f5c72@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 19192 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[29] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK79226ecf
From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007028bd969-0aec51da
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944786
Call-ID: 001a2f8d-f17f0005-0cea06e8-5c5f5c72@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 23:05:08 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034011" <sip:3034011@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[30] BYE sip:3034030@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0ba80a10
From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007028bd969-0aec51da
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944786
Call-ID: 001a2f8d-f17f0005-0cea06e8-5c5f5c72@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 23:05:12 GMT
CSeq: 102 BYE
User-Agent: Cisco-CP7960G/7.5
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[31] BYE sip:3034030@5.5.5.241:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e2076eb8d13
From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944787
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600085e8ffed9-5398b109
Date: Tue, 05 Jan 2010 23:05:05 GMT
Call-ID: c1906c00-b431c5a1-1184-2d050505@5.5.5.45
User-Agent: Cisco-CUCM8.0
Max-Forwards: 70

```

CSeq: 102 BYE
Content-Length: 0

[[diagram](#)] [Call-ID:\[prev\]](#)[[next](#)]

[32] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0ba80a10
From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007028bd969-0aec51da
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944786
Date: Tue, 05 Jan 2010 23:05:13 GMT
Call-ID: 001a2f8d-f17f0005-0cea06e8-5c5f5c72@5.5.5.240
CSeq: 102 BYE
Content-Length: 0

[[diagram](#)] [Call-ID:\[prev\]](#)[[next](#)]

[33] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e2076eb8d13
From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944787
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600085e8ffed9-5398b109
Call-ID: c1906c00-b431c5a1-1184-2d050505@5.5.5.45
Date: Tue, 05 Jan 2010 23:05:13 GMT
CSeq: 102 BYE
Server: Cisco-CP7960G/7.5
Content-Length: 0

[[diagram](#)] [Call-ID:\[prev\]](#)[[next](#)]

[34] INVITE sip:3034040@5.5.5.45:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK04c20bcf
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 23:05:15 GMT
CSeq: 103 INVITE
User-Agent: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 248
Content-Type: application/sdp
Content-Disposition: session;handling=optional

v=0
o=Cisco-SIPUA 4818 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 27194 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv

[[diagram](#)] [Call-ID:\[prev\]](#)[[next](#)]

[35] SIP/2.0 100 Trying
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK04c20bcf
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
Date: Tue, 05 Jan 2010 23:05:16 GMT
Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
CSeq: 103 INVITE
Allow-Events: presence
Content-Length: 0

[[diagram](#)] [Call-ID:\[prev\]](#)[[next](#)]

[36] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e214c050ef2
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00053141d2ba-1a144a28
Date: Tue, 05 Jan 2010 23:05:16 GMT
Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 103 INVITE
Max-Forwards: 70
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Allow-Events: presence

Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 279

```
v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.240
t=0 0
m=audio 27194 RTP/AVP 0 8 18 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:8 PCMA/8000
a=ptime:20
a=rtpmap:18 G729/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[37] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e214c050ef2
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00053141d2ba-1a144a28
Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
Date: Tue, 05 Jan 2010 23:05:14 GMT
CSeq: 103 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 198
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 3255 2 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 19070 RTP/AVP 0 101
c=IN IP4 5.5.5.242
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[38] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e2269e1eb8
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00053141d2ba-1a144a28
Date: Tue, 05 Jan 2010 23:05:16 GMT
Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 103 ACK
Allow-Events: presence
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[39] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK04c20bcf
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
Date: Tue, 05 Jan 2010 23:05:16 GMT
Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
CSeq: 103 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034040@5.5.5.45:5060>
Supported: replaces
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
```



```
m=audio 19070 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[40] ACK sip:3034040@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1e7d4228
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 23:05:15 GMT
CSeq: 103 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[41] BYE sip:3034040@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK46c4d5af
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
Max-Forwards: 70
Date: Tue, 05 Jan 2010 23:05:18 GMT
CSeq: 104 BYE
User-Agent: Cisco-CP7960G/7.5
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[42] BYE sip:3034040@5.5.5.242:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e23254e9c92
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00053141d2ba-1a144a28
Date: Tue, 05 Jan 2010 23:05:16 GMT
Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
User-Agent: Cisco-CUCM8.0
Max-Forwards: 70
CSeq: 104 BYE
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[43] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK46c4d5af
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0005656d1076-1714347c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944784
Date: Tue, 05 Jan 2010 23:05:19 GMT
Call-ID: 001a2f8d-f17f0004-4b21509f-7dc6b39e@5.5.5.240
CSeq: 104 BYE
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[44] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e23254e9c92
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944785
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00053141d2ba-1a144a28
Call-ID: b9d0c780-b431c594-1183-2d050505@5.5.5.45
Date: Tue, 05 Jan 2010 23:05:17 GMT
CSeq: 104 BYE
Server: Cisco-CP7960G/7.5
Content-Length: 0
```


2.6 Multiple Calls Per Line

Title: Multiple Calls Per Line

Description:

G calls L. While G is still talking to L, H calls G.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Phone = L, Line = 3034040, IP = 5.5.5.242, Model = SIP Basic

Scenario:

3034010 calls 3034040

3034040 answers

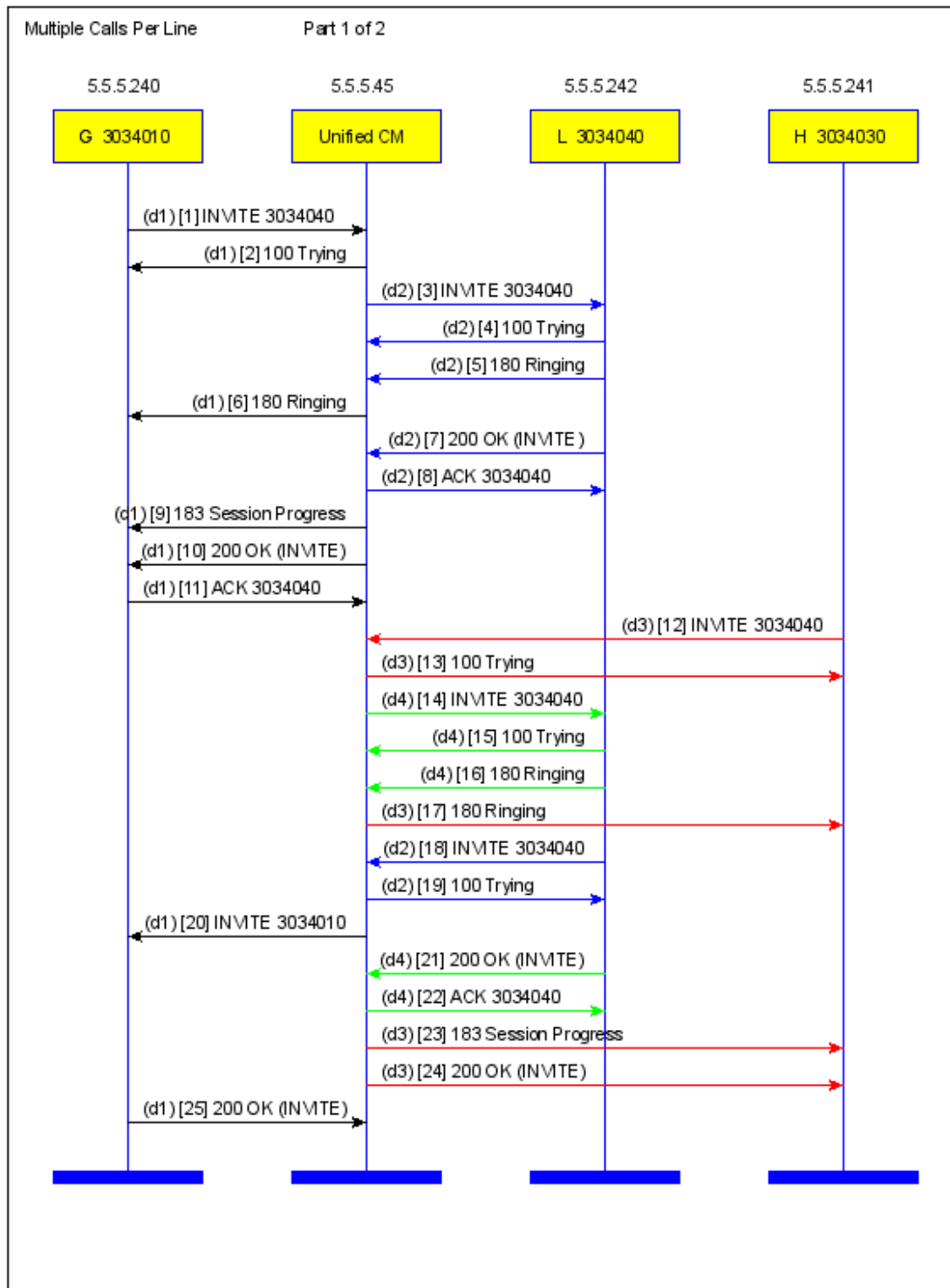
3034030 calls 3034040

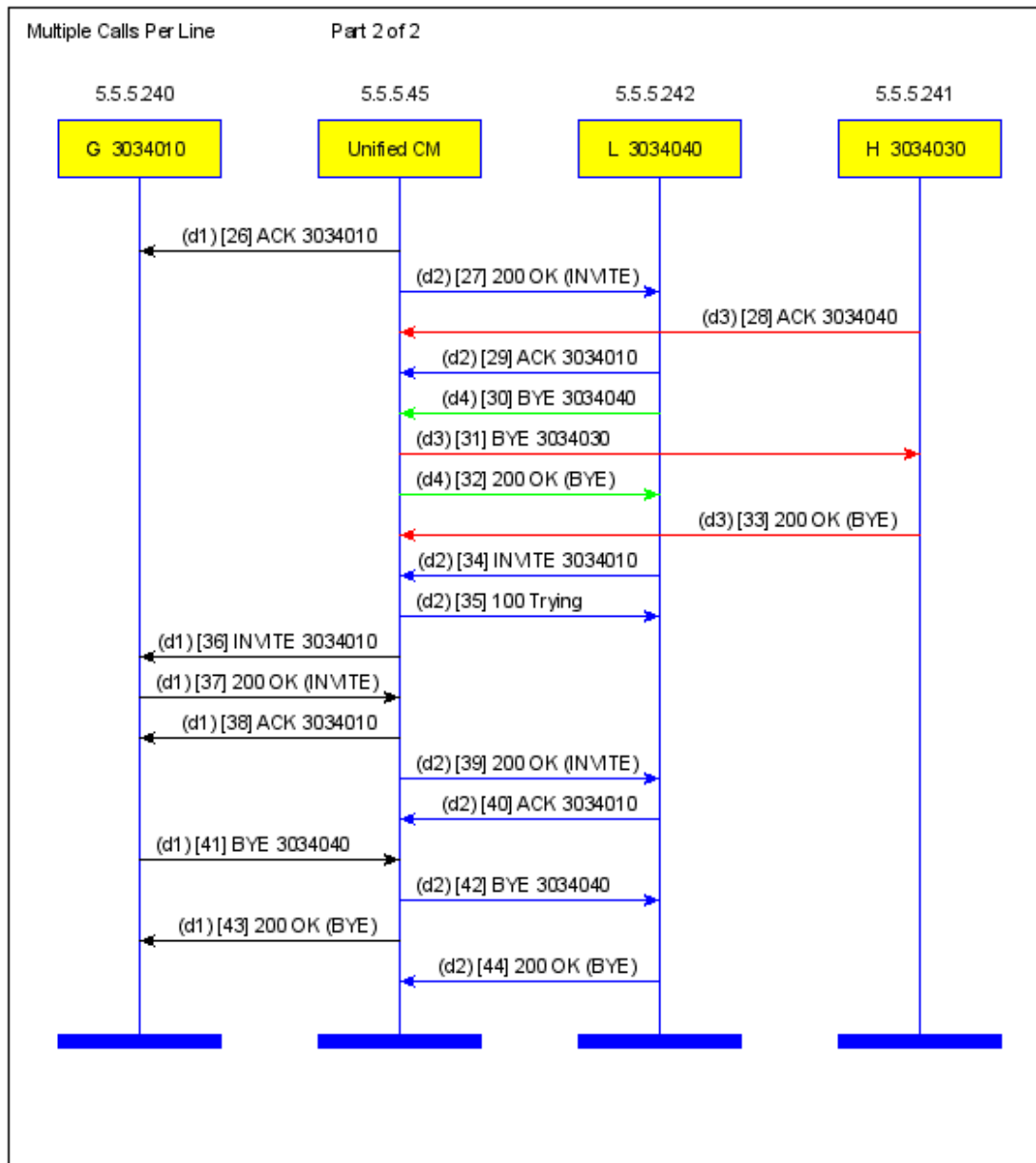
3034040 answers

3034040 ends call from 3034030

3034040 resumes call with 3034010

3034010 ends call with 3034040





[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034040@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK315368bd
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:47:18 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 24022 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 28310 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK315368bd
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
 To: <sip:3034040@5.5.5.45>
 Date: Wed, 20 Jan 2010 00:47:18 GMT
 Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a15273b099
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
 To: <sip:3034040@5.5.5.242>
 Date: Wed, 20 Jan 2010 00:47:18 GMT
 Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034040@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a15273b099
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
 To: <sip:3034040@5.5.5.242>
 Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:47:18 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a15273b099
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
 Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:47:18 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK315368bd
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
 Date: Wed, 20 Jan 2010 00:47:18 GMT
 Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034040@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a15273b099
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
 Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:47:19 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 7846 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 28148 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.242
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a242bee5ad
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
 Date: Wed, 20 Jan 2010 00:47:18 GMT
 Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 28310 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20

```
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK315368bd
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
Date: Wed, 20 Jan 2010 00:47:18 GMT
Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034040@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 28148 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK315368bd
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
Date: Wed, 20 Jan 2010 00:47:18 GMT
Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034040@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 28148 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034040@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK38951119
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
Max-Forwards: 70
Date: Wed, 20 Jan 2010 00:47:20 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] INVITE sip:3034040@5.5.5.45 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK21324f66
From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000752a29a78-3cddcc58
To: <sip:3034040@5.5.5.45>
Call-ID: 001a2fcb-77d60006-716cd7bf-44fb7801@5.5.5.241
Max-Forwards: 70
Date: Wed, 20 Jan 2010 00:47:32 GMT
CSeq: 101 INVITE
```

User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 19873 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 23940 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[13] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK21324f66
 From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000752a29a78-3cddcc58
 To: <sip:3034040@5.5.5.45>
 Date: Wed, 20 Jan 2010 00:47:33 GMT
 Call-ID: 001a2fcb-77d60006-716cd7bf-44fb7801@5.5.5.241
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[14] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a366b72565
 From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454956
 To: <sip:3034040@5.5.5.242>
 Date: Wed, 20 Jan 2010 00:47:33 GMT
 Call-ID: 63d74600-b56152a5-856-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034040@5.5.5.45:5060>
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45;x-cisco-callback-number=3034030>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[15] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a366b72565
 From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454956
 To: <sip:3034040@5.5.5.242>
 Call-ID: 63d74600-b56152a5-856-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:47:32 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[16] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a366b72565
 From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454956
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0007146c2be2-0f4c1757
 Call-ID: 63d74600-b56152a5-856-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:47:33 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5

Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[17] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK21324f66
 From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000752a29a78-3cddcc58
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454955
 Date: Wed, 20 Jan 2010 00:47:33 GMT
 Call-ID: 001a2fcb-77d60006-716cd7bf-44fb7801@5.5.5.241
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034040@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[18] INVITE sip:3034040@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK7369b08f
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
 Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:47:34 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 7846 1 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 28148 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.242
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendonly

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[19] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK7369b08f
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
 Date: Wed, 20 Jan 2010 00:47:35 GMT
 Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[20] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a4d4be9a8
 From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
 Date: Wed, 20 Jan 2010 00:47:35 GMT
 Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
 Supported: timer, resource-priority, replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Max-Forwards: 70
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 291


```

v=0
o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 28148 RTP/AVP 0 8 18 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:8 PCMA/8000
a=ptime:20
a=rtpmap:18 G729/8000
a=ptime:20
a=sendonly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[21] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a366b72565
From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454956
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0007146c2be2-0f4c1757
Call-ID: 63d74600-b56152a5-856-2d050505@5.5.5.45
Date: Wed, 20 Jan 2010 00:47:34 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 248
Content-Type: application/sdp
Content-Disposition: session;handling=optional

```

```

v=0
o=Cisco-SIPUA 6170 0 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 28152 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.242
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[22] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a517782681
From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454956
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0007146c2be2-0f4c1757
Date: Wed, 20 Jan 2010 00:47:33 GMT
Call-ID: 63d74600-b56152a5-856-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 101 ACK
Allow-Events: presence
Content-Type: application/sdp
Content-Length: 205

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 23940 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[23] SIP/2.0 183 Session Progress

```

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK21324f66
From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000752a29a78-3cddcc58
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454955
Date: Wed, 20 Jan 2010 00:47:33 GMT
Call-ID: 001a2fcb-77d60006-716cd7bf-44fb7801@5.5.5.241
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence

```

Contact: <sip:3034040@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 28152 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[24] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK21324f66
 From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000752a29a78-3cddcc58
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454955
 Date: Wed, 20 Jan 2010 00:47:33 GMT
 Call-ID: 001a2fcb-77d60006-716cd7bf-44fb7801@5.5.5.241
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034040@5.5.5.45:5060>
 Supported: replaces
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 28152 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[25] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a4d4be9a8
 From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
 Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
 Date: Wed, 20 Jan 2010 00:47:35 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 199
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 24022 1 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 28310 RTP/AVP 0 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=recvonly

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[26] ACK sip:3034010@5.5.5.240:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a6539c94f2
 From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
 Date: Wed, 20 Jan 2010 00:47:35 GMT
 Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240

Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[27] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK7369b08f
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
 Date: Wed, 20 Jan 2010 00:47:35 GMT
 Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034010@5.5.5.45:5060>
 Supported: replaces
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 217

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 28310 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=recvonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[28] ACK sip:3034040@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK488e0805
 From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000752a29a78-3cddcc58
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454955
 Call-ID: 001a2fcb-77d60006-716cd7bf-44fb7801@5.5.5.241
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:47:34 GMT
 CSeq: 101 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[29] ACK sip:3034010@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK267d2d2b
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
 Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:47:34 GMT
 CSeq: 101 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[30] BYE sip:3034040@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK7376847b
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0007146c2be2-0f4c1757
 To: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454956
 Call-ID: 63d74600-b56152a5-856-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:47:42 GMT
 CSeq: 101 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[31] BYE sip:3034030@5.5.5.241:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a71175462f
 From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454955
 To: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000752a29a78-3cddcc58
 Date: Wed, 20 Jan 2010 00:47:35 GMT
 Call-ID: 001a2fcb-77d60006-716cd7bf-44fb7801@5.5.5.241
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70

CSeq: 101 BYE
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[32] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK7376847b
From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0007146c2be2-0f4c1757
To: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454956
Date: Wed, 20 Jan 2010 00:47:43 GMT
Call-ID: 63d74600-b56152a5-856-2d050505@5.5.5.45
CSeq: 101 BYE
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[33] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a71175462f
From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454955
To: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000752a29a78-3cddcc58
Call-ID: 001a2fcb-77d60006-716cd7bf-44fb7801@5.5.5.241
Date: Wed, 20 Jan 2010 00:47:41 GMT
CSeq: 101 BYE
Server: Cisco-CP7960G/7.5
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[34] INVITE sip:3034010@5.5.5.45:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK2908cc16
From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
Max-Forwards: 70
Date: Wed, 20 Jan 2010 00:47:47 GMT
CSeq: 102 INVITE
User-Agent: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Content-Length: 248
Content-Type: application/sdp
Content-Disposition: session;handling=optional

v=0
o=Cisco-SIPUA 7846 2 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 28148 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.242
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[35] SIP/2.0 100 Trying
Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK2908cc16
From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
Date: Wed, 20 Jan 2010 00:47:48 GMT
Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
CSeq: 102 INVITE
Allow-Events: presence
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[36] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a870e441da
From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
Date: Wed, 20 Jan 2010 00:47:48 GMT
Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 102 INVITE
Max-Forwards: 70
Contact: <sip:3034040@5.5.5.45:5060>
Expires: 180
Allow-Events: presence

Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 279

```
v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 28148 RTP/AVP 0 8 18 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:8 PCMA/8000
a=ptime:20
a=rtpmap:18 G729/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[37] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a870e441da
 From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
 Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
 Date: Wed, 20 Jan 2010 00:47:48 GMT
 CSeq: 102 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 199
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

```
v=0
o=Cisco-SIPUA 24022 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 28310 RTP/AVP 0 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[38] ACK sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a91826bcd6
 From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
 Date: Wed, 20 Jan 2010 00:47:48 GMT
 Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
 Max-Forwards: 70
 CSeq: 102 ACK
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[39] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK2908cc16
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
 Date: Wed, 20 Jan 2010 00:47:48 GMT
 Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
 CSeq: 102 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034010@5.5.5.45:5060>
 Supported: replaces
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

```
v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.240
t=0 0
```

```
m=audio 28310 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[40] ACK sip:3034040@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK0b5c1714
From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
Max-Forwards: 70
Date: Wed, 20 Jan 2010 00:47:48 GMT
CSeq: 102 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[41] BYE sip:3034040@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4026f85f
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
Max-Forwards: 70
Date: Wed, 20 Jan 2010 00:48:01 GMT
CSeq: 102 BYE
User-Agent: Cisco-CP7960G/7.5
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[42] BYE sip:3034040@5.5.5.242:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8aafe4f6fb
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
Date: Wed, 20 Jan 2010 00:47:49 GMT
Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
User-Agent: Cisco-CUCM8.0
Max-Forwards: 70
CSeq: 102 BYE
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[43] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4026f85f
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063da13961-5b41966c
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454953
Date: Wed, 20 Jan 2010 00:48:01 GMT
Call-ID: 001a2f8d-f17f0004-61d27c42-490d3431@5.5.5.240
CSeq: 102 BYE
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[44] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8aafe4f6fb
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454954
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000517130a7b-7cd00b0b
Call-ID: 5ae67480-b5615296-855-2d050505@5.5.5.45
Date: Wed, 20 Jan 2010 00:48:00 GMT
CSeq: 102 BYE
Server: Cisco-CP7960G/7.5
Content-Length: 0
```

2.7 Basic Call - SIP Basic calls SIP Basic No Answer

Title: Basic Call - SIP Basic calls SIP Basic No Answer

Description:

A SIP Basic phone calls another SIP Basic phone but the originating phone goes onhook cancelling the call.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

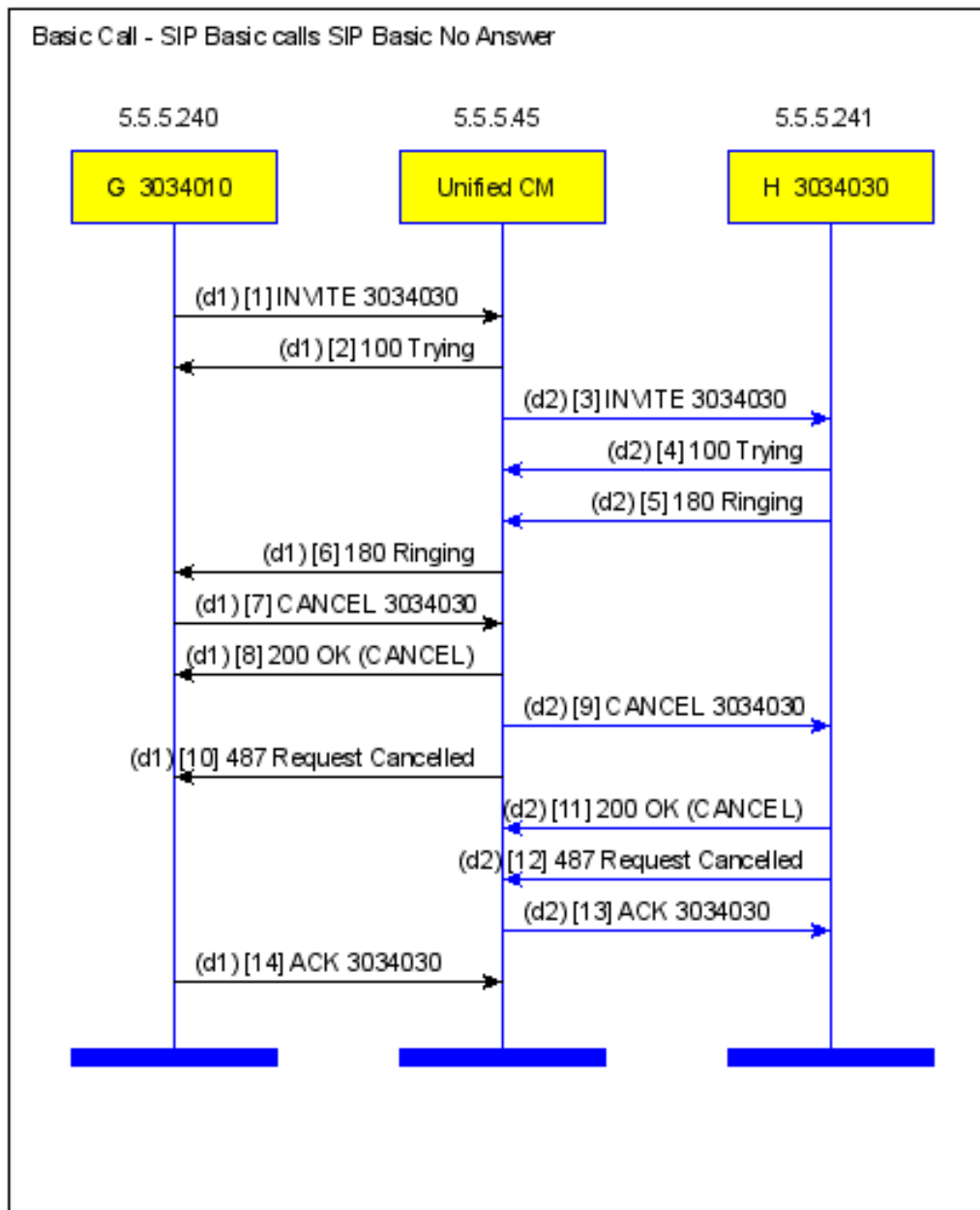
Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Scenario:

3034010 calls 3034030

3034030 does not answer

3034010 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK30809cd0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0007139e862c-7af6adc8
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-7ec430cb-5251bfae@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 15:58:36 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 16473 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 26716 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK30809cd0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0007139e862c-7af6adc8
 To: <sip:3034030@5.5.5.45>
 Date: Wed, 06 Jan 2010 15:58:37 GMT
 Call-ID: 001a2f8d-f17f0004-7ec430cb-5251bfae@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4479a11b6b
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944802
 To: <sip:3034030@5.5.5.241>
 Date: Wed, 06 Jan 2010 15:58:37 GMT
 Call-ID: 58573a00-b441b32d-11a1-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4479a11b6b
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944802
 To: <sip:3034030@5.5.5.241>
 Call-ID: 58573a00-b441b32d-11a1-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 15:58:36 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4479a11b6b
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944802
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000931581c0d-7e80f638
 Call-ID: 58573a00-b441b32d-11a1-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 15:58:36 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK30809cd0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0007139e862c-7af6adc8
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944801
 Date: Wed, 06 Jan 2010 15:58:37 GMT
 Call-ID: 001a2f8d-f17f0004-7ec430cb-5251bfae@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] CANCEL sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK30809cd0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0007139e862c-7af6adc8
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-7ec430cb-5251bfae@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 15:58:45 GMT
 CSeq: 101 CANCEL
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK30809cd0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0007139e862c-7af6adc8
 To: <sip:3034030@5.5.5.45>
 Date: Wed, 06 Jan 2010 15:58:46 GMT
 Call-ID: 001a2f8d-f17f0004-7ec430cb-5251bfae@5.5.5.240
 CSeq: 101 CANCEL
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[9] CANCEL sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4479a11b6b
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944802
 To: <sip:3034030@5.5.5.241>
 Date: Wed, 06 Jan 2010 15:58:37 GMT
 Call-ID: 58573a00-b441b32d-11a1-2d050505@5.5.5.45
 CSeq: 101 CANCEL
 Max-Forwards: 70
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[10] SIP/2.0 487 Request Cancelled

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK30809cd0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0007139e862c-7af6adc8
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944801
 Date: Wed, 06 Jan 2010 15:58:46 GMT
 Call-ID: 001a2f8d-f17f0004-7ec430cb-5251bfae@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[11] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4479a11b6b
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944802
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000931581c0d-7e80f638
 Call-ID: 58573a00-b441b32d-11a1-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 15:58:45 GMT

CSeq: 101 CANCEL
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] SIP/2.0 487 Request Cancelled

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4479a11b6b
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944802
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000931581c0d-7e80f638
 Call-ID: 58573a00-b441b32d-11a1-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 15:58:45 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4479a11b6b
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944802
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000931581c0d-7e80f638
 Date: Wed, 06 Jan 2010 15:58:37 GMT
 Call-ID: 58573a00-b441b32d-11a1-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] ACK sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK30809cd0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0007139e862c-7af6adc8
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944801
 Call-ID: 001a2f8d-f17f0004-7ec430cb-5251bfae@5.5.5.240
 Date: Wed, 06 Jan 2010 15:58:45 GMT
 CSeq: 101 ACK
 Content-Length: 0

2.8 Call Screening (Normal blocked)

Title: Call Screening (Normal blocked)

Description:

A SIP Basic phone attempts to call a blocked dialing pattern.
In this scenario, the blocked pattern (667) is configured
with a "no error" blocking reason.

Note, Cisco SIP Phone and SCCP phones would clear the call on the phone
without playing re-order. However a 3rd party phone might play re-order.

Configuration:

Node = Unified CM, IP = 5.5.5.45

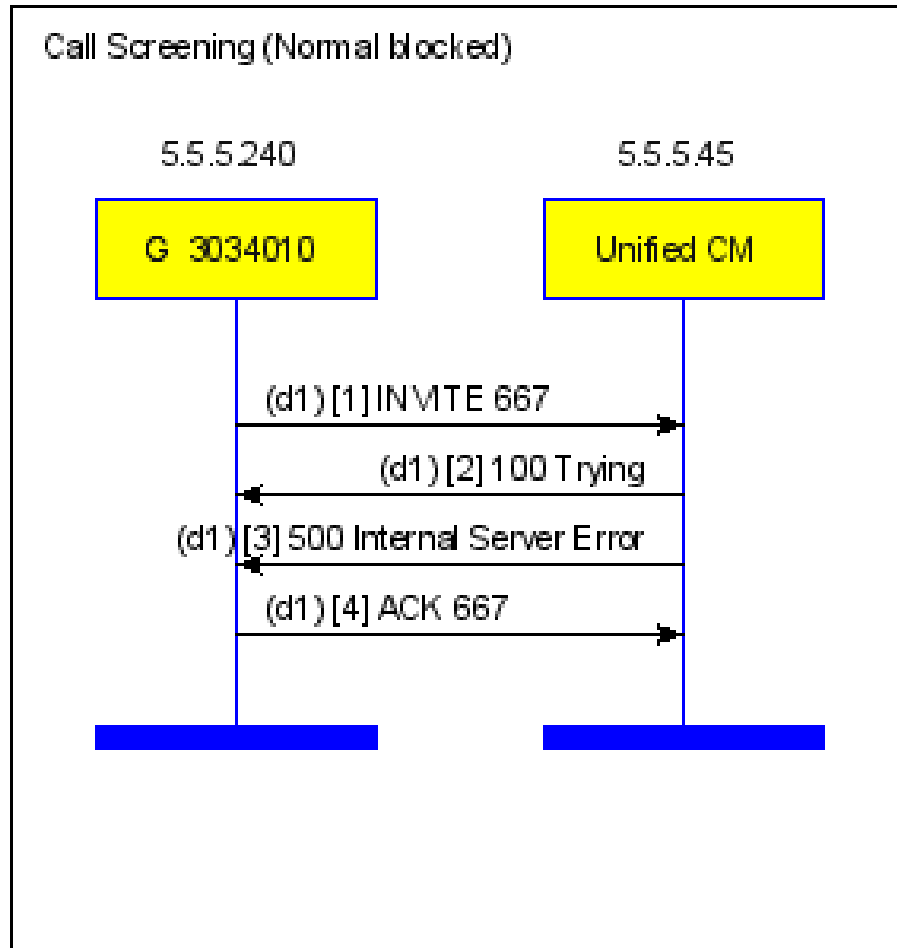
Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Scenario:

3034010 dials 667

Unified CM generates a 500 back to the phone

3034010 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:667@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK763bb218
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c7d65388b-09c789ad
 To: <sip:667@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-3a479c44-1abc28c7@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 05 Jan 2010 23:26:09 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 23537 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 32704 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK763bb218
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c7d65388b-09c789ad
 To: <sip:667@5.5.5.45>
 Date: Tue, 05 Jan 2010 23:26:08 GMT
 Call-ID: 001a2f8d-f17f0004-3a479c44-1abc28c7@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 500 Internal Server Error

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK763bb218
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c7d65388b-09c789ad
 To: <sip:667@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944788
 Date: Tue, 05 Jan 2010 23:26:08 GMT
 Call-ID: 001a2f8d-f17f0004-3a479c44-1abc28c7@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] ACK sip:667@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK763bb218
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c7d65388b-09c789ad
 To: <sip:667@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944788
 Call-ID: 001a2f8d-f17f0004-3a479c44-1abc28c7@5.5.5.240
 Date: Tue, 05 Jan 2010 23:26:09 GMT
 CSeq: 101 ACK
 Content-Length: 0

2.9 Call Screening (Rejected blocked)

Title: Call Screening (Rejected blocked)

Description:

A SIP Basic phone attempts to call a blocked dialing pattern.
In this scenario, the blocked pattern (666) is configured with
a "call rejected" blocking reason.

Configuration:

Node = Unified CM, IP = 5.5.5.45

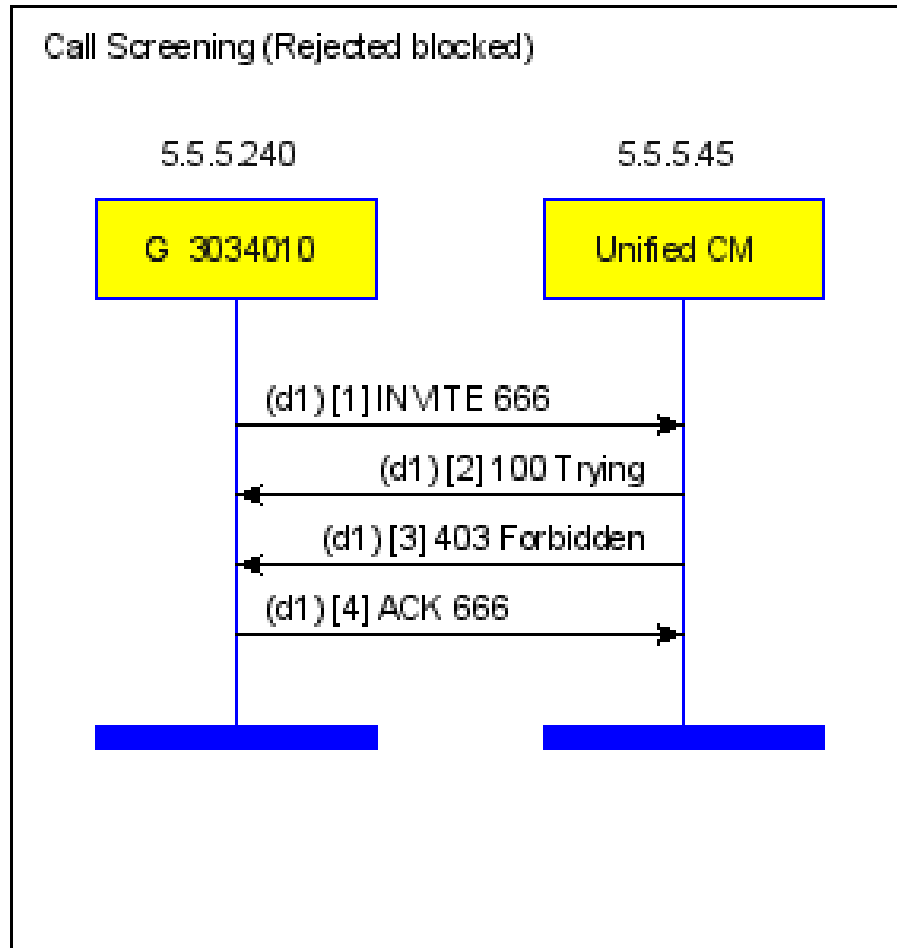
Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Scenario:

3034010 dials 666

Unified CM generates a 403 to the phone and the phone plays reorder

3034010 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:666@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK17fc64e1
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000530ff5e20-6269bb13
 To: <sip:666@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-064931da-6c18f03c@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 05 Jan 2010 23:34:03 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 246
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 76 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 31132 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK17fc64e1
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000530ff5e20-6269bb13
 To: <sip:666@5.5.5.45>
 Date: Tue, 05 Jan 2010 23:34:03 GMT
 Call-ID: 001a2f8d-f17f0004-064931da-6c18f03c@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 403 Forbidden

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK17fc64e1
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000530ff5e20-6269bb13
 To: <sip:666@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944790
 Date: Tue, 05 Jan 2010 23:34:03 GMT
 Call-ID: 001a2f8d-f17f0004-064931da-6c18f03c@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Reason: Q.850;cause=21
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] ACK sip:666@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK17fc64e1
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000530ff5e20-6269bb13
 To: <sip:666@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944790
 Call-ID: 001a2f8d-f17f0004-064931da-6c18f03c@5.5.5.240
 Date: Tue, 05 Jan 2010 23:34:03 GMT
 CSeq: 101 ACK
 Content-Length: 0

2.10 Basic Call - SIP Basic calls unknown number

Title: Basic Call - SIP Basic calls unknown number

Description:

A SIP Basic phone calls an unknown number. "2099" is not configured.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

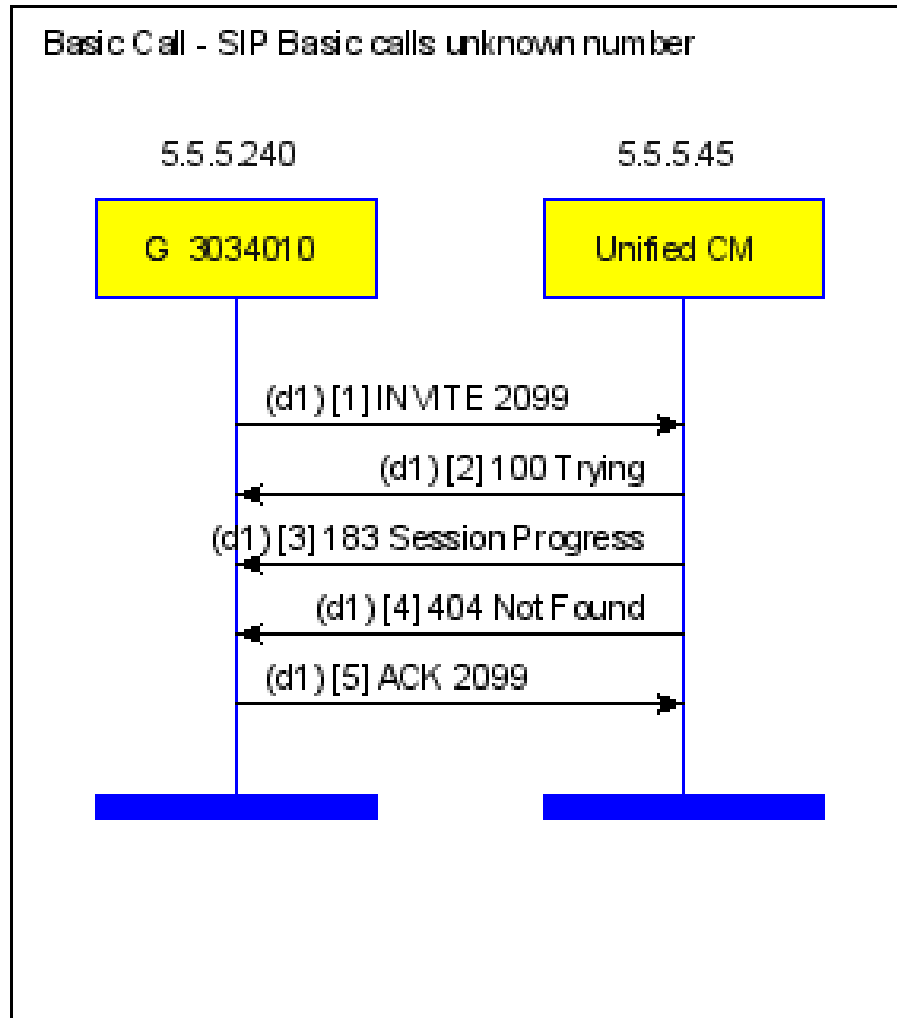
Scenario:

3034010 calls 2099

An annunciator is allocated and an announcement is played to phone
indicating the call could not be complete as dialed

"404 not found" is sent back to 3034010 once announcement is completed

3034010 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:2099@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK13b3d66a
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00863b166798-20988738
 To: <sip:2099@5.5.5.45>
 Call-ID: 001a2f8d-f17f0014-099552d7-4554be75@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 26 Jan 2010 22:19:30 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 20188 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 32440 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK13b3d66a
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00863b166798-20988738
 To: <sip:2099@5.5.5.45>
 Date: Tue, 26 Jan 2010 22:19:29 GMT
 Call-ID: 001a2f8d-f17f0014-099552d7-4554be75@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK13b3d66a
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00863b166798-20988738
 To: <sip:2099@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455666
 Date: Tue, 26 Jan 2010 22:19:29 GMT
 Call-ID: 001a2f8d-f17f0014-099552d7-4554be75@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:2099@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: <sip:2099@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 159

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.45
 t=0 0
 m=audio 4000 RTP/AVP 0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=sendonly

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 404 Not Found

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK13b3d66a
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00863b166798-20988738
 To: <sip:2099@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455666
 Date: Tue, 26 Jan 2010 22:19:29 GMT
 Call-ID: 001a2f8d-f17f0014-099552d7-4554be75@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Reason: Q.850;cause=1

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] ACK sip:2099@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK13b3d66a

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00863b166798-20988738

To: <sip:2099@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455666

Call-ID: 001a2f8d-f17f0014-099552d7-4554be75@5.5.5.240

Date: Tue, 26 Jan 2010 22:19:39 GMT

CSeq: 101 ACK

Content-Length: 0

2.11 486 Busy Here

Title: 486 Busy Here

Description:

Most SIP phones driven by the Unified CM will have their "busy trigger" managed by the Unified CM such that if enough active calls to make the phone "busy" are already detected on that device then the Unified CM won't send additional INVITEs.

It is possible to either configure the Unified CM such that it's "busy" definition is for more active calls than the phone can handle or to make the phone busy with calls the Unified CM is not aware of.

If the phone detects that its busy it can respond with 486 Busy Here.

Note: Unified CM's configured call forward busy to DN's or call forward busy to voicemail will not be triggered by 486.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Phone = L, Line = 3034040, IP = 5.5.5.242, Model = SIP Basic

Scenario:

(Setup: Make 3034030 Busy)

3034040 calls 3034030

3034030 rings

3034030 answers

3034040 and 3034030 are connected

3034030 puts 3034040 on hold

3034030 starts a new call (does not finish dialing)

(This makes the line "busy"...no more calls accepted)

(Actual Call)

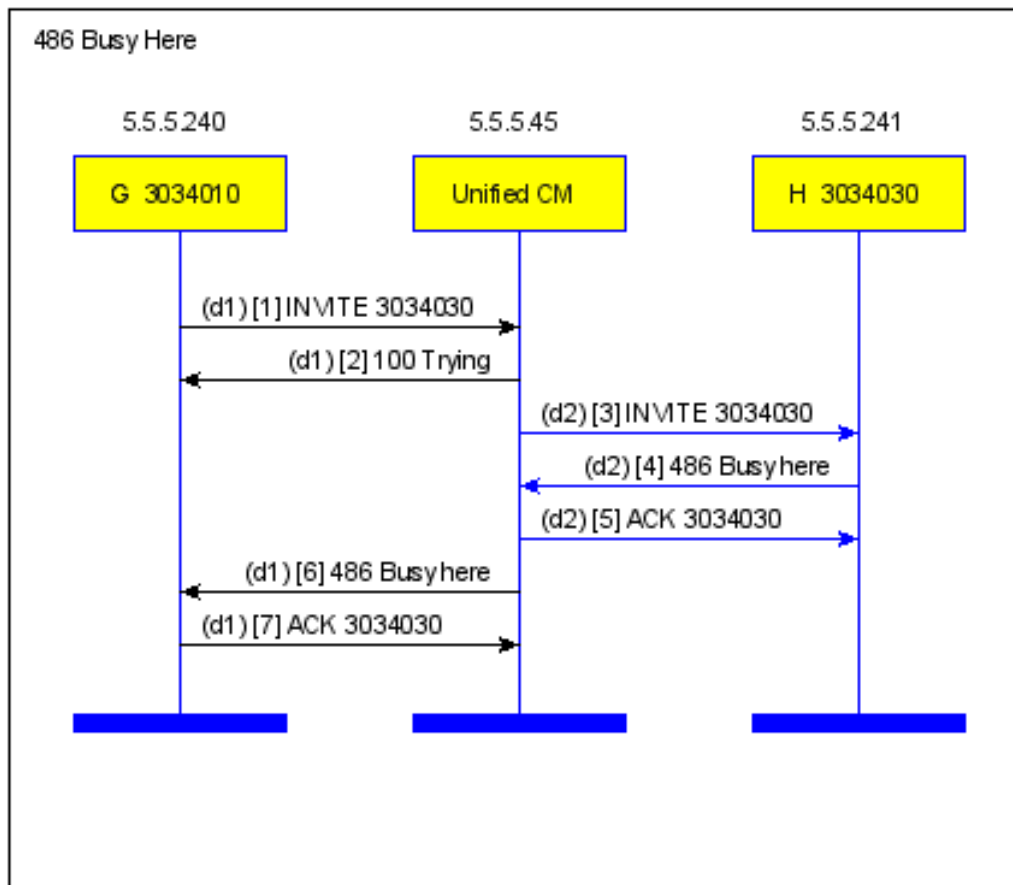
3034010 calls 3034030

3034030 responds with "486 Busy Here"

3034010 gets busy tone

3034010 goes onhook

3034040 goes onhook



[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[1] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK42294d3e
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00082062d544-714c68b2
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-266f4f4b-314f73a1@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 25 Jan 2010 15:14:53 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 23913 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 19238 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK42294d3e
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00082062d544-714c68b2
 To: <sip:3034030@5.5.5.45>
 Date: Mon, 25 Jan 2010 15:14:53 GMT
 Call-ID: 001a2f8d-f17f0004-266f4f4b-314f73a1@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK10de21cb0f7f
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455480
 To: <sip:3034030@5.5.5.241>
 Date: Mon, 25 Jan 2010 15:14:53 GMT
 Call-ID: 6229da00-b5d1b56d-b38-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[4] SIP/2.0 486 Busy here

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK10de21cb0f7f
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455480
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000d2fabac84-6928f58c
 Call-ID: 6229da00-b5d1b56d-b38-2d050505@5.5.5.45
 Date: Mon, 25 Jan 2010 15:14:53 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[diagram] Call-ID:[prev][next]

[5] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK10de21cb0f7f

From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455480

To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000d2fabac84-6928f58c

Date: Mon, 25 Jan 2010 15:14:53 GMT

Call-ID: 6229da00-b5d1b56d-b38-2d050505@5.5.5.45

Max-Forwards: 70

CSeq: 101 ACK

Allow-Events: presence

Content-Length: 0

[diagram] Call-ID:[prev][next]

[6] SIP/2.0 486 Busy here

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK42294d3e

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00082062d544-714c68b2

To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455479

Date: Mon, 25 Jan 2010 15:14:53 GMT

Call-ID: 001a2f8d-f17f0004-266f4f4b-314f73a1@5.5.5.240

CSeq: 101 INVITE

Allow-Events: presence

Reason: Q.850;cause=17

Content-Length: 0

[diagram] Call-ID:[prev][next]

[7] ACK sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK42294d3e

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00082062d544-714c68b2

To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455479

Call-ID: 001a2f8d-f17f0004-266f4f4b-314f73a1@5.5.5.240

Date: Mon, 25 Jan 2010 15:14:53 GMT

CSeq: 101 ACK

Content-Length: 0

3. Hold Resume

3.1 Basic Call - Call Hold and Resume (SIP to SIP)

Title: Basic Call - Call Hold and Resume (SIP to SIP)

Description:

A SIP Basic phone calls another SIP Basic phone and presses hold. No MOH is heard. The holder presses resume and two-way speech is restored.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Scenario:

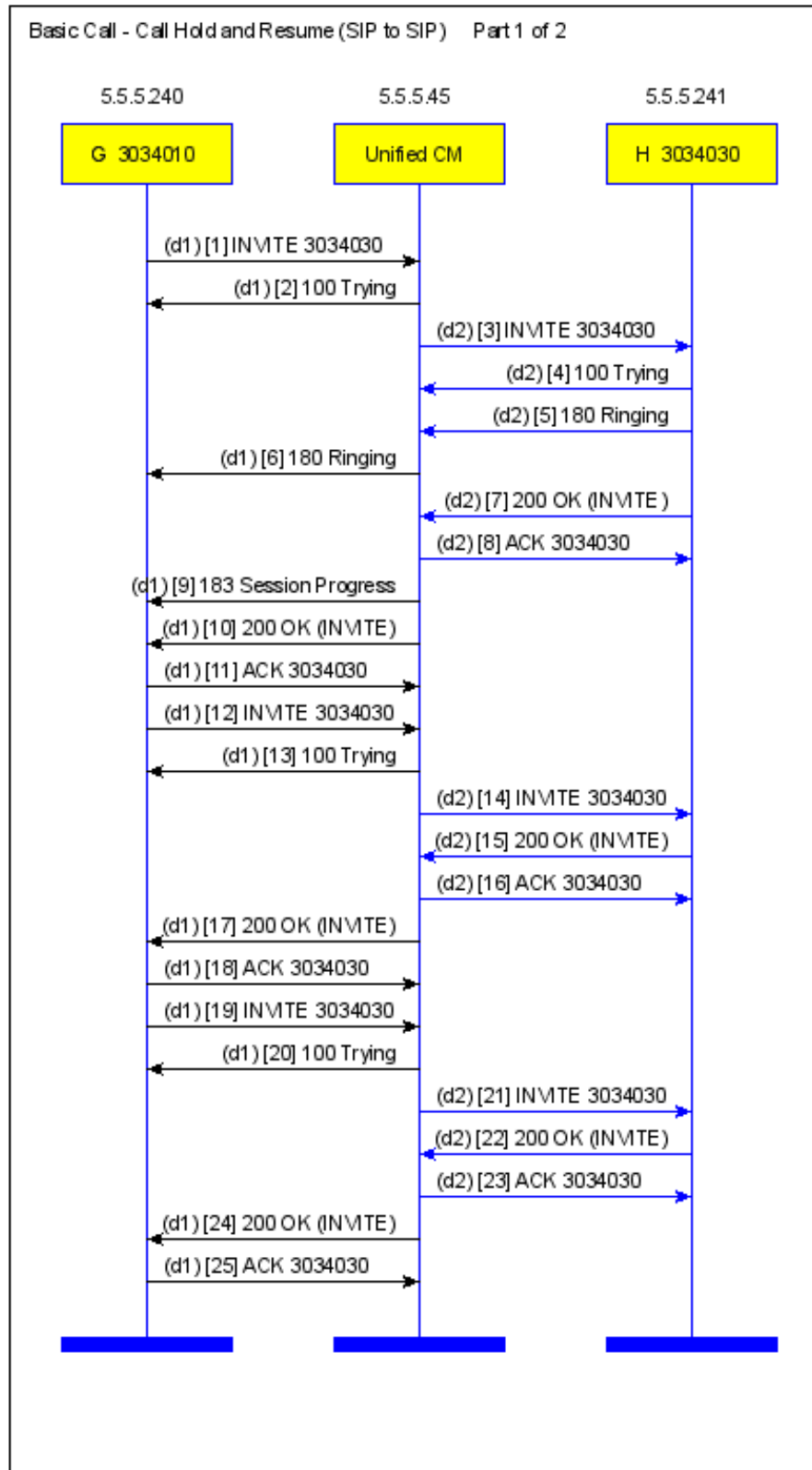
3034010 calls 3034030

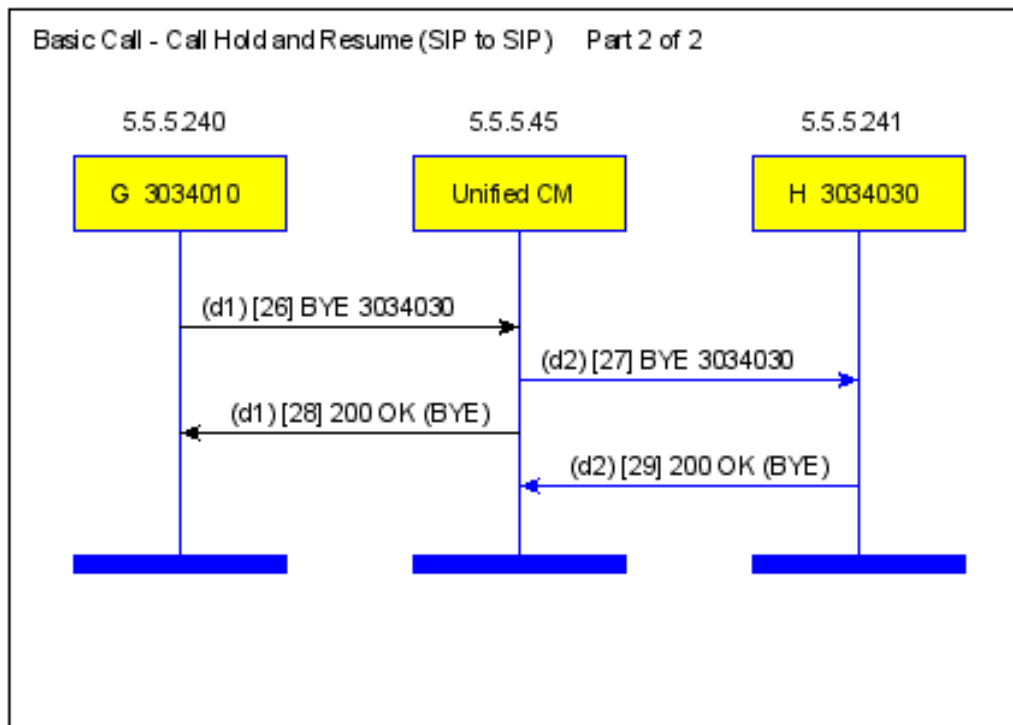
3034030 answers

3034010 presses hold

3034010 presses resume

3034010 goes onhook





[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK11f7f8d3
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 17:15:16 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 1552 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 21422 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK11f7f8d3
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
 To: <sip:3034030@5.5.5.45>
 Date: Wed, 06 Jan 2010 17:15:17 GMT
 Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1eb64a87dddd
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
 To: <sip:3034030@5.5.5.241>
 Date: Wed, 06 Jan 2010 17:15:17 GMT
 Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1eb64a87dddd
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
 To: <sip:3034030@5.5.5.241>
 Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 17:15:16 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1eb64a87dddd
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600083ea0f8e5-54929df4
 Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 17:15:16 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK11f7f8d3
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
 Date: Wed, 06 Jan 2010 17:15:17 GMT
 Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1eb64a87dddd
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600083ea0f8e5-54929df4
 Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 17:15:19 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 28401 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 23038 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1eb7579a132c
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600083ea0f8e5-54929df4
 Date: Wed, 06 Jan 2010 17:15:17 GMT
 Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 21422 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20

a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK11f7f8d3
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
Date: Wed, 06 Jan 2010 17:15:17 GMT
Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 23038 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK11f7f8d3
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
Date: Wed, 06 Jan 2010 17:15:17 GMT
Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 23038 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0fb4c23e
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 17:15:19 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] INVITE sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK21e53178
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 17:15:23 GMT
CSeq: 102 INVITE

User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 1552 1 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 21422 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendonly

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[13] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK21e53178
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
 Date: Wed, 06 Jan 2010 17:15:24 GMT
 Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
 CSeq: 102 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[14] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1eb822989ed7
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600083ea0f8e5-54929df4
 Date: Wed, 06 Jan 2010 17:15:24 GMT
 Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 102 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 291

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 21422 RTP/AVP 0 8 18 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:8 PCMA/8000
 a=ptime:20
 a=rtpmap:18 G729/8000
 a=ptime:20
 a=sendonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1eb822989ed7
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600083ea0f8e5-54929df4
 Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 17:15:23 GMT
 CSeq: 102 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces

Content-Length: 199
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 28401 1 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 23038 RTP/AVP 0 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=recvonly

[diagram] Call-ID: [prev][next]

[16] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1eb978c1d7cc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600083ea0f8e5-54929df4
 Date: Wed, 06 Jan 2010 17:15:24 GMT
 Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 102 ACK
 Allow-Events: presence
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[17] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK21e53178
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
 Date: Wed, 06 Jan 2010 17:15:24 GMT
 Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
 CSeq: 102 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Supported: replaces
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 217

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 23038 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20
 a=recvonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[diagram] Call-ID: [prev][next]

[18] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0a3da825
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
 Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 17:15:24 GMT
 CSeq: 102 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[19] INVITE sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK10fba0c6
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
 Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 17:15:30 GMT
 CSeq: 103 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes

Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 1552 2 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 21422 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[20] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK10fba0c6
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
 Date: Wed, 06 Jan 2010 17:15:31 GMT
 Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
 CSeq: 103 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[21] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1eba114131ef
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600083ea0f8e5-54929df4
 Date: Wed, 06 Jan 2010 17:15:31 GMT
 Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 103 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 279

v=0
 o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 21422 RTP/AVP 0 8 18 101
 a=rtpmap:0 PCMU/8000
 aptime:20
 a=rtpmap:8 PCMA/8000
 aptime:20
 a=rtpmap:18 G729/8000
 aptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[22] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1eba114131ef
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600083ea0f8e5-54929df4
 Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 17:15:30 GMT
 CSeq: 103 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 199
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

```

v=0
o=Cisco-SIPUA 28401 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 23038 RTP/AVP 0 101
c=IN IP4 5.5.5.241
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv

```

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[23] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ebb45d32d3a
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600083ea0f8e5-54929df4
Date: Wed, 06 Jan 2010 17:15:31 GMT
Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 103 ACK
Allow-Events: presence
Content-Length: 0

```

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[24] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK10fba0c6
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
Date: Wed, 06 Jan 2010 17:15:31 GMT
Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
CSeq: 103 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 23038 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

```

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[25] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK47172db4
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 17:15:30 GMT
CSeq: 103 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0

```

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[26] BYE sip:3034030@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK6309c4a2
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 17:15:33 GMT
CSeq: 104 BYE
User-Agent: Cisco-CP7960G/7.5
Content-Length: 0

```

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[27] BYE sip:3034030@5.5.5.241:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ebc702e5b5b
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600083ea0f8e5-54929df4

```

Date: Wed, 06 Jan 2010 17:15:31 GMT
Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
User-Agent: Cisco-CUCM8.0
Max-Forwards: 70
CSeq: 104 BYE
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[28] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK6309c4a2
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060ceee66a-100dc090
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944824
Date: Wed, 06 Jan 2010 17:15:34 GMT
Call-ID: 001a2f8d-f17f0004-0e9b0136-48640f7d@5.5.5.240
CSeq: 104 BYE
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[29] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ebc702e5b5b
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944825
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600083ea0f8e5-54929df4
Call-ID: e278600-b441c525-11cb-2d050505@5.5.5.45
Date: Wed, 06 Jan 2010 17:15:33 GMT
CSeq: 104 BYE
Server: Cisco-CP7960G/7.5
Content-Length: 0

3.2 Basic Call - Call Hold and Resume (SIP to SCCP)

Title: Basic Call - Call Hold and Resume (SIP to SCCP)

Description:

SIP Basic phone calls an SCCP phone and presses hold. No MOH is heard. SIP Basic phone presses resume and two-way speech is restored.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = I, Line = 3031010, IP = 5.5.5.217, Model = SCCP

Scenario:

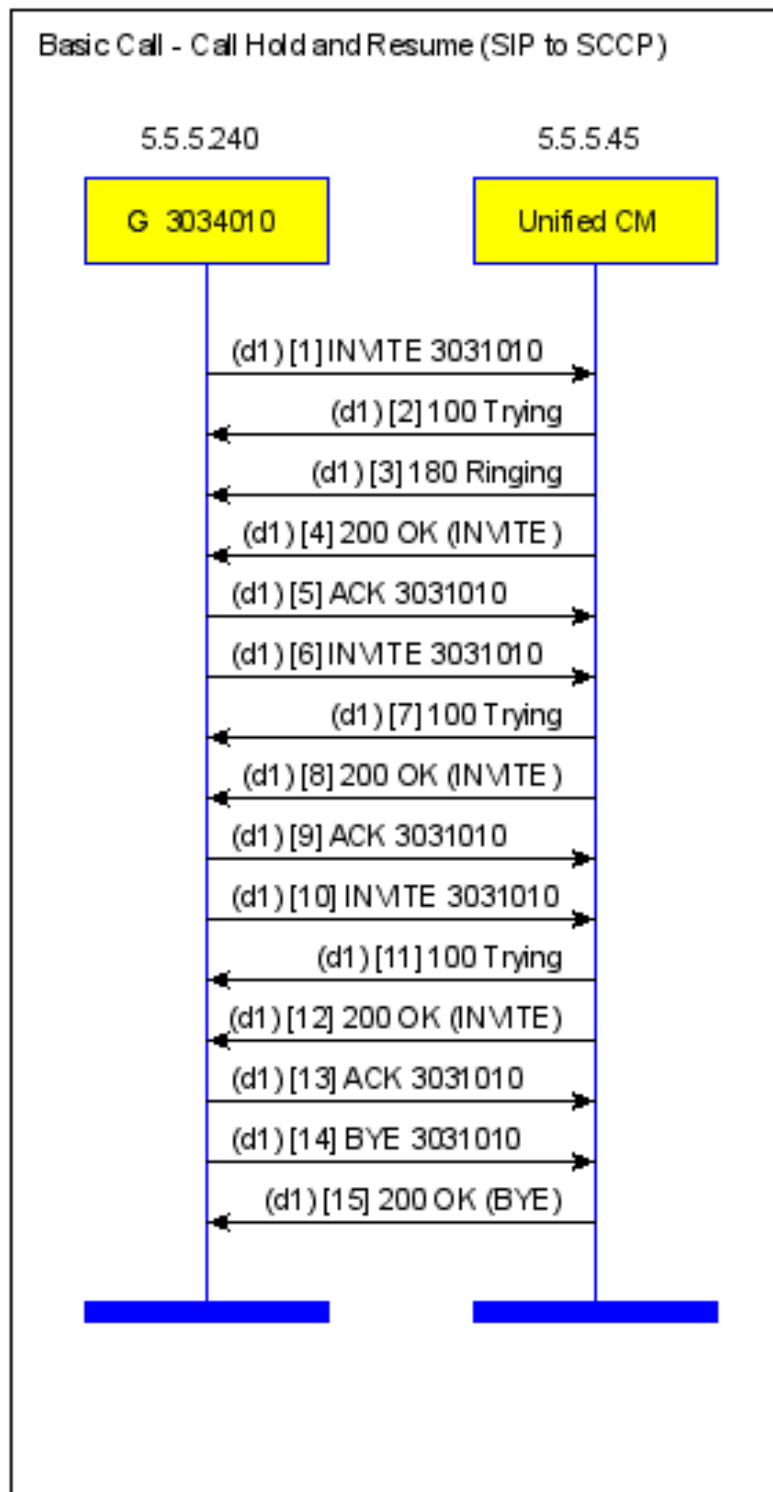
3034010 calls 3031010

3031010 answers

3034010 presses hold

3034010 presses resume

3034010 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3031010@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1b79b97b
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
 To: <sip:3031010@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 17:05:25 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 13418 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 28230 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1b79b97b
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
 To: <sip:3031010@5.5.5.45>
 Date: Wed, 06 Jan 2010 17:05:26 GMT
 Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1b79b97b
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
 To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
 Date: Wed, 06 Jan 2010 17:05:26 GMT
 Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3031010@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1b79b97b
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
 To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
 Date: Wed, 06 Jan 2010 17:05:26 GMT
 Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3031010@5.5.5.45:5060>
 Supported: replaces
 Send-Info: conference
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.217


```
t=0 0
m=audio 18160 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[5] ACK sip:3031010@5.5.5.45:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK35cb5d3c
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 17:05:28 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[6] INVITE sip:3031010@5.5.5.45:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3af80054
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 17:05:34 GMT
CSeq: 102 INVITE
User-Agent: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 13418 1 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 28230 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendonly
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[7] SIP/2.0 100 Trying
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3af80054
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
Date: Wed, 06 Jan 2010 17:05:35 GMT
Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
CSeq: 102 INVITE
Allow-Events: presence
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[8] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3af80054
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
Date: Wed, 06 Jan 2010 17:05:35 GMT
Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
CSeq: 102 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3031010@5.5.5.45:5060>
Supported: replaces
Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 217
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.217
```

```
t=0 0
m=audio 18160 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=recvnly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] ACK sip:3031010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK794ac799
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 17:05:35 GMT
CSeq: 102 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] INVITE sip:3031010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0bcdeb10
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 17:05:42 GMT
CSeq: 103 INVITE
User-Agent: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 13418 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 28230 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] SIP/2.0 100 Trying

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0bcdeb10
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
Date: Wed, 06 Jan 2010 17:05:42 GMT
Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
CSeq: 103 INVITE
Allow-Events: presence
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0bcdeb10
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
Date: Wed, 06 Jan 2010 17:05:42 GMT
Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
CSeq: 103 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3031010@5.5.5.45:5060>
Supported: replaces
Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
```

```
c=IN IP4 5.5.5.217
t=0 0
m=audio 18160 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] ACK sip:3031010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK047c827a
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 17:05:42 GMT
CSeq: 103 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] BYE sip:3031010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5e8e2fc4
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 17:05:45 GMT
CSeq: 104 BYE
User-Agent: Cisco-CP7960G/7.5
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5e8e2fc4
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00054d4efb8d-1c24e680
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944822
Date: Wed, 06 Jan 2010 17:05:45 GMT
Call-ID: 001a2f8d-f17f0004-0409d378-2715bb5c@5.5.5.240
CSeq: 104 BYE
Content-Length: 0
```

3.3 Basic Call - Call Hold and Resume (SCCP to SIP)

Title: Basic Call - Call Hold and Resume (SCCP to SIP)

Description:

SIP Basic phone calls an SCCP phone and SCCP presses hold. MOH is heard at SIP phone. SCCP presses resume and two-way speech is restored.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = I, Line = 3031010, IP = 5.5.5.217, Model = SCCP

Scenario:

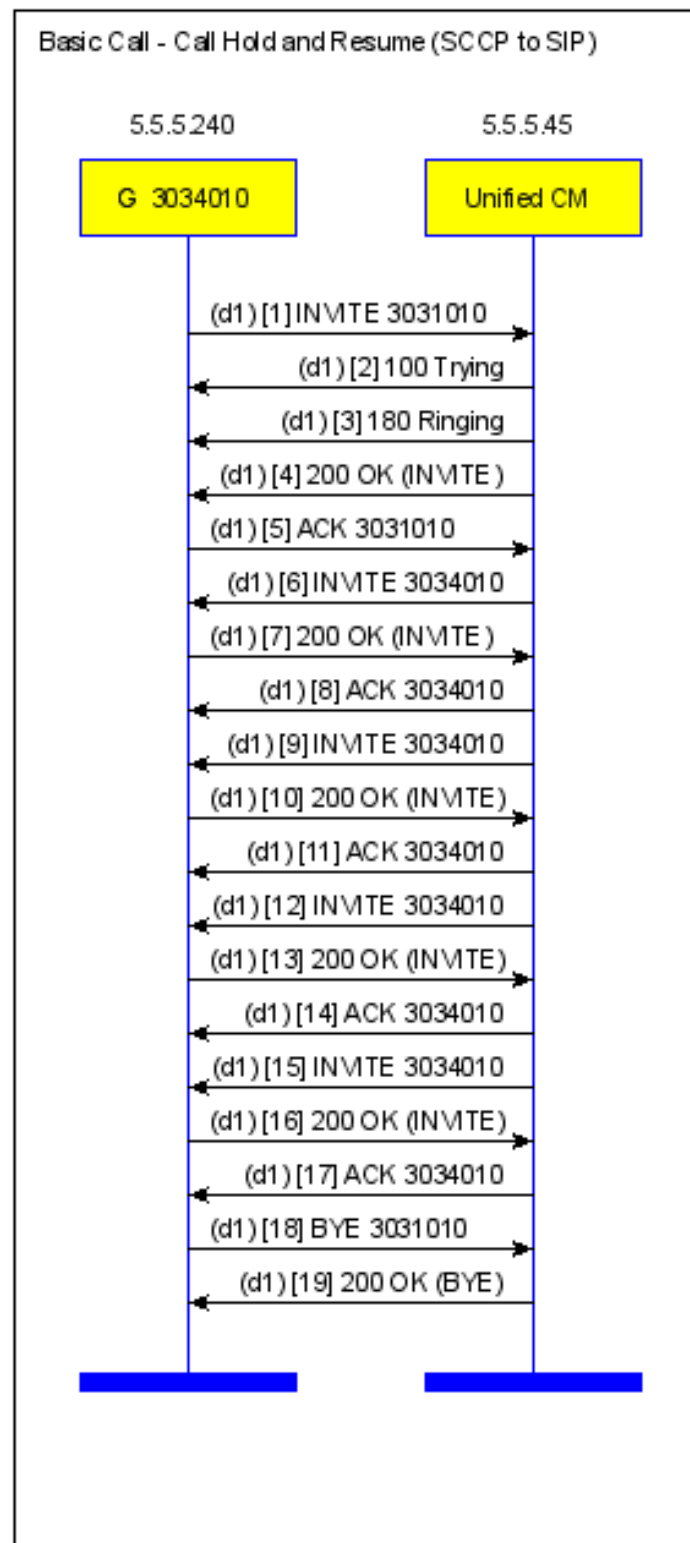
3034010 calls 3031010

3031010 answers

3031010 presses hold

3031010 presses resume

3034010 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3031010@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK785c0ec0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
 To: <sip:3031010@5.5.5.45>
 Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:07:40 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 24520 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 17760 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK785c0ec0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
 To: <sip:3031010@5.5.5.45>
 Date: Wed, 20 Jan 2010 00:07:40 GMT
 Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK785c0ec0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
 To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
 Date: Wed, 20 Jan 2010 00:07:40 GMT
 Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3031010@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK785c0ec0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
 To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
 Date: Wed, 20 Jan 2010 00:07:40 GMT
 Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3031010@5.5.5.45:5060>
 Supported: replaces
 Send-Info: conference
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.217

```
t=0 0
m=audio 25598 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[5] ACK sip:3031010@5.5.5.45:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK25938d5c
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
Max-Forwards: 70
Date: Wed, 20 Jan 2010 00:07:43 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[6] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8564454fb83
From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
Date: Wed, 20 Jan 2010 00:07:45 GMT
Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 101 INVITE
Max-Forwards: 70
Contact: <sip:3031010@5.5.5.45:5060>
Expires: 180
Allow-Events: presence
Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 215
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 0.0.0.0
t=0 0
m=audio 25598 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=inactive
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[7] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8564454fb83
From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
Date: Wed, 20 Jan 2010 00:07:46 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 199
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 24520 1 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 17760 RTP/AVP 0 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=inactive
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[8] ACK sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK85756b8bd09
 From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
 Date: Wed, 20 Jan 2010 00:07:45 GMT
 Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK858255ca1d5
 From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
 Date: Wed, 20 Jan 2010 00:07:45 GMT
 Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 102 INVITE
 Max-Forwards: 70
 Contact: <sip:3031010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK858255ca1d5
 From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
 Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
 Date: Wed, 20 Jan 2010 00:07:46 GMT
 CSeq: 102 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 24520 1 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 17760 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8591409efa8
 From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
 Date: Wed, 20 Jan 2010 00:07:45 GMT
 Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
 Max-Forwards: 70
 CSeq: 102 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 159

v=0
 o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.45
 t=0 0
 m=audio 4000 RTP/AVP 0


```
a=rtpmap:0 PCMU/8000
a=ptime:20
a=sendonly
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

```
[12] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK85a291b0c41
From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
Date: Wed, 20 Jan 2010 00:07:49 GMT
Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 103 INVITE
Max-Forwards: 70
Contact: <sip:3031010@5.5.5.45:5060>
Expires: 180
Allow-Events: presence
Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 158
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 0.0.0.0
t=0 0
m=audio 4000 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
a=inactive
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

```
[13] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK85a291b0c41
From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
Date: Wed, 20 Jan 2010 00:07:50 GMT
CSeq: 103 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 143
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 24520 3 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 17760 RTP/AVP 0
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=inactive
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

```
[14] ACK sip:3034010@5.5.5.240:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK85b440764c4
From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
Date: Wed, 20 Jan 2010 00:07:49 GMT
Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
Max-Forwards: 70
CSeq: 103 ACK
Allow-Events: presence
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

```
[15] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK85c2d53893a
From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
Date: Wed, 20 Jan 2010 00:07:50 GMT
Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
Supported: timer,resource-priority,replaces
```

Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 104 INVITE
 Max-Forwards: 70
 Contact: <sip:3031010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[16] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK85c2d53893a
 From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
 Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
 Date: Wed, 20 Jan 2010 00:07:51 GMT
 CSeq: 104 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 24520 3 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 17760 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[17] ACK sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK85d51528b4d
 From: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
 Date: Wed, 20 Jan 2010 00:07:50 GMT
 Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
 Max-Forwards: 70
 CSeq: 104 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 5 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.217
 t=0 0
 m=audio 26384 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[18] BYE sip:3031010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0ea4fa4d
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
 To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
 Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:07:54 GMT
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[19] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0ea4fa4d

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000e15aea7a7-6dc918fc
To: <sip:3031010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454933
Date: Wed, 20 Jan 2010 00:07:54 GMT
Call-ID: 001a2f8d-f17f0005-3aaefbcc-3ab7d862@5.5.5.240
CSeq: 102 BYE
Content-Length: 0

4. Conference

4.1 Three Way Conference Calling (SIP Basic Phones)

Title: Three Way Conference Calling (SIP Basic Phones)

Description:

G calls H and then G conferences in L.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Phone = L, Line = 3034040, IP = 5.5.5.242, Model = SIP Basic

Scenario:

3034010 calls 3034030

3034030 is ringing

3034030 answers

3034010 presses Confrn softkey

3034010 dials 3034040

3034040 is ringing

3034040 answers

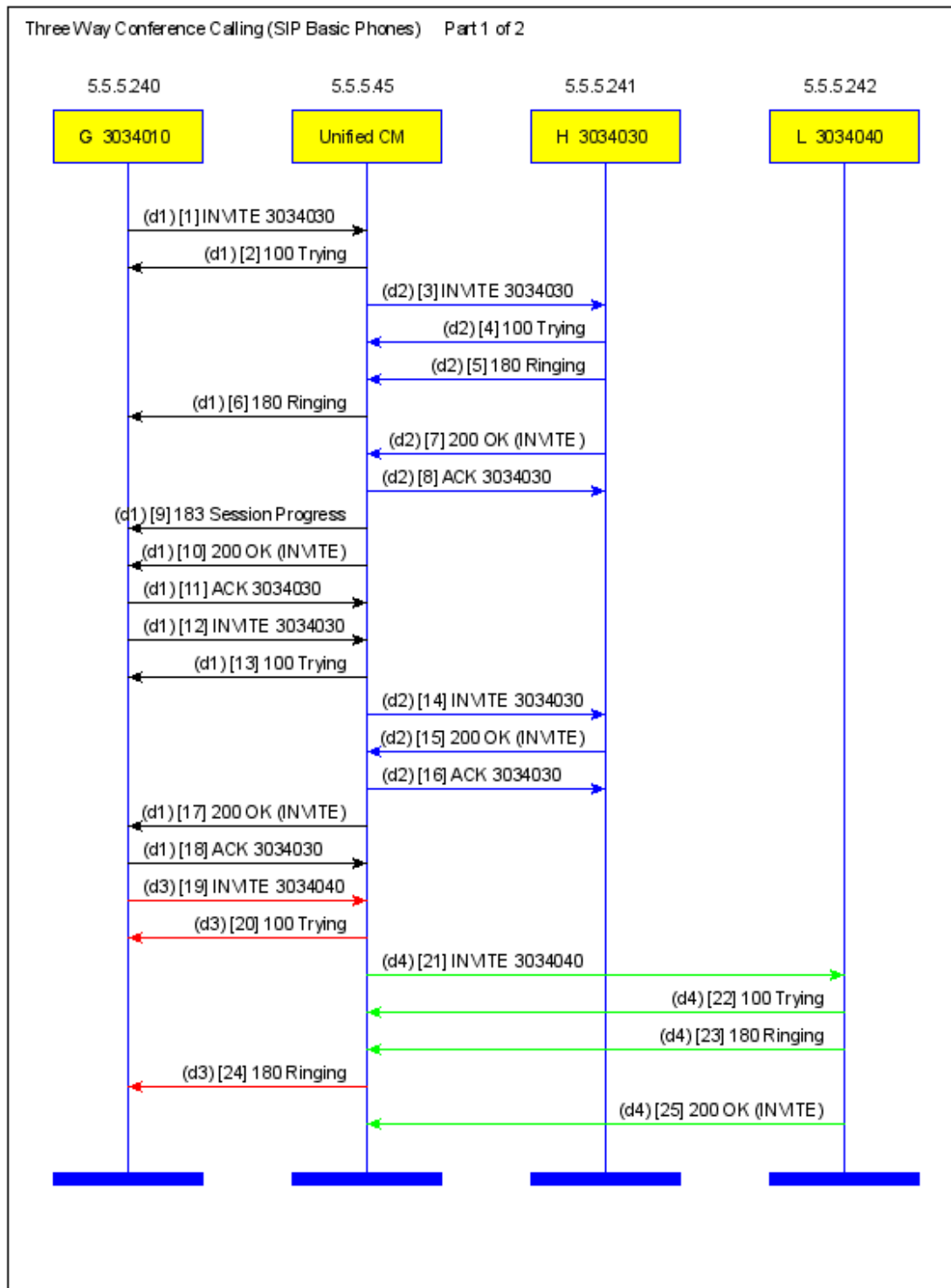
3034010 presses Join softkey to complete the conference

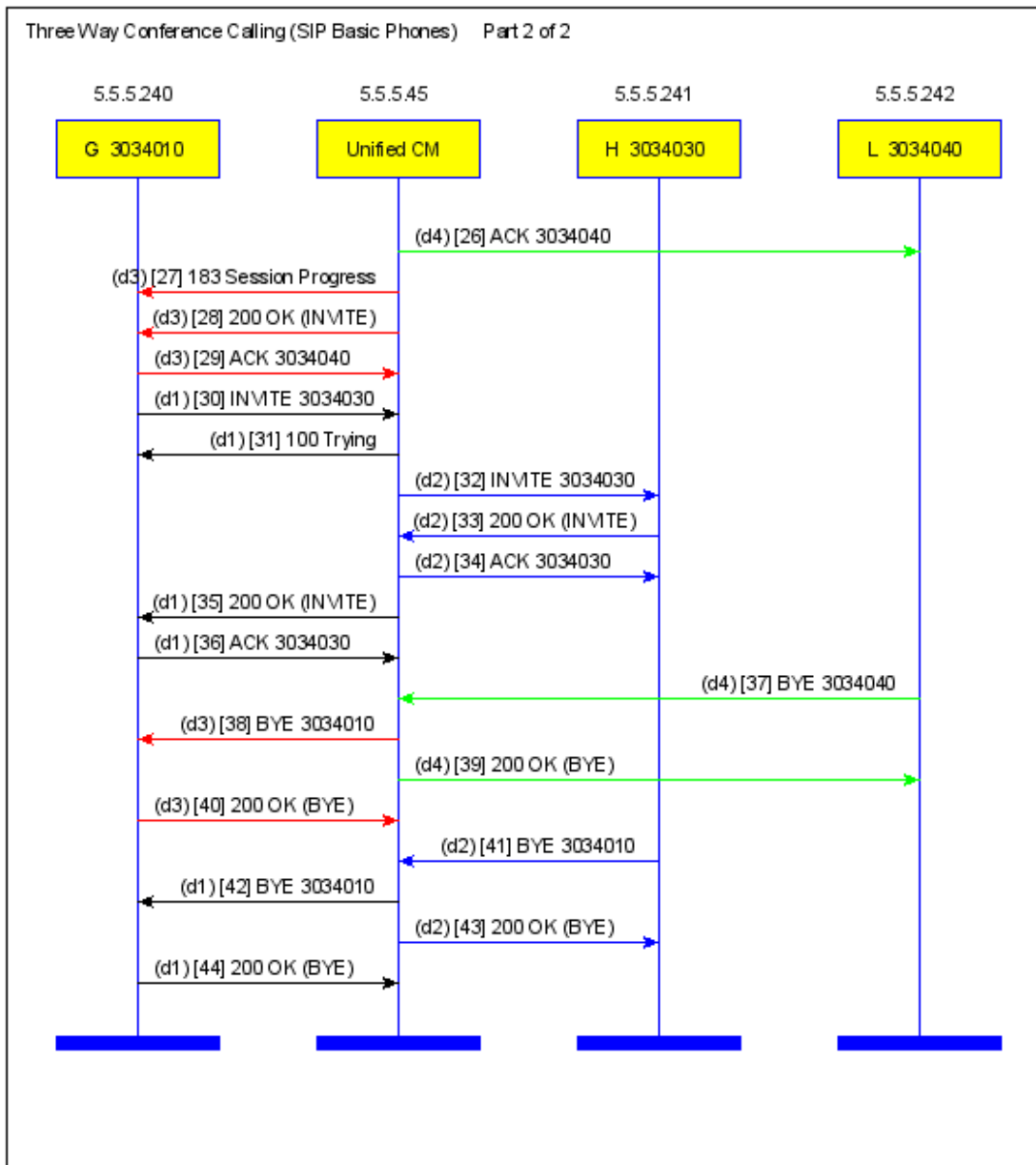
3034010, 3034030, and 3034040 are in three way conference

3034040 goes onhook

3034030 goes onhook

3034010 goes onhook





[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1a6b0ff1
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
 Max-Forwards: 70
 Date: Thu, 07 Jan 2010 01:49:35 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 26184 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 21214 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1a6b0ff1
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
 To: <sip:3034030@5.5.5.45>
 Date: Thu, 07 Jan 2010 01:49:36 GMT
 Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c27b05fbcc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
 To: <sip:3034030@5.5.5.241>
 Date: Thu, 07 Jan 2010 01:49:36 GMT
 Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c27b05fbcc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
 To: <sip:3034030@5.5.5.241>
 Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
 Date: Thu, 07 Jan 2010 01:49:34 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c27b05fbcc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600073595d61e-33319ea0
 Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
 Date: Thu, 07 Jan 2010 01:49:34 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1a6b0ff1
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
 Date: Thu, 07 Jan 2010 01:49:36 GMT
 Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c27b05fbcc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600073595d61e-33319ea0
 Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
 Date: Thu, 07 Jan 2010 01:49:35 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 11584 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 16690 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c3652968ad
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600073595d61e-33319ea0
 Date: Thu, 07 Jan 2010 01:49:36 GMT
 Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 21214 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20


```
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1a6b0ff1
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
Date: Thu, 07 Jan 2010 01:49:36 GMT
Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 16690 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1a6b0ff1
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
Date: Thu, 07 Jan 2010 01:49:36 GMT
Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 16690 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK43e032e2
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
Max-Forwards: 70
Date: Thu, 07 Jan 2010 01:49:37 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] INVITE sip:3034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK57e05b38
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
Max-Forwards: 70
Date: Thu, 07 Jan 2010 01:49:40 GMT
CSeq: 102 INVITE
```

User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 223
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 26184 1 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 21214 RTP/AVP 0 8 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendonly

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[13] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK57e05b38
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
 Date: Thu, 07 Jan 2010 01:49:41 GMT
 Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
 CSeq: 102 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[14] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c45585ed69
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600073595d61e-33319ea0
 Date: Thu, 07 Jan 2010 01:49:41 GMT
 Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 102 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 253

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 21214 RTP/AVP 0 8 101
 a=rtpmap:0 PCMU/8000
 aptime:20
 a=rtpmap:8 PCMA/8000
 aptime:20
 a=sendonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c45585ed69
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600073595d61e-33319ea0
 Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
 Date: Thu, 07 Jan 2010 01:49:39 GMT
 CSeq: 102 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 199
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

```
v=0
o=Cisco-SIPUA 11584 1 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 16690 RTP/AVP 0 101
c=IN IP4 5.5.5.241
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=recvonly
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[16] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c547bf08bb
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600073595d61e-33319ea0
Date: Thu, 07 Jan 2010 01:49:41 GMT
Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 102 ACK
Allow-Events: presence
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[17] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK57e05b38
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
Date: Thu, 07 Jan 2010 01:49:41 GMT
Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
CSeq: 102 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 217
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 16690 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
aptime:20
a=recvonly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[18] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1b57462e
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
Max-Forwards: 70
Date: Thu, 07 Jan 2010 01:49:41 GMT
CSeq: 102 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[19] INVITE sip:3034040@5.5.5.45 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7a3b4e11
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00076662f0f9-7e16f9a1
To: <sip:3034040@5.5.5.45>
Call-ID: 001a2f8d-f17f0007-663be2d7-0cfb221c@5.5.5.240
Max-Forwards: 70
Date: Thu, 07 Jan 2010 01:49:46 GMT
CSeq: 101 INVITE
User-Agent: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Expires: 180
Accept: application/sdp
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
```

Supported: replaces
 Content-Length: 223
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 14358 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 21218 RTP/AVP 0 8 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[20] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7a3b4e11
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00076662f0f9-7e16f9a1
 To: <sip:3034040@5.5.5.45>
 Date: Thu, 07 Jan 2010 01:49:46 GMT
 Call-ID: 001a2f8d-f17f0007-663be2d7-0cfb221c@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[21] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c658bd4316
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945179
 To: <sip:3034040@5.5.5.242>
 Date: Thu, 07 Jan 2010 01:49:46 GMT
 Call-ID: ed831e80-b4513dba-1358-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034040@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[22] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c658bd4316
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945179
 To: <sip:3034040@5.5.5.242>
 Call-ID: ed831e80-b4513dba-1358-2d050505@5.5.5.45
 Date: Thu, 07 Jan 2010 01:49:45 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[23] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c658bd4316
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945179
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00062bf8bb6b-463c97de
 Call-ID: ed831e80-b4513dba-1358-2d050505@5.5.5.45
 Date: Thu, 07 Jan 2010 01:49:45 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[24] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7a3b4e11
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00076662f0f9-7e16f9a1
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945178
 Date: Thu, 07 Jan 2010 01:49:46 GMT
 Call-ID: 001a2f8d-f17f0007-663be2d7-0cfb221c@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034040@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[25] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c658bd4316
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945179
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00062bf8bb6b-463c97de
 Call-ID: ed831e80-b4513dba-1358-2d050505@5.5.5.45
 Date: Thu, 07 Jan 2010 01:49:46 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 6144 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 30716 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.242
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[26] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c77d202792
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945179
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00062bf8bb6b-463c97de
 Date: Thu, 07 Jan 2010 01:49:46 GMT
 Call-ID: ed831e80-b4513dba-1358-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 21218 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[27] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7a3b4e11
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00076662f0f9-7e16f9a1
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945178
 Date: Thu, 07 Jan 2010 01:49:46 GMT
 Call-ID: 001a2f8d-f17f0007-663be2d7-0cfb221c@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034040@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off

Content-Type: application/sdp
Content-Length: 205

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 30716 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[28] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7a3b4e11
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00076662f0f9-7e16f9a1
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945178
Date: Thu, 07 Jan 2010 01:49:46 GMT
Call-ID: 001a2f8d-f17f0007-663be2d7-0cfb221c@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034040@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 30716 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[29] ACK sip:3034040@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK22e1b80a
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00076662f0f9-7e16f9a1
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945178
Call-ID: 001a2f8d-f17f0007-663be2d7-0cfb221c@5.5.5.240
Max-Forwards: 70
Date: Thu, 07 Jan 2010 01:49:47 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[30] INVITE sip:3034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5b6f8118
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006666afa464-061bba7f
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
Max-Forwards: 70
Date: Thu, 07 Jan 2010 01:49:49 GMT
CSeq: 103 INVITE
User-Agent: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 223
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 26184 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 21214 RTP/AVP 0 8 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:101 telephone-event/8000
```


a=fmtp:101 0-15
a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[31] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5b6f8118
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
Date: Thu, 07 Jan 2010 01:49:50 GMT
Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
CSeq: 103 INVITE
Allow-Events: presence
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[32] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c85c827d5a
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600073595d61e-33319ea0
Date: Thu, 07 Jan 2010 01:49:50 GMT
Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 103 INVITE
Max-Forwards: 70
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Allow-Events: presence
Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 241

v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.240
t=0 0
m=audio 21214 RTP/AVP 0 8 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:8 PCMA/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[33] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c85c827d5a
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600073595d61e-33319ea0
Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
Date: Thu, 07 Jan 2010 01:49:48 GMT
CSeq: 103 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034030@5.5.5.241:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 199
Content-Type: application/sdp
Content-Disposition: session;handling=optional

v=0
o=Cisco-SIPUA 11584 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 16690 RTP/AVP 0 101
c=IN IP4 5.5.5.241
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[34] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22c9720057b6
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600073595d61e-33319ea0

Date: Thu, 07 Jan 2010 01:49:50 GMT
 Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 103 ACK
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[35] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5b6f8118
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
 Date: Thu, 07 Jan 2010 01:49:50 GMT
 Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
 CSeq: 103 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Supported: replaces
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 16690 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[36] ACK sip:3034030@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1df9c620
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
 Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
 Max-Forwards: 70
 Date: Thu, 07 Jan 2010 01:49:50 GMT
 CSeq: 103 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[37] BYE sip:3034040@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK4d899cd3
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00062bf8bb6b-463c97de
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945179
 Call-ID: ed831e80-b4513dba-1358-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Thu, 07 Jan 2010 01:49:59 GMT
 CSeq: 101 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[38] BYE sip:3034010@5.5.5.240:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22ca2d5291a8
 From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945178
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00076662f0f9-7e16f9a1
 Date: Thu, 07 Jan 2010 01:49:48 GMT
 Call-ID: 001a2f8d-f17f0007-663be2d7-0cfb221c@5.5.5.240
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 101 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[39] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK4d899cd3
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00062bf8bb6b-463c97de
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945179
 Date: Thu, 07 Jan 2010 01:50:00 GMT
 Call-ID: ed831e80-b4513dba-1358-2d050505@5.5.5.45
 CSeq: 101 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[40] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22ca2d5291a8
 From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945178
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00076662f0f9-7e16f9a1
 Call-ID: 001a2f8d-f17f0007-663be2d7-0cfb221c@5.5.5.240
 Date: Thu, 07 Jan 2010 01:50:00 GMT
 CSeq: 101 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[41] BYE sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK30f315a5
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600073595d61e-33319ea0
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
 Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Thu, 07 Jan 2010 01:50:03 GMT
 CSeq: 101 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[42] BYE sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22cb7c3121a5
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
 Date: Thu, 07 Jan 2010 01:49:50 GMT
 Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 101 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[43] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK30f315a5
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600073595d61e-33319ea0
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945177
 Date: Thu, 07 Jan 2010 01:50:05 GMT
 Call-ID: e78d3d80-b4513db0-1357-2d050505@5.5.5.45
 CSeq: 101 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[44] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK22cb7c3121a5
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945176
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000666afa464-061bba7f
 Call-ID: 001a2f8d-f17f0006-1b580068-74985b74@5.5.5.240
 Date: Thu, 07 Jan 2010 01:50:04 GMT
 CSeq: 101 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

5. Transfer

5.1 Transfer Attended (All SIP Basic phones)

Title: Transfer Attended (All SIP Basic phones)

Description:

G calls H and then performs a consultative transfer to L.

"Transfer Attended" is sometimes referred to as "Consultative Transfer".

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Phone = L, Line = 3034040, IP = 5.5.5.242, Model = SIP Basic

Scenario:

3034010 calls 3034030

3034030 is ringing

3034030 answers

3034010 presses Transfer softkey

3034010 dials 3034040

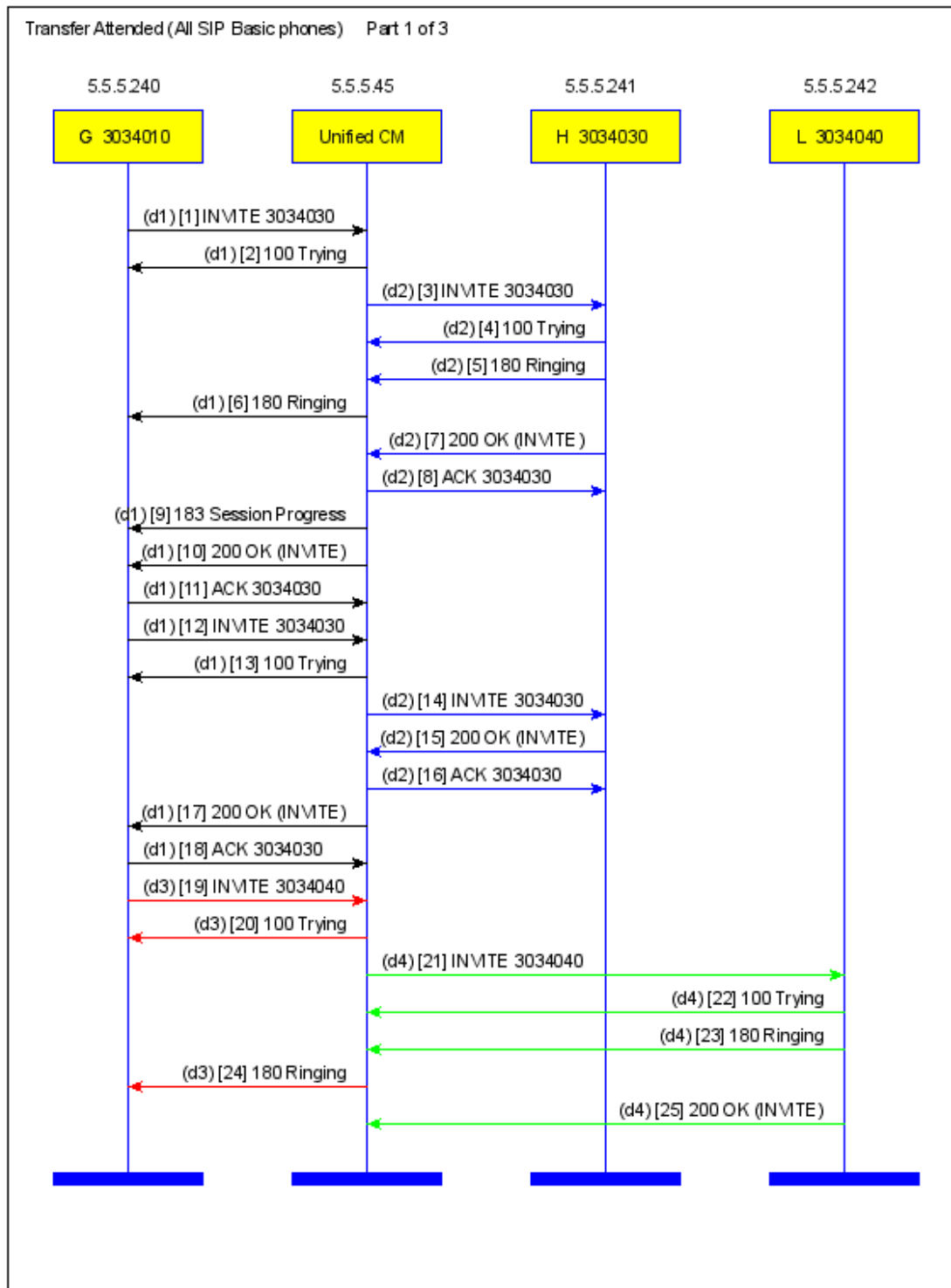
3034040 is ringing

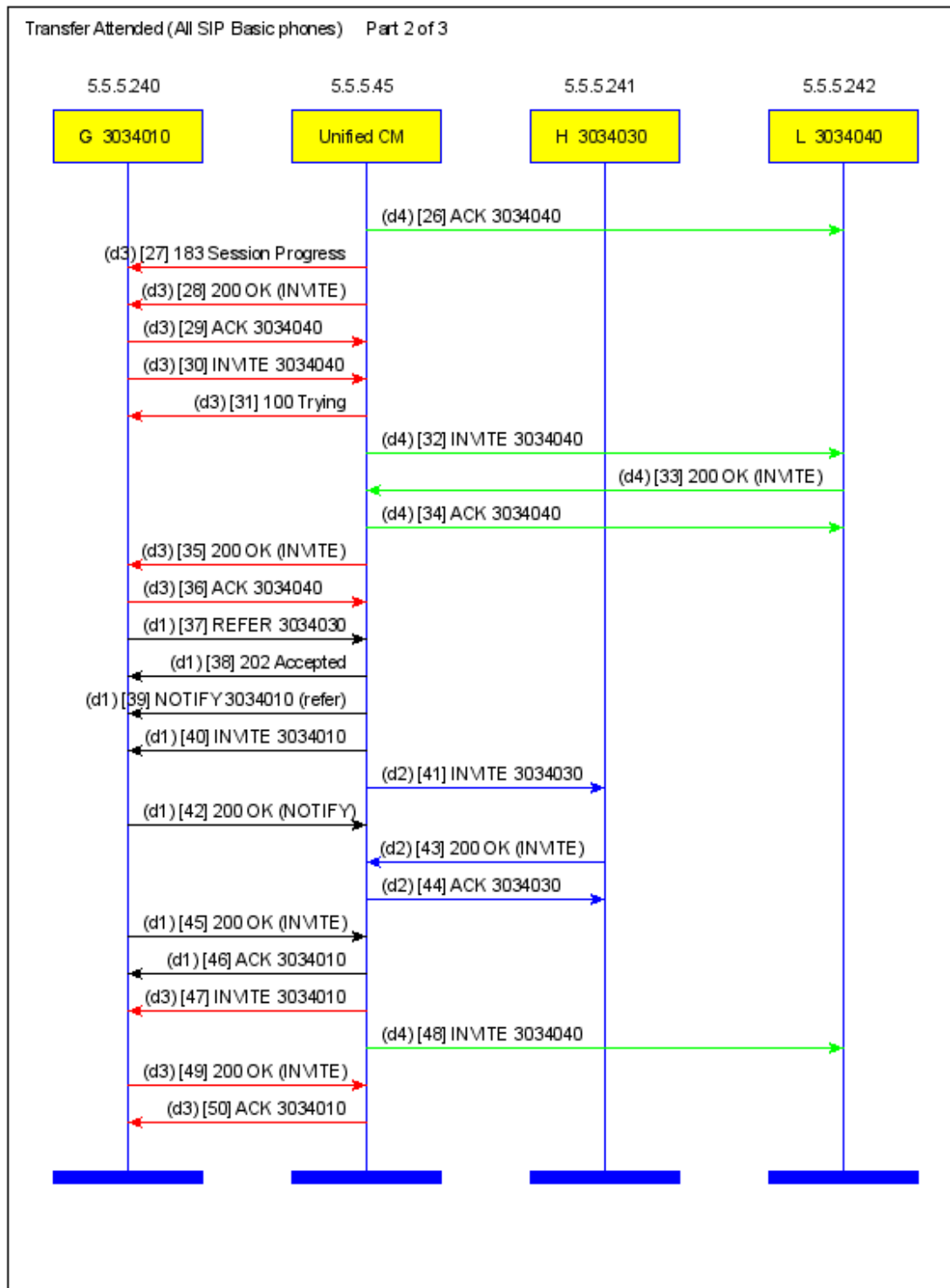
3034040 answers

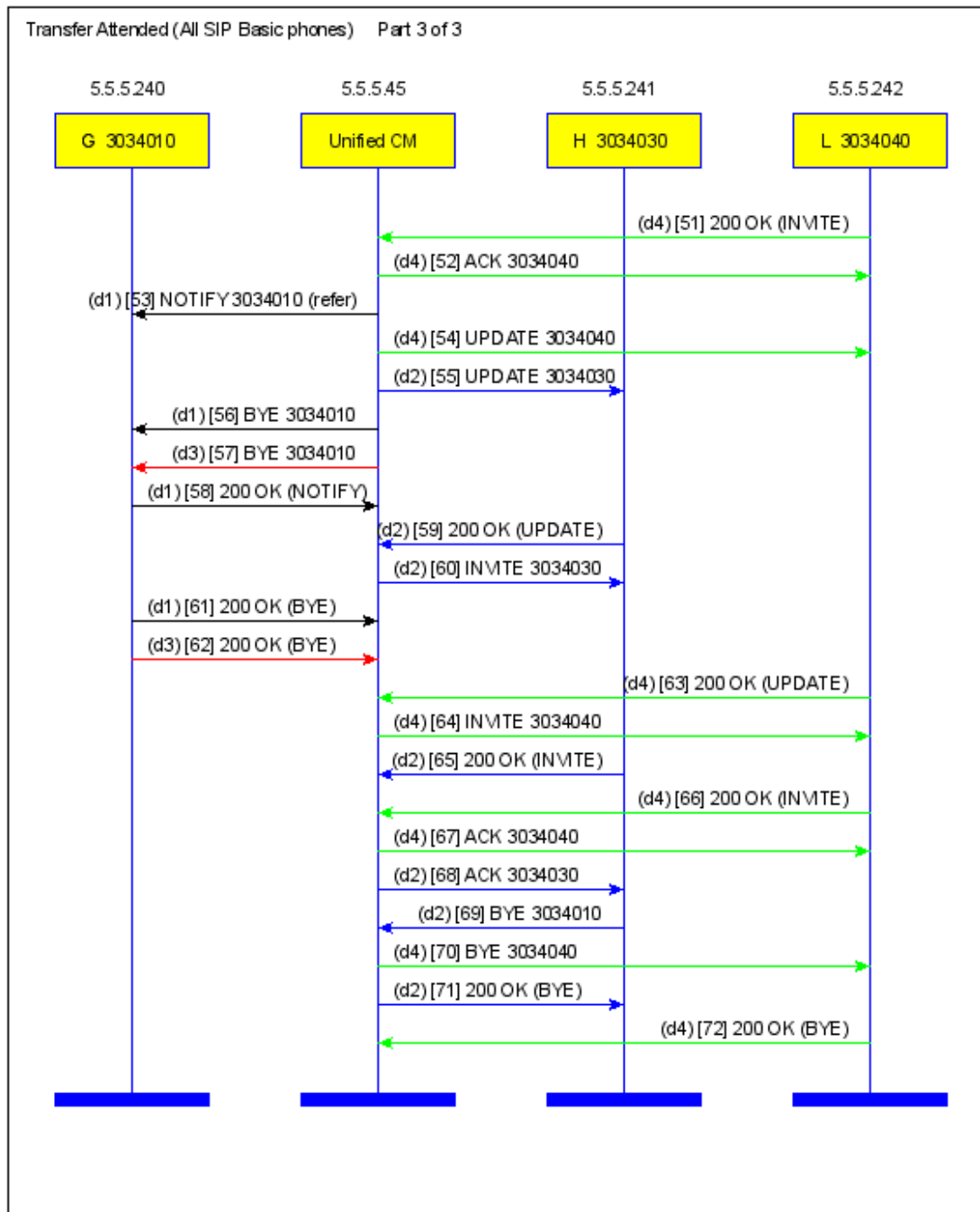
3034010 presses Transfer softkey to complete the transfer

3034030 and 3034040 are connected

3034030 goes onhook







[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1f3395ec
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:07:59 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 9256 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 31746 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1f3395ec
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 To: <sip:3034030@5.5.5.45>
 Date: Wed, 06 Jan 2010 16:08:00 GMT
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4d7f7237bc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>
 Date: Wed, 06 Jan 2010 16:08:00 GMT
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4d7f7237bc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:07:59 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4d7f7237bc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:07:59 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1f3395ec
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
 Date: Wed, 06 Jan 2010 16:08:00 GMT
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4d7f7237bc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:08:00 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4694 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 25340 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4e46b54de2
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Date: Wed, 06 Jan 2010 16:08:00 GMT
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 31746 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20

```
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1f3395ec
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
Date: Wed, 06 Jan 2010 16:08:00 GMT
Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 25340 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1f3395ec
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
Date: Wed, 06 Jan 2010 16:08:00 GMT
Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 25340 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK23d61948
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 16:08:02 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] INVITE sip:3034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7633e3a2
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 16:08:07 GMT
CSeq: 102 INVITE
```


User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 9256 1 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 31746 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendonly

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7633e3a2
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
 Date: Wed, 06 Jan 2010 16:08:08 GMT
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 CSeq: 102 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4f1f2aac97
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Date: Wed, 06 Jan 2010 16:08:08 GMT
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 102 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 291

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 31746 RTP/AVP 0 8 18 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:8 PCMA/8000
 a=ptime:20
 a=rtpmap:18 G729/8000
 a=ptime:20
 a=sendonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e4f1f2aac97
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:08:07 GMT
 CSeq: 102 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces

Content-Length: 198
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4694 1 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 25340 RTP/AVP 0 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=recvonly

[diagram] Call-ID: [prev][next]

[16] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5035574840
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Date: Wed, 06 Jan 2010 16:08:08 GMT
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 102 ACK
 Allow-Events: presence
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[17] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7633e3a2
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
 Date: Wed, 06 Jan 2010 16:08:08 GMT
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 CSeq: 102 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Supported: replaces
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 217

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 25340 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=recvonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[diagram] Call-ID: [prev][next]

[18] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2c918cd8
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:08:08 GMT
 CSeq: 102 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[19] INVITE sip:3034040@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3e415858
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:08:16 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180

```
Accept: application/sdp
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 28172 0 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 31750 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[20] SIP/2.0 100 Trying

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3e415858
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
To: <sip:3034040@5.5.5.45>
Date: Wed, 06 Jan 2010 16:08:17 GMT
Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
CSeq: 101 INVITE
Allow-Events: presence
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[21] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e514ba3683b
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
To: <sip:3034040@5.5.5.242>
Date: Wed, 06 Jan 2010 16:08:17 GMT
Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 101 INVITE
Expires: 180
Allow-Events: presence
Send-Info: conference
Alert-Info: <file://Bellcore-dr1/>
Contact: <sip:3034040@5.5.5.45:5060>
Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
Max-Forwards: 69
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[22] SIP/2.0 100 Trying

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e514ba3683b
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
To: <sip:3034040@5.5.5.242>
Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
Date: Wed, 06 Jan 2010 16:08:16 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[23] SIP/2.0 180 Ringing

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e514ba3683b
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
Date: Wed, 06 Jan 2010 16:08:16 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
```

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[24] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3e415858
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
 Date: Wed, 06 Jan 2010 16:08:17 GMT
 Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034040@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[25] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e514ba3683b
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
 Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:08:18 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 246
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 93 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 22696 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.242
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[26] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e521ee9faae
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
 Date: Wed, 06 Jan 2010 16:08:17 GMT
 Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 31750 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[27] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3e415858
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
 Date: Wed, 06 Jan 2010 16:08:17 GMT
 Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

```

Allow-Events: presence
Contact: <sip:3034040@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 22696 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[28] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3e415858
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
Date: Wed, 06 Jan 2010 16:08:17 GMT
Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034040@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 22696 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[29] ACK sip:3034040@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK73b60092
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 16:08:19 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[30] INVITE sip:3034040@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK614f0f55
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 16:08:21 GMT
CSeq: 102 INVITE
User-Agent: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional

```

```

v=0
o=Cisco-SIPUA 28172 1 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 31750 RTP/AVP 0 8 18 101

```

```
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendonly
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[31] SIP/2.0 100 Trying

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK614f0f55
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
Date: Wed, 06 Jan 2010 16:08:22 GMT
Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
CSeq: 102 INVITE
Allow-Events: presence
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[32] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5348c7015e
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
Date: Wed, 06 Jan 2010 16:08:22 GMT
Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 102 INVITE
Max-Forwards: 70
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Allow-Events: presence
Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 291
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.240
t=0 0
m=audio 31750 RTP/AVP 0 8 18 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:8 PCMA/8000
a=ptime:20
a=rtpmap:18 G729/8000
a=ptime:20
a=sendonly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[33] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5348c7015e
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
Date: Wed, 06 Jan 2010 16:08:20 GMT
CSeq: 102 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 196
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 93 1 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 22696 RTP/AVP 0 101
c=IN IP4 5.5.5.242
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
```


a=fmtp:101 0-15
a=recvonly

[diagram] Call-ID: [prev][next]

[34] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e54d2ce4c
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
Date: Wed, 06 Jan 2010 16:08:22 GMT
Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 102 ACK
Allow-Events: presence
Content-Length: 0

[diagram] Call-ID: [prev][next]

[35] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK614f0f55
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
To: <sip:3034040@5.5.5.242>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
Date: Wed, 06 Jan 2010 16:08:22 GMT
Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
CSeq: 102 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034040@5.5.5.45:5060>
Supported: replaces
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 217

v=0
o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 22696 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=recvonly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[diagram] Call-ID: [prev][next]

[36] ACK sip:3034040@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK631ef25b
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 16:08:21 GMT
CSeq: 102 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0

[diagram] Call-ID: [prev][next]

[37] REFER sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK16a6abcc
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 16:08:21 GMT
CSeq: 103 REFER
User-Agent: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
Refer-To: <sip:3034040@5.5.5.45?Replaces=001a2f8d-f17f0005-57673350-70ffe2fd%405.5.5.240%3Bto-tag%3D71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805%3Bfrom-tag%3D001a2f8df17f00071ae6820e-46ca6681>
Referred-By: "3034010" <sip:3034010@5.5.5.45>

[diagram] Call-ID: [prev][next]

[38] SIP/2.0 202 Accepted

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK16a6abcc
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
Date: Wed, 06 Jan 2010 16:08:22 GMT
Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240

CSeq: 103 REFER
 Content-Length: 0
 Contact: <sip:3034030@5.5.5.45:5060>

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[39] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e555da0741b
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 CSeq: 101 NOTIFY
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:08:22 GMT
 User-Agent: Cisco-CUCM8.0
 Event: refer
 Subscription-State: active;expires=60
 Contact: <sip:3034030@5.5.5.45:5060>
 Content-Type: message/sipfrag;version=2.0
 Content-Length: 20

SIP/2.0 100 Trying

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[40] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e56279011db
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 Date: Wed, 06 Jan 2010 16:08:22 GMT
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 102 INVITE
 Max-Forwards: 70
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 215

v=0
 o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 0.0.0.0
 t=0 0
 m=audio 25340 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=inactive
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[41] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e574d05aa96
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Date: Wed, 06 Jan 2010 16:08:22 GMT
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 103 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 289

v=0
 o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 0.0.0.0
 t=0 0
 m=audio 31746 RTP/AVP 0 8 18 101


```

a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:8 PCMA/8000
a=ptime:20
a=rtpmap:18 G729/8000
a=ptime:20
a=inactive
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[42] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e555da0741b
From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
Date: Wed, 06 Jan 2010 16:08:22 GMT
CSeq: 101 NOTIFY
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[43] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e574d05aa96
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
Date: Wed, 06 Jan 2010 16:08:21 GMT
CSeq: 103 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034030@5.5.5.241:5060>
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 198
Content-Type: application/sdp
Content-Disposition: session;handling=optional

```

```

v=0
o=Cisco-SIPUA 4694 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 25340 RTP/AVP 0 101
c=IN IP4 5.5.5.241
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=inactive

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[44] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5870f80543
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
Date: Wed, 06 Jan 2010 16:08:22 GMT
Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 103 ACK
Allow-Events: presence
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[45] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e56279011db
From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
Date: Wed, 06 Jan 2010 16:08:22 GMT
CSeq: 102 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 198
Content-Type: application/sdp
Content-Disposition: session;handling=optional

```

```

v=0
o=Cisco-SIPUA 9256 2 IN IP4 5.5.5.240
s=SIP Call

```

```
t=0 0
m=audio 31746 RTP/AVP 0 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=inactive
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[46] ACK sip:3034010@5.5.5.240:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e597cf7c237
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 Date: Wed, 06 Jan 2010 16:08:22 GMT
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 Max-Forwards: 70
 CSeq: 102 ACK
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[47] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5a6bb04596
 From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Max-Forwards: 70
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 215

```
v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 0.0.0.0
t=0 0
m=audio 22696 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
aptime:20
a=inactive
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[48] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5b15359a3c
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 103 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 289

```
v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 0.0.0.0
t=0 0
m=audio 31750 RTP/AVP 0 8 18 101
a=rtpmap:0 PCMU/8000
aptime:20
```

```
a=rtpmap:8 PCMA/8000
a=ptime:20
a=rtpmap:18 G729/8000
a=ptime:20
a=inactive
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[49] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5a6bb04596
From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
Date: Wed, 06 Jan 2010 16:08:22 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 199
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 28172 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 31750 RTP/AVP 0 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=inactive
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[50] ACK sip:3034010@5.5.5.240:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5c524924c0
From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
Date: Wed, 06 Jan 2010 16:08:23 GMT
Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
Max-Forwards: 70
CSeq: 101 ACK
Allow-Events: presence
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[51] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5b15359a3c
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
Date: Wed, 06 Jan 2010 16:08:22 GMT
CSeq: 103 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 196
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 93 2 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 22696 RTP/AVP 0 101
c=IN IP4 5.5.5.242
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=inactive
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[52] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5d5c86c49f
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
```

To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 103 ACK
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[53] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5e1f9a96fb
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 CSeq: 103 NOTIFY
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 User-Agent: Cisco-CUCM8.0
 Event: refer
 Subscription-State: terminated;reason=noresource
 Contact: <sip:3034030@5.5.5.45:5060>
 Content-Type: message/sipfrag;version=2.0
 Content-Length: 16

SIP/2.0 200 OK

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[54] UPDATE sip:3034040@5.5.5.242:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5f5a3a0ad2
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 Supported: timer,resource-priority,replaces
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 104 UPDATE
 Contact: <sip:3034010@5.5.5.45:5060>
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[55] UPDATE sip:3034030@5.5.5.241:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e606cb5bf5b
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Date: Wed, 06 Jan 2010 16:08:22 GMT
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 Supported: timer,resource-priority,replaces
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 104 UPDATE
 Contact: <sip:3034010@5.5.5.45:5060>
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[56] BYE sip:3034010@5.5.5.240:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e611bfc9b9e
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 Date: Wed, 06 Jan 2010 16:08:22 GMT
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 104 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[57] BYE sip:3034010@5.5.5.240:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e6251b59338
 From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 102 BYE

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[58] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5e1f9a96fb
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 CSeq: 103 NOTIFY
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[59] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e606cb5bf5b
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:08:22 GMT
 CSeq: 104 UPDATE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4694 2 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 25340 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[60] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e637cb2f11d
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Supported: timer, resource-priority, replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 105 INVITE
 Max-Forwards: 70
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Contact: <sip:3034010@5.5.5.45:5060>;video;audio
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[61] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e611bfc9b9e
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944803
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00067d211886-16c31fd2
 Call-ID: 001a2f8d-f17f0004-75476990-2bb95552@5.5.5.240
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 CSeq: 104 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[62] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e6251b59338
 From: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944805
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00071ae6820e-46ca6681
 Call-ID: 001a2f8d-f17f0005-57673350-70ffe2fd@5.5.5.240
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 CSeq: 102 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[63] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e5f5a3a0ad2
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
 Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:08:22 GMT
 CSeq: 104 UPDATE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Content-Length: 246
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 93 2 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 22696 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.242
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[64] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e643017392c
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
 Supported: timer, resource-priority, replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 105 INVITE
 Max-Forwards: 70
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
 Contact: <sip:3034010@5.5.5.45:5060>;video;audio
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[65] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e637cb2f11d
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:08:22 GMT
 CSeq: 105 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4694 2 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 25340 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[66] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e643017392c
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
 Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:08:22 GMT
 CSeq: 105 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 246
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 93 2 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 22696 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.242
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[67] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e6564c6f1b5
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 105 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 25340 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[68] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e66194ab714
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 105 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 22696 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[69] BYE sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK06e40b00
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13

To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:08:34 GMT
 CSeq: 101 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[70] BYE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e6738419877
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
 Date: Wed, 06 Jan 2010 16:08:23 GMT
 Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 106 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[71] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK06e40b00
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000854952e84-045c8b13
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944804
 Date: Wed, 06 Jan 2010 16:08:35 GMT
 Call-ID: a7ea3580-b441b560-11aa-2d050505@5.5.5.45
 CSeq: 101 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[72] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e6738419877
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944806
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065ec1d35c-0c1bafaf
 Call-ID: b20c3400-b441b571-11ab-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:08:34 GMT
 CSeq: 106 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

5.2 Transfer Semi-Attended (All SIP Basic phones)

Title: Transfer Semi-Attended (All SIP Basic phones)

Description:

G calls H and then performs an early attended transfer to L.

"Transfer Semi-Attended" is sometimes referred to as "Early Attended Transfer".

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Phone = L, Line = 3034040, IP = 5.5.5.242, Model = SIP Basic

Scenario:

3034010 calls 3034030

3034030 is ringing

3034030 answers

3034010 presses Transfer softkey

3034010 dials 3034040

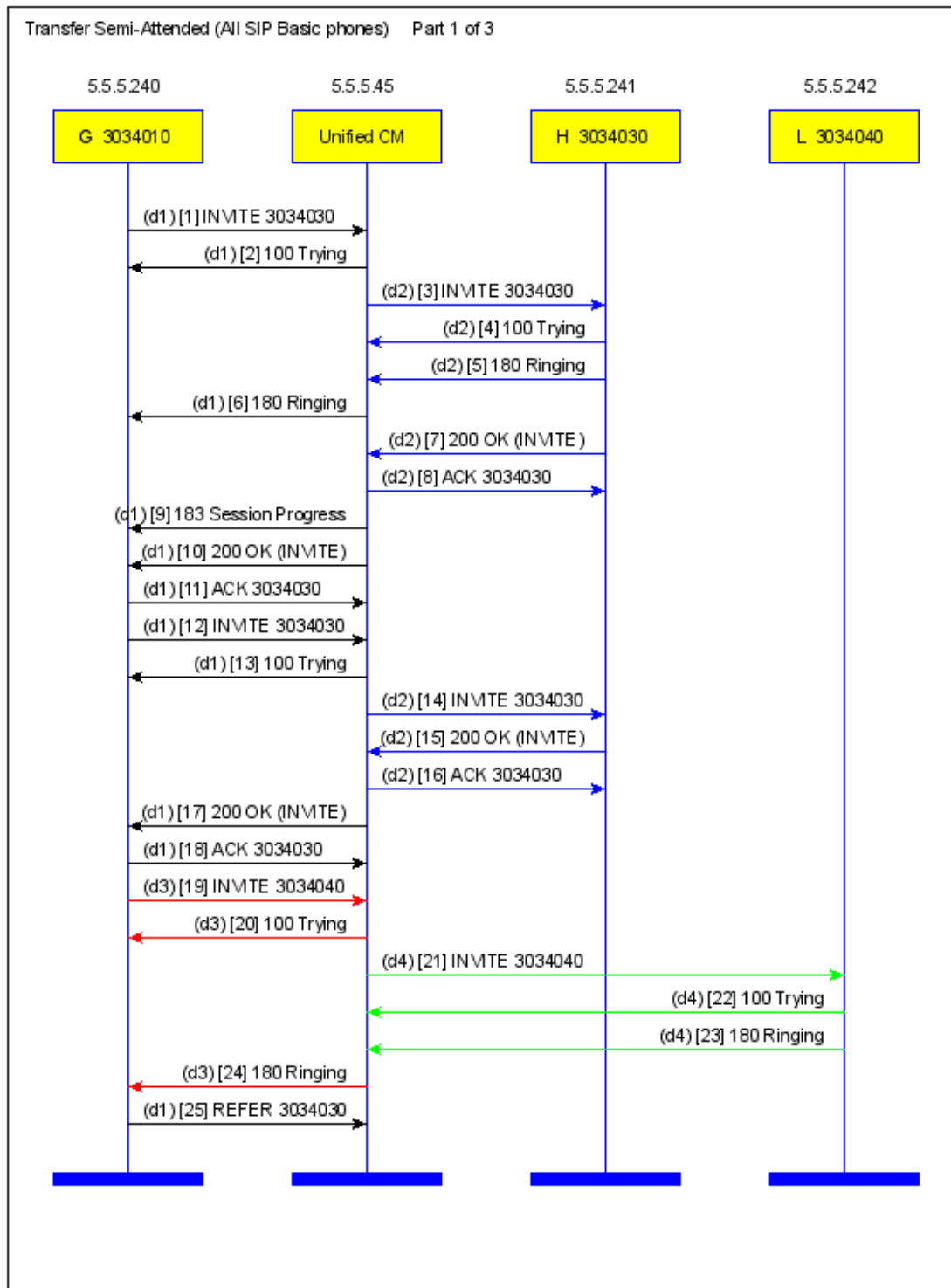
3034040 is ringing

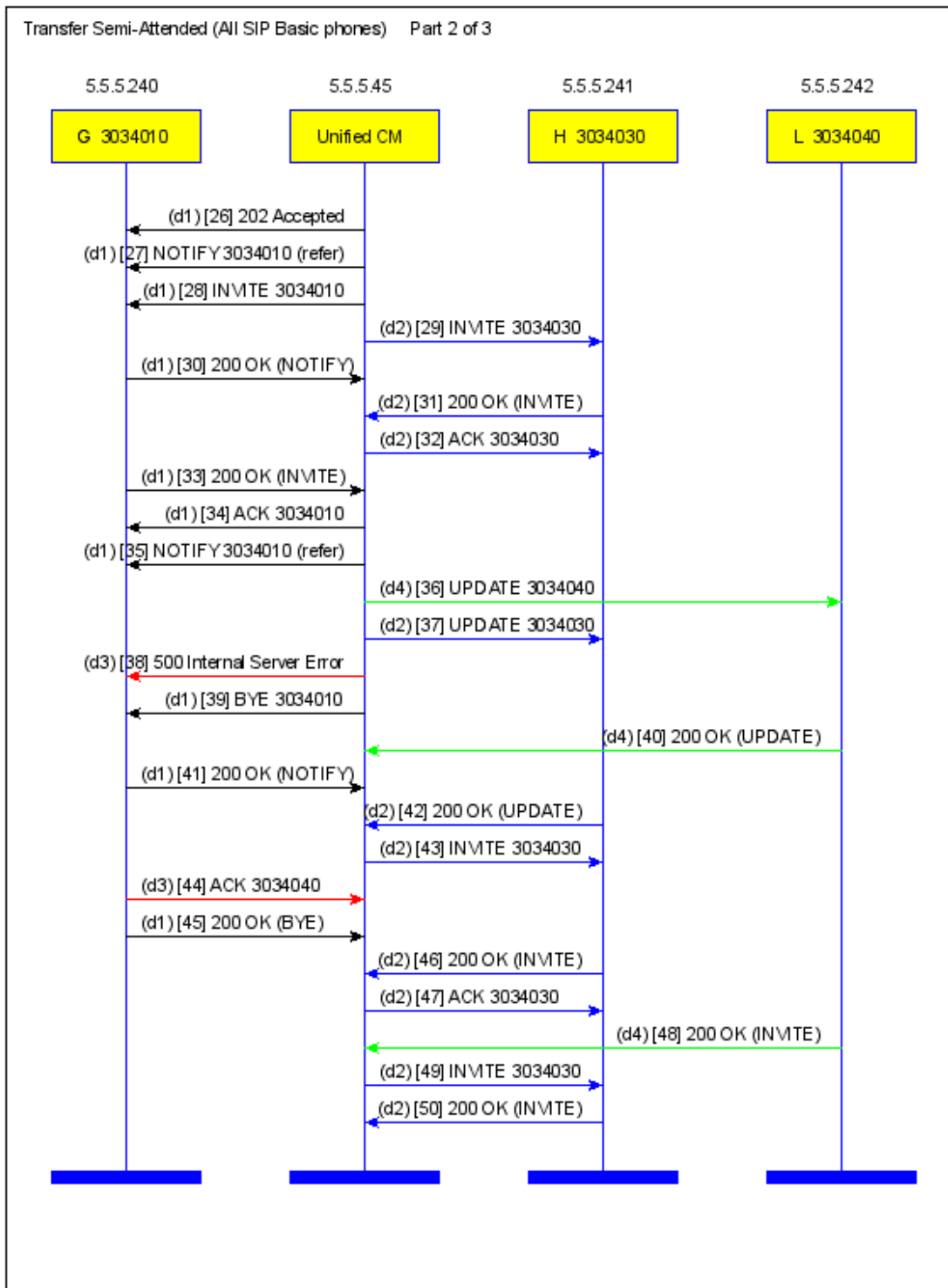
3034010 presses Transfer softkey to complete the transfer

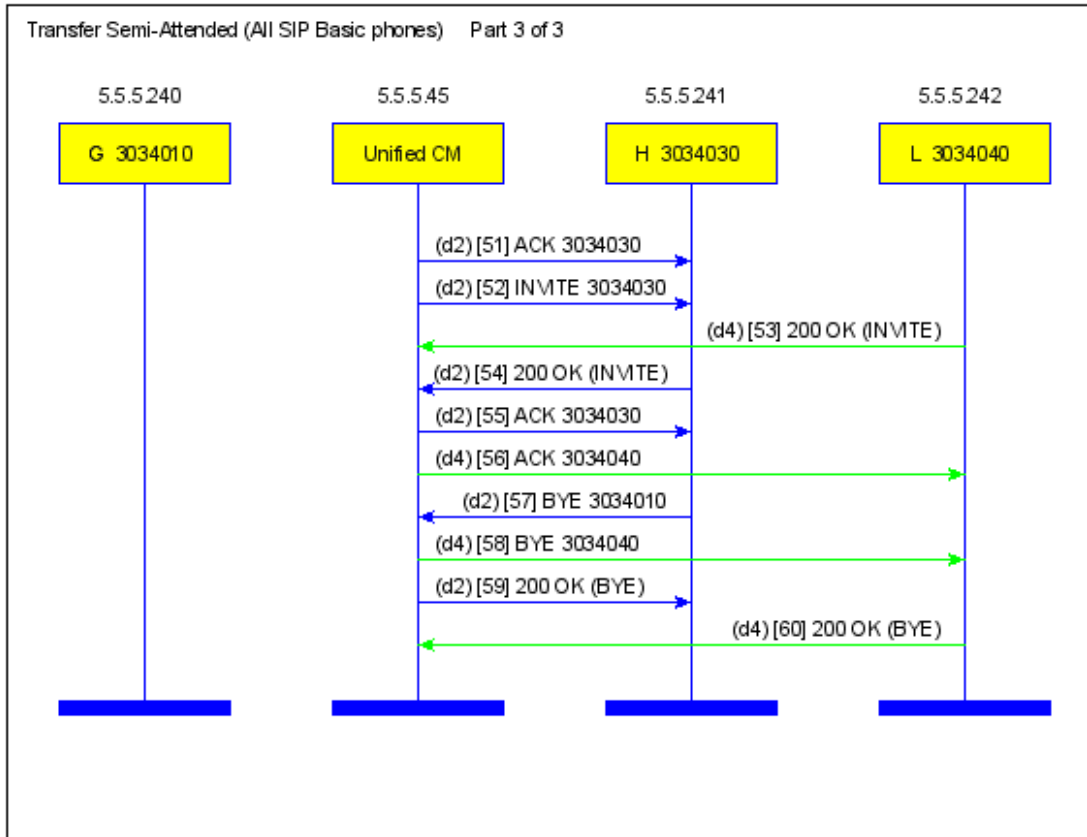
3034040 answers

3034030 and 3034040 are connected

3034030 goes onhook







[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[1] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7aaaae6c0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:20:00 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 16282 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 22898 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7aaaae6c0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 To: <sip:3034030@5.5.5.45>
 Date: Wed, 20 Jan 2010 00:20:01 GMT
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86633c0a099
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>
 Date: Wed, 20 Jan 2010 00:20:01 GMT
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86633c0a099
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:20:00 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86633c0a099
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:20:00 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7aeee6c0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 Date: Wed, 20 Jan 2010 00:20:01 GMT
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86633c0a099
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:20:03 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 10145 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 27536 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8671b4898a9
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Date: Wed, 20 Jan 2010 00:20:01 GMT
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 22898 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20

```
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7aeee6c0
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
Date: Wed, 20 Jan 2010 00:20:01 GMT
Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 27536 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7aeee6c0
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
Date: Wed, 20 Jan 2010 00:20:01 GMT
Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 27536 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK59cc9b48
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
Max-Forwards: 70
Date: Wed, 20 Jan 2010 00:20:05 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] INVITE sip:3034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK63a0ee24
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
Max-Forwards: 70
Date: Wed, 20 Jan 2010 00:20:21 GMT
CSeq: 102 INVITE
```

User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 16282 1 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 22898 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendonly

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK63a0ee24
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 Date: Wed, 20 Jan 2010 00:20:22 GMT
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 CSeq: 102 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK868215dc772
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Date: Wed, 20 Jan 2010 00:20:22 GMT
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 102 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 291

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 22898 RTP/AVP 0 8 18 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:8 PCMA/8000
 a=ptime:20
 a=rtpmap:18 G729/8000
 a=ptime:20
 a=sendonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK868215dc772
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:20:20 GMT
 CSeq: 102 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces

Content-Length: 199
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 10145 1 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 27536 RTP/AVP 0 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=recvonly

[diagram] Call-ID: [prev][next]

[16] ACK sip:303403005.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK869629d57c2
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Date: Wed, 20 Jan 2010 00:20:22 GMT
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 102 ACK
 Allow-Events: presence
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[17] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK63a0ee24
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 To: <sip:3034030@5.5.5.241>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 Date: Wed, 20 Jan 2010 00:20:22 GMT
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 CSeq: 102 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Supported: replaces
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 217

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 27536 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=recvonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[diagram] Call-ID: [prev][next]

[18] ACK sip:303403005.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK137f9d24
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:20:22 GMT
 CSeq: 102 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[19] INVITE sip:303404005.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1e313bc5
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00097de9af6d-33f99d11
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2f8d-f17f0005-280de303-16cd0ac0@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:20:31 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180

```

Accept: application/sdp
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 248
Content-Type: application/sdp
Content-Disposition: session;handling=optional

```

```

v=0
o=Cisco-SIPUA 9724 0 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 22902 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[20] SIP/2.0 100 Trying

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1e313bc5
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00097de9af6d-33f99d11
To: <sip:3034040@5.5.5.45>
Date: Wed, 20 Jan 2010 00:20:31 GMT
Call-ID: 001a2f8d-f17f0005-280de303-16cd0ac0@5.5.5.240
CSeq: 101 INVITE
Allow-Events: presence
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[21] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86a67d888b9
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454939
To: <sip:3034040@5.5.5.242>
Date: Wed, 20 Jan 2010 00:20:31 GMT
Call-ID: 9d0db700-b5614c4f-839-2d050505@5.5.5.45
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 101 INVITE
Expires: 180
Allow-Events: presence
Send-Info: conference
Alert-Info: <file://Bellcore-dr1/>
Contact: <sip:3034040@5.5.5.45:5060>
Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
Max-Forwards: 69
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[22] SIP/2.0 100 Trying

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86a67d888b9
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454939
To: <sip:3034040@5.5.5.242>
Call-ID: 9d0db700-b5614c4f-839-2d050505@5.5.5.45
Date: Wed, 20 Jan 2010 00:20:32 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[23] SIP/2.0 180 Ringing

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86a67d888b9
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454939
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0008637cca7b-7e06071f
Call-ID: 9d0db700-b5614c4f-839-2d050505@5.5.5.45
Date: Wed, 20 Jan 2010 00:20:32 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes

```

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[24] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1e313bc5
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00097de9af6d-33f99d11
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 Date: Wed, 20 Jan 2010 00:20:31 GMT
 Call-ID: 001a2f8d-f17f0005-280de303-16cd0ac0@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034040@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[25] REFER sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2da3ef56
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:20:36 GMT
 CSeq: 103 REFER
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0
 Refer-To: <sip:3034040@5.5.5.45?Replaces=001a2f8d-f17f0005-280de303-16cd0ac0%405.5.5.240%3Bto-tag%3D71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454938%3Bfrom-tag%3D001a2f8df17f00097de9af6d-33f99d11>
 Referred-By: "3034010" <sip:3034010@5.5.5.45>

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[26] SIP/2.0 202 Accepted

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2da3ef56
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 Date: Wed, 20 Jan 2010 00:20:36 GMT
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 CSeq: 103 REFER
 Content-Length: 0
 Contact: <sip:3034030@5.5.5.45:5060>

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[27] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86b60b75339
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 CSeq: 101 NOTIFY
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:20:36 GMT
 User-Agent: Cisco-CUCM8.0
 Event: refer
 Subscription-State: active;expires=60
 Contact: <sip:3034030@5.5.5.45:5060>
 Content-Type: message/sipfrag;version=2.0
 Content-Length: 20

SIP/2.0 100 Trying

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[28] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86c6241a4c7
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 Date: Wed, 20 Jan 2010 00:20:36 GMT
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 102 INVITE
 Max-Forwards: 70
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off

Content-Type: application/sdp
Content-Length: 215

```
v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 0.0.0.0
t=0 0
m=audio 27536 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=inactive
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[29] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86d6860bf39
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
Date: Wed, 20 Jan 2010 00:20:36 GMT
Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 103 INVITE
Max-Forwards: 70
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Allow-Events: presence
Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 289
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 0.0.0.0
t=0 0
m=audio 22898 RTP/AVP 0 8 18 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:8 PCMA/8000
a=ptime:20
a=rtpmap:18 G729/8000
a=ptime:20
a=inactive
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[30] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86b60b75339
From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eeee
Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
Date: Wed, 20 Jan 2010 00:20:36 GMT
CSeq: 101 NOTIFY
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[31] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86d6860bf39
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
Date: Wed, 20 Jan 2010 00:20:35 GMT
CSeq: 103 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034030@5.5.5.241:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 199
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 10145 2 IN IP4 5.5.5.241
```

```
s=SIP Call
t=0 0
m=audio 27536 RTP/AVP 0 101
c=IN IP4 5.5.5.241
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=inactive
```

[[diagram](#)] Call-ID: [[prev](#)][\[next\]](#)

[32] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86e70d7e234
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
Date: Wed, 20 Jan 2010 00:20:36 GMT
Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 103 ACK
Allow-Events: presence
Content-Length: 0
```

[[diagram](#)] Call-ID: [[prev](#)][\[next\]](#)

[33] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86c6241a4c7
From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eeee9
Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
Date: Wed, 20 Jan 2010 00:20:36 GMT
CSeq: 102 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034010@5.5.5.240:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 199
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 16282 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 22898 RTP/AVP 0 101
c=IN IP4 5.5.5.240
a=rtpmap:0 PCMU/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=inactive
```

[[diagram](#)] Call-ID: [[prev](#)][\[next\]](#)

[34] ACK sip:3034010@5.5.5.240:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86f4387144b
From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eeee9
Date: Wed, 20 Jan 2010 00:20:36 GMT
Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
Max-Forwards: 70
CSeq: 102 ACK
Allow-Events: presence
Content-Length: 0
```

[[diagram](#)] Call-ID: [[prev](#)][\[next\]](#)

[35] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8703cac400d
From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eeee9
Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
CSeq: 103 NOTIFY
Max-Forwards: 70
Date: Wed, 20 Jan 2010 00:20:37 GMT
User-Agent: Cisco-CUCM8.0
Event: refer
Subscription-State: terminated;reason=noresource
Contact: <sip:3034030@5.5.5.45:5060>
Content-Type: message/sipfrag;version=2.0
Content-Length: 16
```

SIP/2.0 200 OK

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[36] UPDATE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK87177d30bad
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0008637cca7b-7e06071f
 Date: Wed, 20 Jan 2010 00:20:31 GMT
 Call-ID: 9d0db700-b5614c4f-839-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 Supported: timer,resource-priority,replaces
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 102 UPDATE
 Contact: <sip:3034010@5.5.5.45:5060>
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[37] UPDATE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8721647e0dc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Date: Wed, 20 Jan 2010 00:20:36 GMT
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 Supported: timer,resource-priority,replaces
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 104 UPDATE
 Contact: <sip:3034010@5.5.5.45:5060>
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[38] SIP/2.0 500 Internal Server Error

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1e313bc5
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00097de9af6d-33f99d11
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454938
 Date: Wed, 20 Jan 2010 00:20:31 GMT
 Call-ID: 001a2f8d-f17f0005-280de303-16cd0ac0@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[39] BYE sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK87314070278
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 Date: Wed, 20 Jan 2010 00:20:36 GMT
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 104 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[40] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK87177d30bad
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0008637cca7b-7e06071f
 Call-ID: 9d0db700-b5614c4f-839-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:20:36 GMT
 CSeq: 102 UPDATE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[41] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8703cac400d
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 Date: Wed, 20 Jan 2010 00:20:36 GMT
 CSeq: 103 NOTIFY
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[42] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8721647e0dc
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:20:35 GMT
 CSeq: 104 UPDATE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 10145 2 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 27536 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[43] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK87434d83f6f
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Date: Wed, 20 Jan 2010 00:20:37 GMT
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 105 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[44] ACK sip:3034040@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1e313bc5
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00097de9af6d-33f99d11
 To: <sip:3034040@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454938
 Call-ID: 001a2f8d-f17f0005-280de303-16cd0ac0@5.5.5.240
 Date: Wed, 20 Jan 2010 00:20:37 GMT
 CSeq: 101 ACK
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[45] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK87314070278
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454936
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00086b053e79-1cb5eee9
 Call-ID: 001a2f8d-f17f0004-761a4db3-77c53faf@5.5.5.240
 Date: Wed, 20 Jan 2010 00:20:37 GMT
 CSeq: 104 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[46] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK87434d83f6f
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:20:36 GMT
 CSeq: 105 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249

Content-Type: application/sdp
Content-Disposition: session;handling=optional

```
v=0
o=Cisco-SIPUA 10145 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 27536 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.241
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[47] ACK sip:30340300@5.5.5.241:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8752c17c403
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
Date: Wed, 20 Jan 2010 00:20:37 GMT
Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 105 ACK
Allow-Events: presence
Content-Type: application/sdp
Content-Length: 159
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.45
t=0 0
m=audio 4000 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
a=sendonly
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[48] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86a67d888b9
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454939
To: <sip:30340400@5.5.5.242>;tag=0018b93bb53e0008637cca7b-7e06071f
Call-ID: 9d0db700-b5614c4f-839-2d050505@5.5.5.45
Date: Wed, 20 Jan 2010 00:20:39 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:30340400@5.5.5.242:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 23483 0 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 32698 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.242
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[49] INVITE sip:30340300@5.5.5.241:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8762ae40c50
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
Date: Wed, 20 Jan 2010 00:20:39 GMT
Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
```


CSeq: 106 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 158

v=0
 o=CiscoSystemsCCM-SIP 2000 5 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 0.0.0.0
 t=0 0
 m=audio 4000 RTP/AVP 0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=inactive

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[50] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8762ae40c50
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:20:38 GMT
 CSeq: 106 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 143
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 10145 4 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 27536 RTP/AVP 0
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=inactive

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[51] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8775f0c2808
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Date: Wed, 20 Jan 2010 00:20:39 GMT
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 106 ACK
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[52] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK87865268a7a
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Date: Wed, 20 Jan 2010 00:20:39 GMT
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 107 INVITE
 Max-Forwards: 70
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Contact: <sip:3034010@5.5.5.45:5060>;video;audio
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[53] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86a67d888b9
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937

To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0008637cca7b-7e06071f
 Call-ID: 9d0db700-b5614c4f-839-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:20:39 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 23483 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 32698 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.242
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[54] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK87865268a7a
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:20:38 GMT
 CSeq: 107 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 10145 4 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 27536 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[55] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK879223b0aab
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 Date: Wed, 20 Jan 2010 00:20:39 GMT
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 107 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 6 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 32698 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[56] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK87a639b6585
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454939
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0008637cca7b-7e06071f
 Date: Wed, 20 Jan 2010 00:20:31 GMT
 Call-ID: 9d0db700-b5614c4f-839-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 27536 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[57] BYE sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK0e0f962a
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:20:50 GMT
 CSeq: 101 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[58] BYE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK87b16bb27ca
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454939
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0008637cca7b-7e06071f
 Date: Wed, 20 Jan 2010 00:20:31 GMT
 Call-ID: 9d0db700-b5614c4f-839-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 103 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[59] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK0e0f962a
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0744ffb9-467a42bc
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454937
 Date: Wed, 20 Jan 2010 00:20:51 GMT
 Call-ID: 8b2c1400-b5614c31-838-2d050505@5.5.5.45
 CSeq: 101 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[60] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK87b16bb27ca
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454939
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0008637cca7b-7e06071f
 Call-ID: 9d0db700-b5614c4f-839-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:20:51 GMT
 CSeq: 103 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

5.3 Transfer Unattended (SIP Basic phones)

Title: Transfer Unattended (SIP Basic phones)

Description:

G calls H and then performs a consultative transfer to L.

"transfer unattended" is sometimes referred to as "Blind Transfer"

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Phone = L, Line = 3034040, IP = 5.5.5.242, Model = SIP Basic

Scenario:

3034010 calls 3034030

3034030 is ringing

3034030 answers

3034010 presses BlindXfer softkey

3034010 dials 3034040

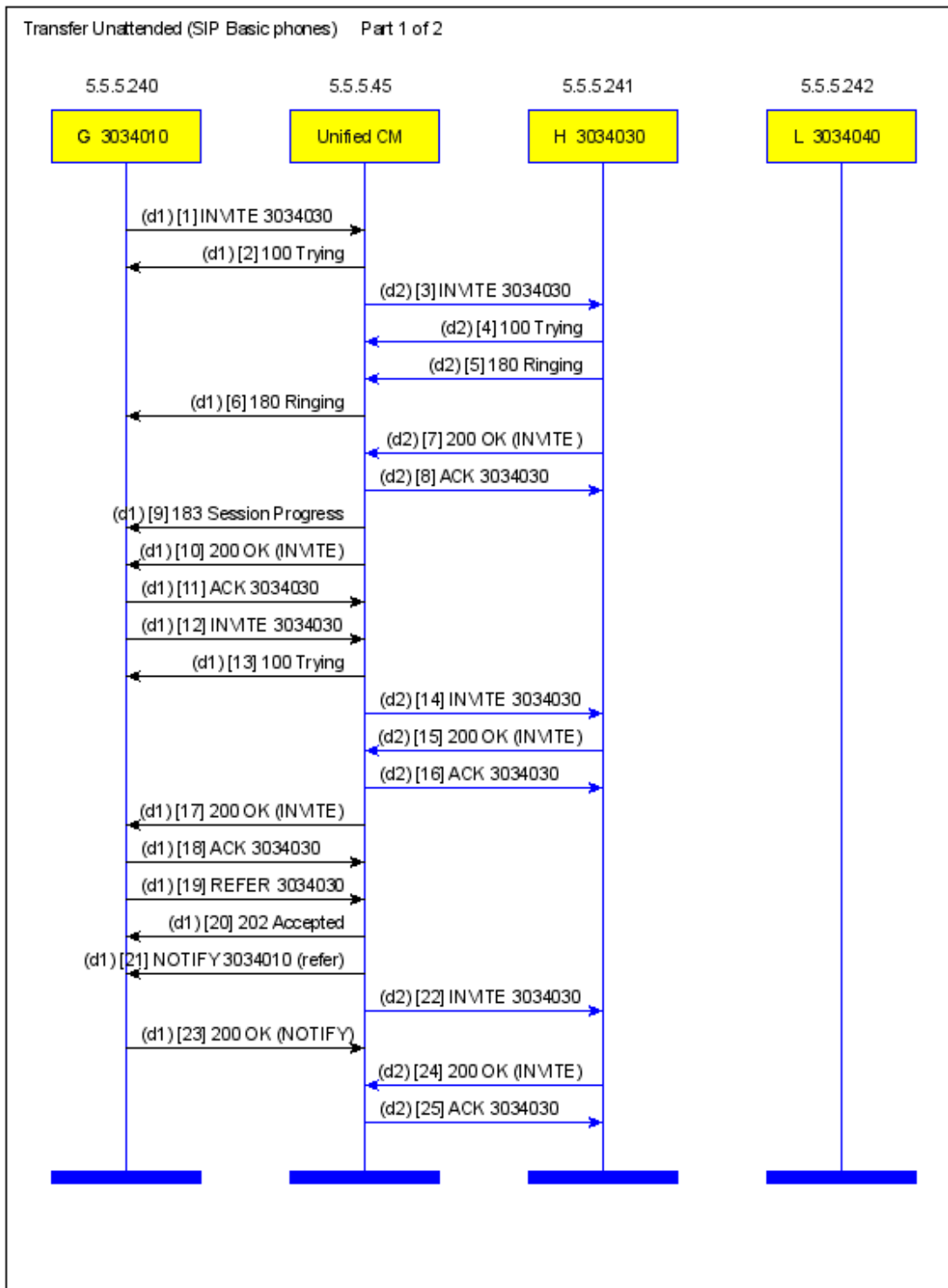
Call is cleared from 3034010

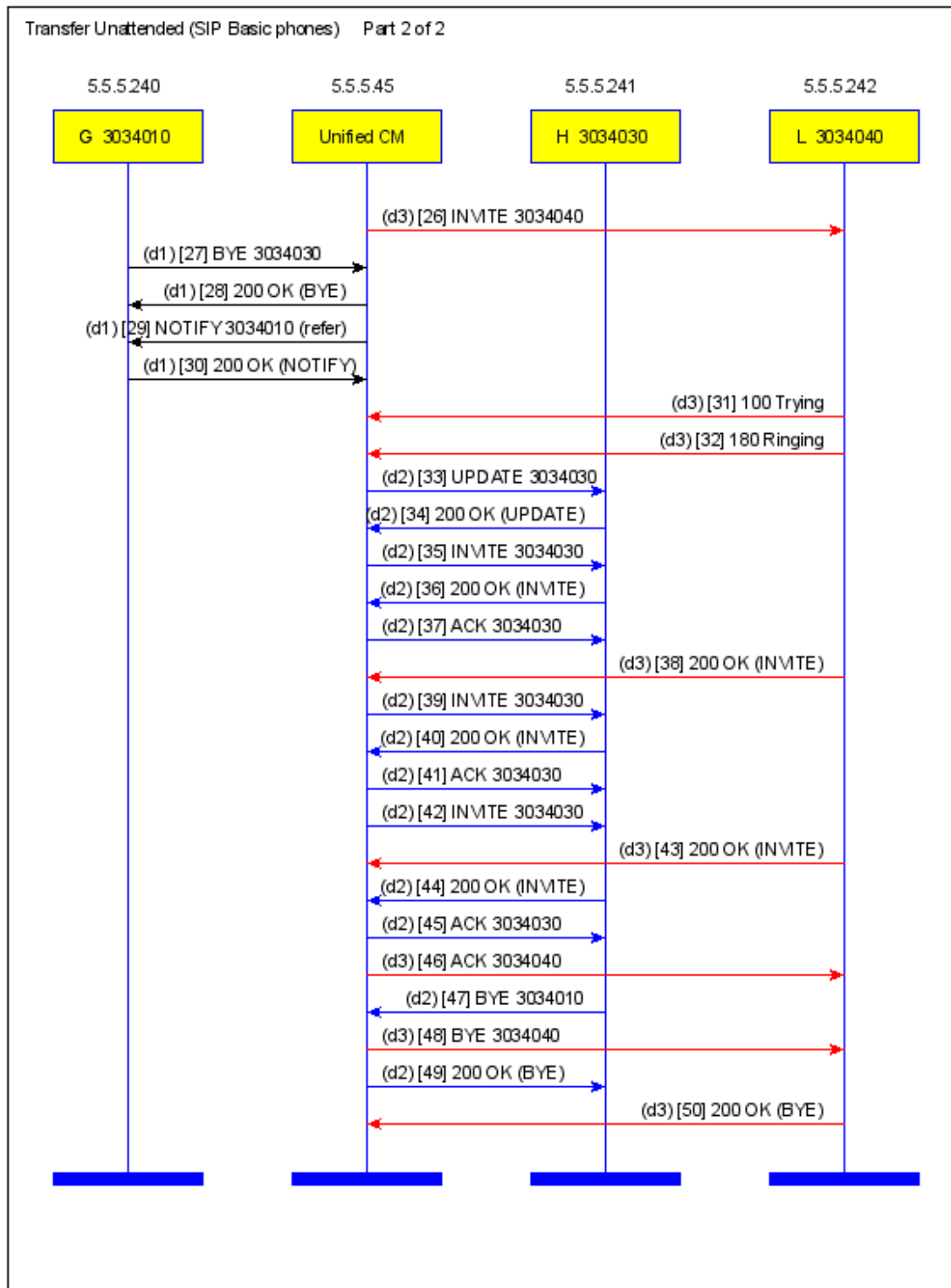
3034040 is ringing

3034040 answers

3034030 and 3034040 are connected

3034030 goes onhook





[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7829a298
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:17:04 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 13063 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 30368 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7829a298
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 To: <sip:3034030@5.5.5.45>
 Date: Wed, 06 Jan 2010 16:17:05 GMT
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7369ef0e9c
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>
 Date: Wed, 06 Jan 2010 16:17:05 GMT
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7369ef0e9c
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:17:04 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7369ef0e9c
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:17:04 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7829a298
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 Date: Wed, 06 Jan 2010 16:17:05 GMT
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7369ef0e9c
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:17:06 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 26682 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 22666 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e743bc40a22
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Date: Wed, 06 Jan 2010 16:17:05 GMT
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 30368 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20

a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7829a298
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
Date: Wed, 06 Jan 2010 16:17:05 GMT
Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 22666 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7829a298
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
Date: Wed, 06 Jan 2010 16:17:05 GMT
Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 22666 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK73ecb12c
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 16:17:06 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] INVITE sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4c53434c
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 16:17:10 GMT
CSeq: 102 INVITE

User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 13063 1 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 30368 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendonly

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4c53434c
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 Date: Wed, 06 Jan 2010 16:17:11 GMT
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 CSeq: 102 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7527980f3d
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Date: Wed, 06 Jan 2010 16:17:11 GMT
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 102 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 291

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 30368 RTP/AVP 0 8 18 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:8 PCMA/8000
 a=ptime:20
 a=rtpmap:18 G729/8000
 a=ptime:20
 a=sendonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7527980f3d
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:17:10 GMT
 CSeq: 102 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces

Content-Length: 199
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 26682 1 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 22666 RTP/AVP 0 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=recvonly

[diagram] Call-ID: [prev][next]

[16] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e763d4fc9db
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Date: Wed, 06 Jan 2010 16:17:11 GMT
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 102 ACK
 Allow-Events: presence
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[17] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4c53434c
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 Date: Wed, 06 Jan 2010 16:17:11 GMT
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 CSeq: 102 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Supported: replaces
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 217

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 22666 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20
 a=recvonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[diagram] Call-ID: [prev][next]

[18] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4237308c
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:17:10 GMT
 CSeq: 102 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[19] REFER sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK07ca229f
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:17:19 GMT
 CSeq: 103 REFER
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes

Content-Length: 0
 Refer-To: sip:3034040@5.5.5.45
 Referred-By: "3034010" <sip:3034010@5.5.5.45>

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[20] SIP/2.0 202 Accepted

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK07ca229f
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 Date: Wed, 06 Jan 2010 16:17:20 GMT
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 CSeq: 103 REFER
 Content-Length: 0
 Contact: <sip:3034030@5.5.5.45:5060>

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[21] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e77343ada66
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 CSeq: 101 NOTIFY
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:17:20 GMT
 User-Agent: Cisco-CUCM8.0
 Event: refer
 Subscription-State: active;expires=60
 Contact: <sip:3034030@5.5.5.45:5060>
 Content-Type: message/sipfrag;version=2.0
 Content-Length: 20

SIP/2.0 100 Trying

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[22] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7863f1a7c3
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Date: Wed, 06 Jan 2010 16:17:20 GMT
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 103 INVITE
 Max-Forwards: 70
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Allow-Events: presence
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 289

v=0
 o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 0.0.0.0
 t=0 0
 m=audio 30368 RTP/AVP 0 8 18 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:8 PCMA/8000
 a=ptime:20
 a=rtpmap:18 G729/8000
 a=ptime:20
 a=inactive
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[23] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e77343ada66
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 Date: Wed, 06 Jan 2010 16:17:19 GMT
 CSeq: 101 NOTIFY
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[24] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7863f1a7c3
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:17:19 GMT
 CSeq: 103 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 199
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 26682 2 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 22666 RTP/AVP 0 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=inactive

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[25] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e793c9517c3
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Date: Wed, 06 Jan 2010 16:17:20 GMT
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 103 ACK
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[26] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7a23d6ba4e
 From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944812
 To: <sip:3034040@5.5.5.242>
 Date: Wed, 06 Jan 2010 16:17:20 GMT
 Call-ID: f5b36d80-b441b790-11b6-2d050505@5.5.5.45
 Supported: timer, resource-priority, replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034040@5.5.5.45:5060>
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45;x-cisco-callback-number=3034030>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[27] BYE sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0e98d1e3
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:17:19 GMT
 CSeq: 104 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[28] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0e98d1e3
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 Date: Wed, 06 Jan 2010 16:17:20 GMT

Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 CSeq: 104 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[29] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7b22f1f26a
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 CSeq: 102 NOTIFY
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:17:20 GMT
 User-Agent: Cisco-CUCM8.0
 Event: refer
 Subscription-State: terminated;reason=deactivated
 Contact: <sip:3034030@5.5.5.45:5060>
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[30] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7b22f1f26a
 From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944809
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00061c14791c-4932114d
 Call-ID: 001a2f8d-f17f0005-06ce66cd-0169f510@5.5.5.240
 Date: Wed, 06 Jan 2010 16:17:19 GMT
 CSeq: 102 NOTIFY
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[31] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7a23d6ba4e
 From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944812
 To: <sip:3034040@5.5.5.242>
 Call-ID: f5b36d80-b441b790-11b6-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:17:19 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[32] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7a23d6ba4e
 From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944812
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00050752008d-14f20d01
 Call-ID: f5b36d80-b441b790-11b6-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:17:20 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[33] UPDATE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7c6ae3f472
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Date: Wed, 06 Jan 2010 16:17:20 GMT
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 Supported: timer,resource-priority,replaces
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 104 UPDATE
 Contact: <sip:3034010@5.5.5.45:5060>
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[34] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7c6ae3f472
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:17:19 GMT


```
CSeq: 104 UPDATE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034030@5.5.5.241:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Content-Length: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 26682 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 22666 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.241
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[35] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7d121aba1b
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
Date: Wed, 06 Jan 2010 16:17:21 GMT
Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 105 INVITE
Max-Forwards: 70
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Allow-Events: presence
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[36] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7d121aba1b
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
Date: Wed, 06 Jan 2010 16:17:20 GMT
CSeq: 105 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034030@5.5.5.241:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 26682 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 22666 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.241
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[37] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7ec33fa3e
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
Date: Wed, 06 Jan 2010 16:17:21 GMT
Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 105 ACK
Allow-Events: presence
```

Content-Type: application/sdp
Content-Length: 159

v=0
o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.45
t=0 0
m=audio 4000 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
a=sendonly

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[38] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7a23d6ba4e
From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944812
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00050752008d-14f20d01
Call-ID: f5b36d80-b441b790-11b6-2d050505@5.5.5.45
Date: Wed, 06 Jan 2010 16:17:21 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional

v=0
o=Cisco-SIPUA 25941 0 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 30656 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.242
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[39] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7f1e376c91
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
Date: Wed, 06 Jan 2010 16:17:22 GMT
Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
Supported: timer, resource-priority, replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 106 INVITE
Max-Forwards: 70
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Allow-Events: presence
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 158

v=0
o=CiscoSystemsCCM-SIP 2000 5 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 0.0.0.0
t=0 0
m=audio 4000 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
a=inactive

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[40] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7f1e376c91
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
Date: Wed, 06 Jan 2010 16:17:21 GMT


```
CSeq: 106 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034030@5.5.5.241:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 143
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 26682 4 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 22666 RTP/AVP 0
c=IN IP4 5.5.5.241
a=rtpmap:0 PCMU/8000
a=inactive
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[41] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e8028d558cb
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
Date: Wed, 06 Jan 2010 16:17:22 GMT
Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 106 ACK
Allow-Events: presence
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[42] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e8157c923a3
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
Date: Wed, 06 Jan 2010 16:17:22 GMT
Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
Supported: timer,resource-priority,replaces
Min-SE: 1800
User-Agent: Cisco-CUCM8.0
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
CSeq: 107 INVITE
Max-Forwards: 70
Expires: 180
Allow-Events: presence
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
Contact: <sip:3034010@5.5.5.45:5060>;video;audio
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[43] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e7a23d6ba4e
From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944812
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00050752008d-14f20d01
Call-ID: f5b36d80-b441b790-11b6-2d050505@5.5.5.45
Date: Wed, 06 Jan 2010 16:17:21 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 25941 0 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 30656 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.242
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[44] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e8157c923a3
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:17:21 GMT
 CSeq: 107 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 26682 4 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 22666 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[45] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e827e8b8591
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 Date: Wed, 06 Jan 2010 16:17:22 GMT
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 107 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 6 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 30656 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[46] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e8347948a8c
 From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944812
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00050752008d-14f20d01
 Date: Wed, 06 Jan 2010 16:17:20 GMT
 Call-ID: f5b36d80-b441b790-11b6-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 22666 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[47] BYE sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK62bf0855
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 16:17:28 GMT
 CSeq: 101 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[48] BYE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e845bec3225
 From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944812
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00050752008d-14f20d01
 Date: Wed, 06 Jan 2010 16:17:20 GMT
 Call-ID: f5b36d80-b441b790-11b6-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[49] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK62bf0855
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60008703a8928-2e4842f4
 To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944810
 Date: Wed, 06 Jan 2010 16:17:30 GMT
 Call-ID: ecc29c00-b441b781-11b5-2d050505@5.5.5.45
 CSeq: 101 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[50] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e845bec3225
 From: "3034030 Displayname" <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944812
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00050752008d-14f20d01
 Call-ID: f5b36d80-b441b790-11b6-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 16:17:29 GMT
 CSeq: 102 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

6. Call Forwarding

6.1 Call Forward All

Title: Call Forward All

Description:

(F ---> G --CFA--> H)

F calls line 3034010 on B while Unified CM has line 3034010 on G configured to forward all calls to H.

Notice the "Diversion:" header in the INVITE to H. It uses "unconditional" to indicate Call Forward All.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = F, Line = 3033100, IP = 5.5.5.226, Model = SIP Basic

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Scenario:

3033100 calls 3034010

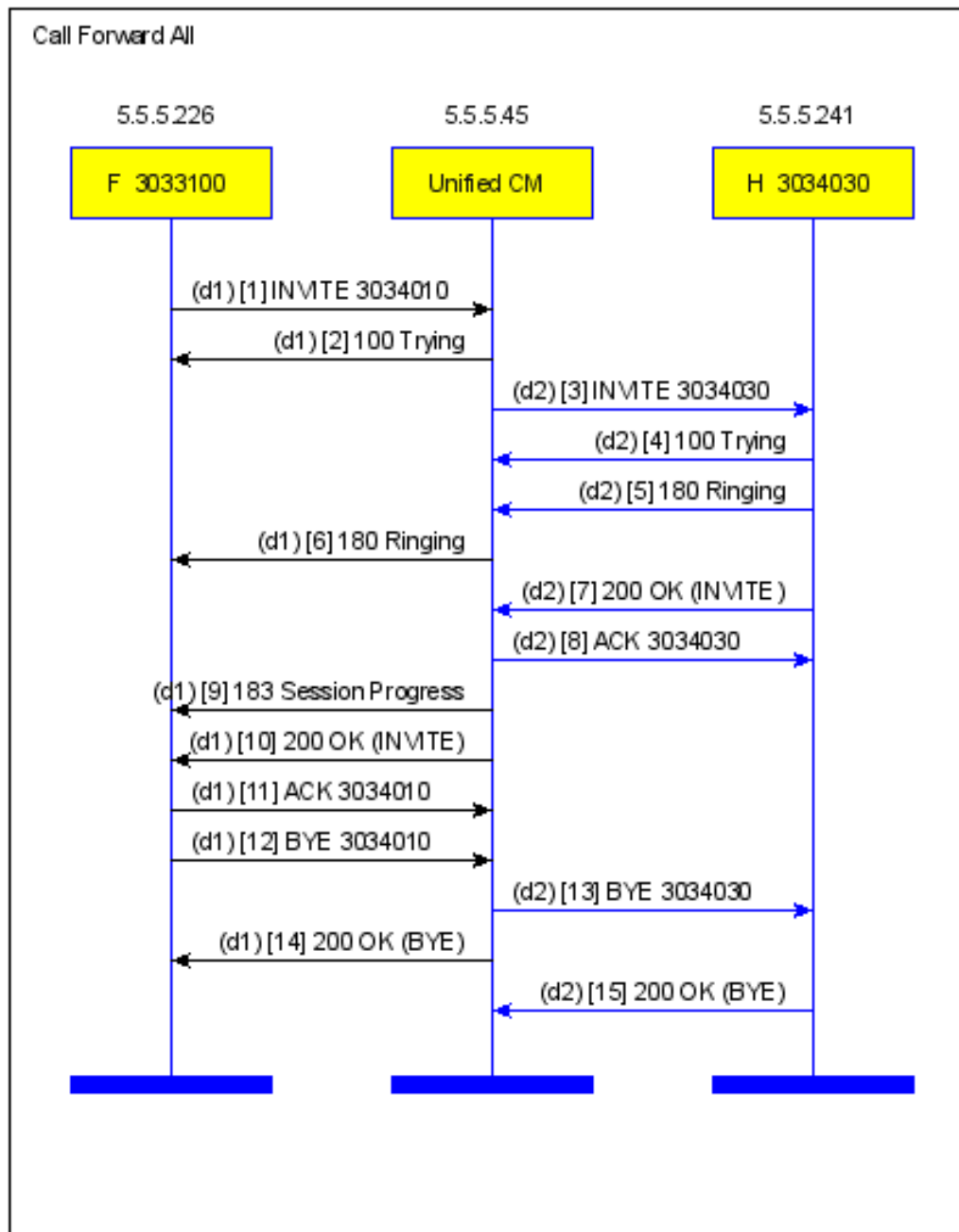
3034010 never gets ringing (Unified CM forwards)

3034030 rings

3034030 answers

3033100 and 3034030 are connected

3033100 goes onhook



[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[1] INVITE sip:3034010@titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK63c0b497
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002c31bfa9a5-77935fa7
 To: <sip:3034010@titan-pub>
 Call-ID: 000ab8f5-aadf0008-0ac8db8b-6670b486@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/8.0
 Contact: <sip:3033100@5.5.5.226:5060;transport=udp>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "Tripti" <sip:3033100@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 270
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 13506 0 IN IP4 5.5.5.226
 s=SIP Call
 t=0 0
 m=audio 16948 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.226
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=fmtp:18 annexb=no
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK63c0b497
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002c31bfa9a5-77935fa7
 To: <sip:3034010@titan-pub>
 Date: Wed, 06 Jan 2010 19:05:59 GMT
 Call-ID: 000ab8f5-aadf0008-0ac8db8b-6670b486@5.5.5.226
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1edc9e39363
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944845
 To: <sip:3034030@5.5.5.241>
 Date: Wed, 06 Jan 2010 19:05:59 GMT
 Call-ID: 85184b00-b441df17-11e5-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Diversion: "3034010 Alertingname" <sip:3034010@5.5.5.45>;reason=unconditional;privacy=off;screen=yes
 Remote-Party-ID: "Tripti" <sip:3033100@5.5.5.45;x-cisco-callback-number=3033100>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1edc9e39363
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944845
 To: <sip:3034030@5.5.5.241>
 Call-ID: 85184b00-b441df17-11e5-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:05:59 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1edc9e39363
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944845
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6002d725ba9ae-3fcb60a7
 Call-ID: 85184b00-b441df17-11e5-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:06:00 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK63c0b497
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002c31bfa9a5-77935fa7
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944842
 Date: Wed, 06 Jan 2010 19:05:59 GMT
 Call-ID: 000ab8f5-aadf0008-0ac8db8b-6670b486@5.5.5.226
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034010@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1edc9e39363
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944845
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6002d725ba9ae-3fcb60a7
 Call-ID: 85184b00-b441df17-11e5-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:06:01 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 20249 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 31468 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1edd414544f2
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944845
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6002d725ba9ae-3fcb60a7
 Date: Wed, 06 Jan 2010 19:05:59 GMT
 Call-ID: 85184b00-b441df17-11e5-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.226
 t=0 0
 m=audio 16948 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20

```
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

```
Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK63c0b497
From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002c31bfa9a5-77935fa7
To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944842
Date: Wed, 06 Jan 2010 19:05:59 GMT
Call-ID: 000ab8f5-aadf0008-0ac8db8b-6670b486@5.5.5.226
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034010@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 31468 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK63c0b497
From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002c31bfa9a5-77935fa7
To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944842
Date: Wed, 06 Jan 2010 19:05:59 GMT
Call-ID: 000ab8f5-aadf0008-0ac8db8b-6670b486@5.5.5.226
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034010@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 31468 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK4b9c82a2
From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002c31bfa9a5-77935fa7
To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944842
Call-ID: 000ab8f5-aadf0008-0ac8db8b-6670b486@5.5.5.226
Max-Forwards: 70
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/8.0
Remote-Party-ID: "Tripti" <sip:3033100@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] BYE sip:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK08298072
From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002c31bfa9a5-77935fa7
To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944842
Call-ID: 000ab8f5-aadf0008-0ac8db8b-6670b486@5.5.5.226
Max-Forwards: 70
CSeq: 102 BYE
User-Agent: Cisco-CP7960G/8.0
Content-Length: 0
```


[diagram] Call-ID: [prev][next]

[13] BYE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ede3077681e
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944845
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6002d725ba9ae-3fcb60a7
 Date: Wed, 06 Jan 2010 19:05:59 GMT
 Call-ID: 85184b00-b441df17-11e5-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 102 BYE
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[14] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK08298072
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002c31bfa9a5-77935fa7
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944842
 Date: Wed, 06 Jan 2010 19:06:05 GMT
 Call-ID: 000ab8f5-aadf0008-0ac8db8b-6670b486@5.5.5.226
 CSeq: 102 BYE
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ede3077681e
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944845
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6002d725ba9ae-3fcb60a7
 Call-ID: 85184b00-b441df17-11e5-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:06:05 GMT
 CSeq: 102 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

6.2 Call Forward No Answer

Title: Call Forward No Answer

Description:

(F ---> G ---CFNA---> H)

F calls line 3034010 on G while Unified CM has line 3034010 on G configured with Call Forward No Answer to C after 5 seconds. G does not answer within 5 seconds and the call is forwarded to H.

Notice the "Diversion:" header in the INVITE to H. It uses "no-answer" to indicate Call Forward No Answer.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = F, Line = 3033100, IP = 5.5.5.226, Model = SIP Basic

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Scenario:

3033100 calls 3034010

3034010 rings for about 5 seconds but is not answered

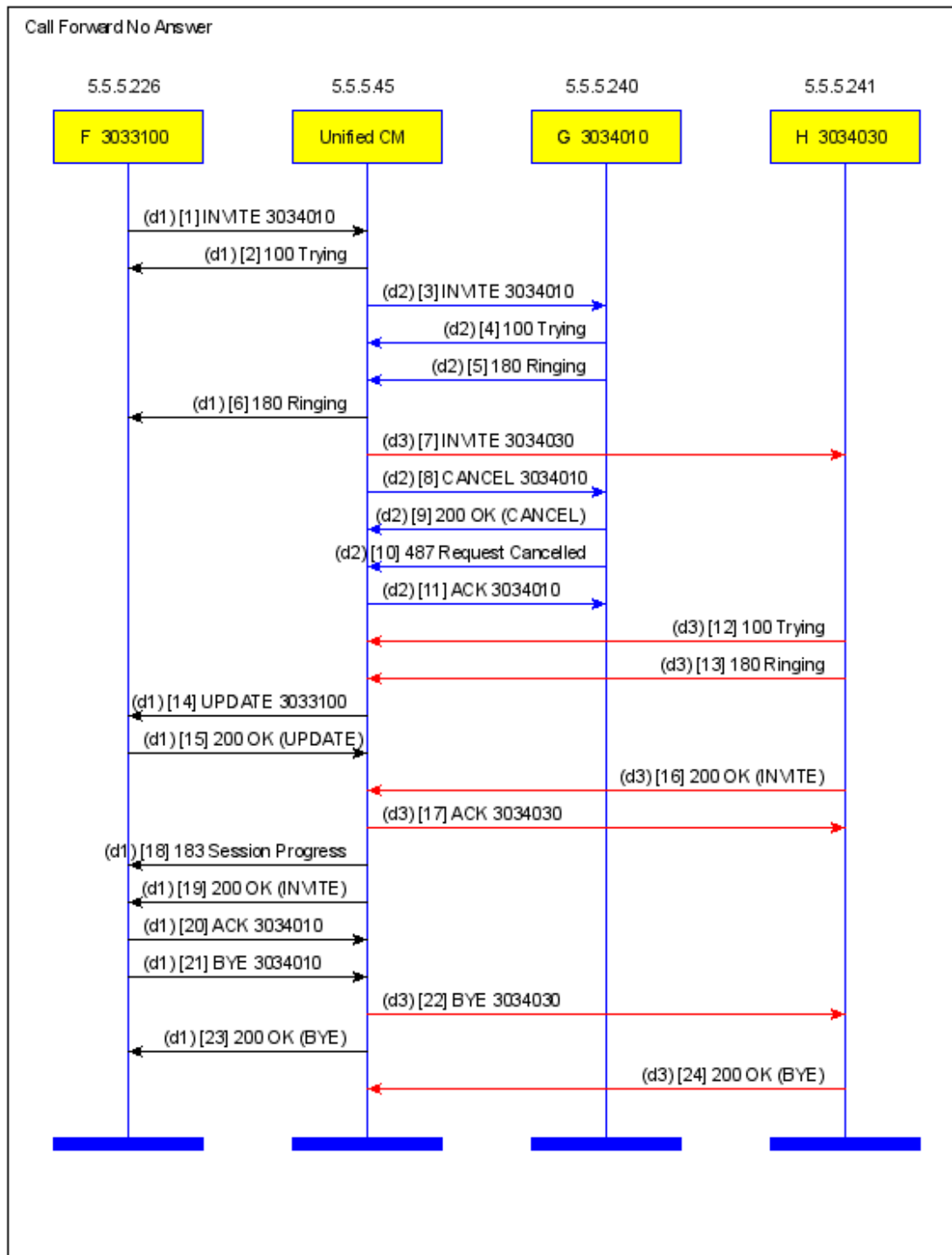
3034030 rings

The call to 3034010 is cancelled

3034030 answers

3033100 and 3034030 are connected

3033100 goes onhook



[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[1] INVITE sip:3034010@titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK05c9ad4c
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000c1291c65c-7619b0cd
 To: <sip:3034010@titan-pub>
 Call-ID: 000ab8f5-aadf0007-6ee2fba6-48289b23@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/8.0
 Contact: <sip:3033100@5.5.5.226:5060;transport=udp>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "Tripti" <sip:3033100@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 270
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 17890 0 IN IP4 5.5.5.226
 s=SIP Call
 t=0 0
 m=audio 16432 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.226
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=fmtp:18 annexb=no
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK05c9ad4c
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000c1291c65c-7619b0cd
 To: <sip:3034010@titan-pub>
 Date: Wed, 06 Jan 2010 19:47:28 GMT
 Call-ID: 000ab8f5-aadf0007-6ee2fba6-48289b23@5.5.5.226
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[3] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0819ff54b5
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944871
 To: <sip:3034010@5.5.5.240>
 Date: Wed, 06 Jan 2010 19:47:28 GMT
 Call-ID: 50a78d80-b441e8d0-1204-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034010@5.5.5.45:5060>
 Remote-Party-ID: "Tripti" <sip:3033100@5.5.5.45;x-cisco-callback-number=3033100>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0819ff54b5
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944871
 To: <sip:3034010@5.5.5.240>
 Call-ID: 50a78d80-b441e8d0-1204-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:47:28 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0819ff54b5
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944871
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f000a5739d990-087cfb8b
 Call-ID: 50a78d80-b441e8d0-1204-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:47:28 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK05c9ad4c
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000c1291c65c-7619b0cd
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944870
 Date: Wed, 06 Jan 2010 19:47:28 GMT
 Call-ID: 000ab8f5-aadf0007-6ee2fba6-48289b23@5.5.5.226
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034010@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034010 Alertingname" <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0949191cb9
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944874
 To: <sip:3034030@5.5.5.241>
 Date: Wed, 06 Jan 2010 19:47:33 GMT
 Call-ID: 53a27e00-b441e8d5-1205-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Diversion: "3034010 Alertingname" <sip:3034010@5.5.5.45>;reason=no-answer;privacy=off;screen=yes
 Remote-Party-ID: "Tripti" <sip:3033100@5.5.5.45;x-cisco-callback-number=3033100>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] CANCEL sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0819ff54b5
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944871
 To: <sip:3034010@5.5.5.240>
 Date: Wed, 06 Jan 2010 19:47:28 GMT
 Call-ID: 50a78d80-b441e8d0-1204-2d050505@5.5.5.45
 CSeq: 101 CANCEL
 Max-Forwards: 70
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[9] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0819ff54b5
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944871
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f000a5739d990-087cfb8b
 Call-ID: 50a78d80-b441e8d0-1204-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:47:34 GMT
 CSeq: 101 CANCEL
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[10] SIP/2.0 487 Request Cancelled

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0819ff54b5
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944871
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f000a5739d990-087cfb8b
 Call-ID: 50a78d80-b441e8d0-1204-2d050505@5.5.5.45

Date: Wed, 06 Jan 2010 19:47:34 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[11] ACK sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0819ff54b5
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944871
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f000a5739d990-087cfb8b
 Date: Wed, 06 Jan 2010 19:47:28 GMT
 Call-ID: 50a78d80-b441e8d0-1204-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[12] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0949191cb9
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944874
 To: <sip:3034030@5.5.5.241>
 Call-ID: 53a27e00-b441e8d5-1205-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:47:34 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[13] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0949191cb9
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944874
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c7d17b2c8-6378c8c9
 Call-ID: 53a27e00-b441e8d5-1205-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:47:34 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[14] UPDATE sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0a20764eed
 From: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944870
 To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000c1291c65c-7619b0cd
 Date: Wed, 06 Jan 2010 19:47:28 GMT
 Call-ID: 000ab8f5-aadf0007-6ee2fba6-48289b23@5.5.5.226
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 Supported: timer,resource-priority,replaces
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 UPDATE
 Contact: <sip:3034010@5.5.5.45:5060>
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0a20764eed
 From: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944870
 To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000c1291c65c-7619b0cd
 Call-ID: 000ab8f5-aadf0007-6ee2fba6-48289b23@5.5.5.226
 CSeq: 101 UPDATE
 Server: Cisco-CP7960G/8.0
 Contact: <sip:3033100@5.5.5.226:5060;transport=udp>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[16] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0949191cb9
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944874

To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c7d17b2c8-6378c8c9
 Call-ID: 53a27e00-b441e8d5-1205-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:47:40 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4262 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 20894 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[17] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0b6ad0fdb
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944874
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c7d17b2c8-6378c8c9
 Date: Wed, 06 Jan 2010 19:47:33 GMT
 Call-ID: 53a27e00-b441e8d5-1205-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.226
 t=0 0
 m=audio 16432 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[18] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK05c9ad4c
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000c1291c65c-7619b0cd
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944870
 Date: Wed, 06 Jan 2010 19:47:28 GMT
 Call-ID: 000ab8f5-aadf0007-6ee2fba6-48289b23@5.5.5.226
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034010@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 20894 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[19] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK05c9ad4c

From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000c1291c65c-7619b0cd
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944870
 Date: Wed, 06 Jan 2010 19:47:28 GMT
 Call-ID: 000ab8f5-aadf0007-6ee2fba6-48289b23@5.5.5.226
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034010@5.5.5.45:5060>
 Supported: replaces
 Send-Info: conference
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 20894 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]
[20] ACK sip:3034010@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK7da4a757
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000c1291c65c-7619b0cd
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944870
 Call-ID: 000ab8f5-aadf0007-6ee2fba6-48289b23@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 ACK
 User-Agent: Cisco-CP7960G/8.0
 Remote-Party-ID: "Tripti" <sip:3033100@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]
[21] BYE sip:3034010@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK54ac994a
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000c1291c65c-7619b0cd
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944870
 Call-ID: 000ab8f5-aadf0007-6ee2fba6-48289b23@5.5.5.226
 Max-Forwards: 70
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/8.0
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]
[22] BYE sip:3034030@5.5.5.241:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0c3b5bff90
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944874
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c7d17b2c8-6378c8c9
 Date: Wed, 06 Jan 2010 19:47:33 GMT
 Call-ID: 53a27e00-b441e8d5-1205-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 102 BYE
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]
[23] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK54ac994a
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000c1291c65c-7619b0cd
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944870
 Date: Wed, 06 Jan 2010 19:47:42 GMT
 Call-ID: 000ab8f5-aadf0007-6ee2fba6-48289b23@5.5.5.226
 CSeq: 102 BYE
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]
[24] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f0c3b5bff90
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944874
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c7d17b2c8-6378c8c9
 Call-ID: 53a27e00-b441e8d5-1205-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:47:43 GMT
 CSeq: 102 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

6.3 Call Forward Busy

Title: Call Forward Busy

Description:

(F ---> H,
G ---> H --CFB--> L)

Line 3033100 on phone F is used to call line 3034030 on Phone H and establish a connection (making 3034030 "busy").

Phone G calls line 3034030 on H while Unified CM has line 3034030 on H configured to forward to L when one call is already active on that line (i.e. busy trigger = 1).

Notice the "Diversion:" header in the INVITE to L. It uses "user-busy" to indicate Call Forward Busy.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = F, Line = 3033100, IP = 5.5.5.226, Model = SIP Basic

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Phone = L, Line = 3034040, IP = 5.5.5.242, Model = SIP Basic

Scenario:

3033100 calls 3034030

3034030 answers

3034030 and 3033100 are connected (3034030 is now "busy")

3034010 calls 3034030

3034030 never gets ringing for this call (Unified CM forwards due to busy)

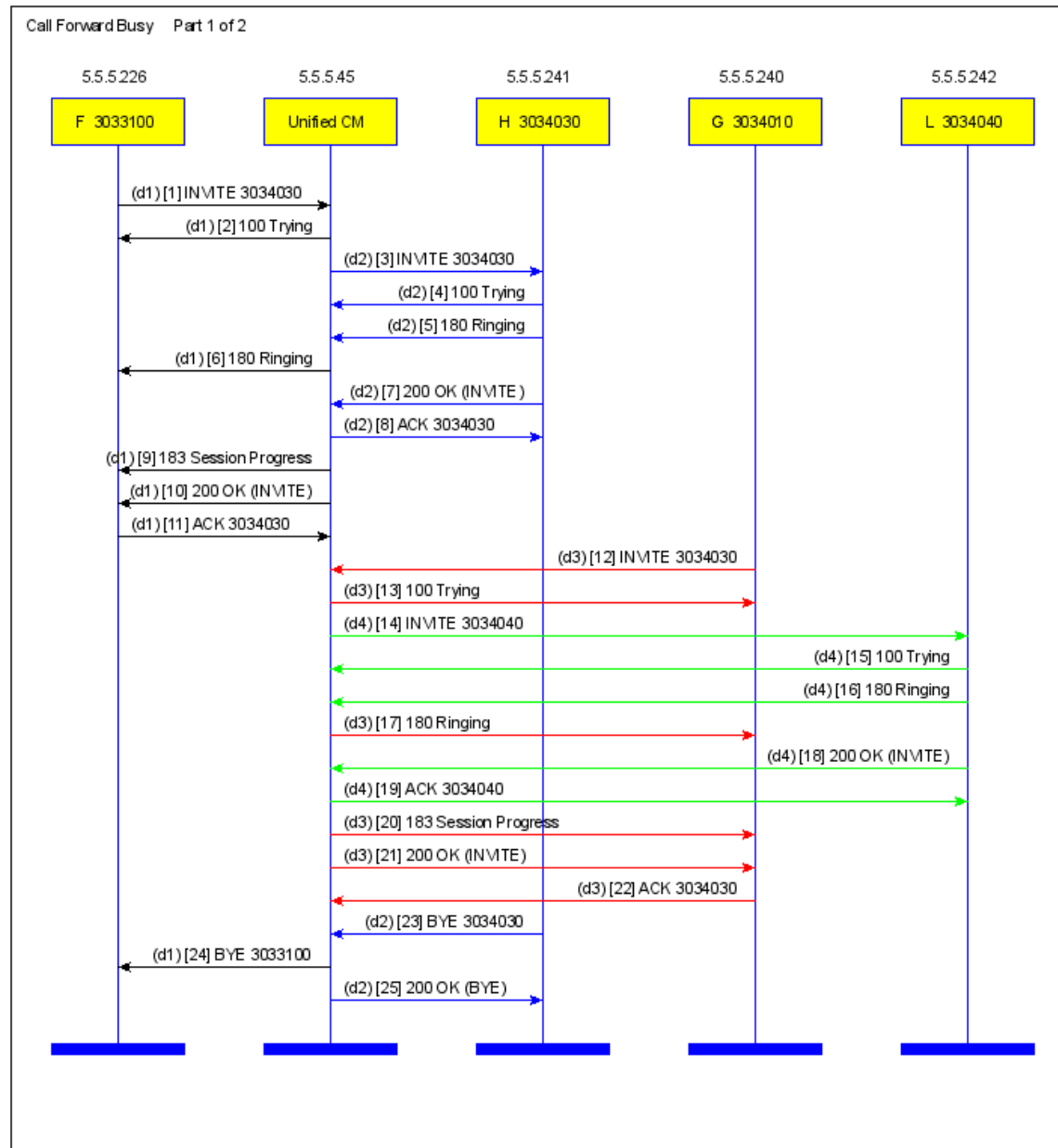
3034040 rings

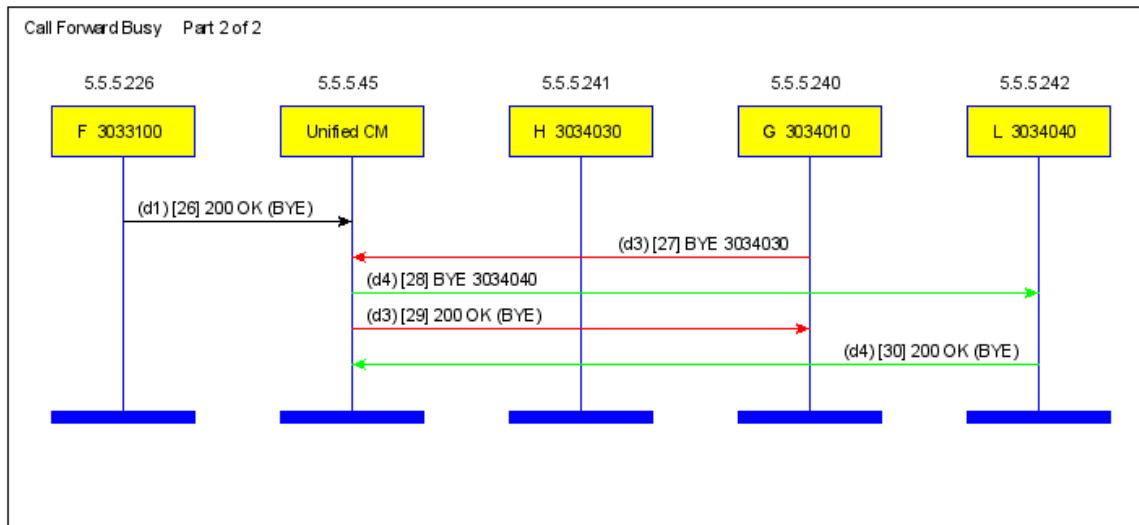
3034040 answers

3034010 and 3034040 are connected

3034030 goes onhook to drop 3033100

3034010 goes onhook to drop 3034040





[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034030@titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK3f381f3f
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d36ac5d6a-1a0d7fc0
 To: <sip:3034030@titan-pub>
 Call-ID: 000ab8f5-aadf0008-2cf85267-5c17bb46@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/8.0
 Contact: <sip:3033100@5.5.5.226:5060;transport=udp>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "Tripti" <sip:3033100@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 270
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 13011 0 IN IP4 5.5.5.226
 s=SIP Call
 t=0 0
 m=audio 19972 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.226
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=fmtp:18 annexb=no
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK3f381f3f
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d36ac5d6a-1a0d7fc0
 To: <sip:3034030@titan-pub>
 Date: Wed, 06 Jan 2010 19:30:06 GMT
 Call-ID: 000ab8f5-aadf0008-2cf85267-5c17bb46@5.5.5.226
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef5337cac70
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944858
 To: <sip:3034030@5.5.5.241>
 Date: Wed, 06 Jan 2010 19:30:06 GMT
 Call-ID: e392f880-b441e4be-11f6-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "Tripti" <sip:3033100@5.5.5.45;x-cisco-callback-number=3033100>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef5337cac70
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944858
 To: <sip:3034030@5.5.5.241>
 Call-ID: e392f880-b441e4be-11f6-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:30:06 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef5337cac70
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944858
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c302f5161-348c0cb0
 Call-ID: e392f880-b441e4be-11f6-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:30:06 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK3f381f3f
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d36ac5d6a-1a0d7fc0
 To: <sip:3034030@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944857
 Date: Wed, 06 Jan 2010 19:30:06 GMT
 Call-ID: 000ab8f5-aadf0008-2cf85267-5c17bb46@5.5.5.226
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef5337cac70
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944858
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c302f5161-348c0cb0
 Call-ID: e392f880-b441e4be-11f6-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:30:07 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 18430 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 22128 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef6237c7833
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944858
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c302f5161-348c0cb0
 Date: Wed, 06 Jan 2010 19:30:06 GMT
 Call-ID: e392f880-b441e4be-11f6-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.226
 t=0 0
 m=audio 19972 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20

a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK3f381f3f
From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d36ac5d6a-1a0d7fc0
To: <sip:3034030@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944857
Date: Wed, 06 Jan 2010 19:30:06 GMT
Call-ID: 000ab8f5-aadf0008-2cf85267-5c17bb46@5.5.5.226
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 22128 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK3f381f3f
From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d36ac5d6a-1a0d7fc0
To: <sip:3034030@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944857
Date: Wed, 06 Jan 2010 19:30:06 GMT
Call-ID: 000ab8f5-aadf0008-2cf85267-5c17bb46@5.5.5.226
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 22128 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK7e486e5c
From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d36ac5d6a-1a0d7fc0
To: <sip:3034030@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944857
Call-ID: 000ab8f5-aadf0008-2cf85267-5c17bb46@5.5.5.226
Max-Forwards: 70
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/8.0
Remote-Party-ID: "Tripti" <sip:3033100@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3c1e8507
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00092eebe79b-4e28ab39
To: <sip:3034030@5.5.5.45>
Call-ID: 001a2f8d-f17f0005-58c30e85-733f0bc5@5.5.5.240
Max-Forwards: 70
Date: Wed, 06 Jan 2010 19:30:16 GMT
CSeq: 101 INVITE
User-Agent: Cisco-CP7960G/7.5

Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4767 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 20738 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[13] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3c1e8507
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00092eebe79b-4e28ab39
 To: <sip:3034030@5.5.5.45>
 Date: Wed, 06 Jan 2010 19:30:17 GMT
 Call-ID: 001a2f8d-f17f0005-58c30e85-733f0bc5@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[14] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef7438ee06e
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944864
 To: <sip:3034040@5.5.5.242>
 Date: Wed, 06 Jan 2010 19:30:17 GMT
 Call-ID: ea217000-b441e4c9-11f7-2d050505@5.5.5.45
 Supported: timer, resource-priority, replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034040@5.5.5.45:5060>
 Diversion: "3034030 Alertingname" <sip:3034030@5.5.5.45>;reason=user-busy;privacy=off;screen=yes
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[15] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef7438ee06e
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944864
 To: <sip:3034040@5.5.5.242>
 Call-ID: ea217000-b441e4c9-11f7-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:30:18 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[16] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef7438ee06e
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944864
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0009397d6c25-5f16e31a
 Call-ID: ea217000-b441e4c9-11f7-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:30:18 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5

Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[17] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3c1e8507
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00092eebe79b-4e28ab39
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944860
 Date: Wed, 06 Jan 2010 19:30:17 GMT
 Call-ID: 001a2f8d-f17f0005-58c30e85-733f0bc5@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[18] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef7438ee06e
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944864
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0009397d6c25-5f16e31a
 Call-ID: ea217000-b441e4c9-11f7-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:30:20 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 247
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 629 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 24988 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.242
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[19] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef840723bc6
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944864
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0009397d6c25-5f16e31a
 Date: Wed, 06 Jan 2010 19:30:17 GMT
 Call-ID: ea217000-b441e4c9-11f7-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 20738 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[20] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3c1e8507
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00092eebe79b-4e28ab39
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944860
 Date: Wed, 06 Jan 2010 19:30:17 GMT

Call-ID: 001a2f8d-f17f0005-58c30e85-733f0bc5@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 24988 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[21] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3c1e8507
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00092eebe79b-4e28ab39
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944860
 Date: Wed, 06 Jan 2010 19:30:17 GMT
 Call-ID: 001a2f8d-f17f0005-58c30e85-733f0bc5@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Supported: replaces
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 24988 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[22] ACK sip:3034030@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK6d41ec8d
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00092eebe79b-4e28ab39
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944860
 Call-ID: 001a2f8d-f17f0005-58c30e85-733f0bc5@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 19:30:19 GMT
 CSeq: 101 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[23] BYE sip:3034030@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK4c614d8c
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c302f5161-348c0cb0
 To: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944858
 Call-ID: e392f880-b441e4be-11f6-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 19:30:32 GMT
 CSeq: 101 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[24] BYE sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef936f4a7ce
 From: <sip:3034030@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944857
 To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d36ac5d6a-1a0d7fc0
 Date: Wed, 06 Jan 2010 19:30:08 GMT

Call-ID: 000ab8f5-aadf0008-2cf85267-5c17bb46@5.5.5.226
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 101 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[25] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK4c614d8c
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c302f5161-348c0cb0
 To: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944858
 Date: Wed, 06 Jan 2010 19:30:33 GMT
 Call-ID: e392f880-b441e4be-11f6-2d050505@5.5.5.45
 CSeq: 101 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[26] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1ef936f4a7ce
 From: <sip:3034030@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944857
 To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d36ac5d6a-1a0d7fc0
 Call-ID: 000ab8f5-aadf0008-2cf85267-5c17bb46@5.5.5.226
 CSeq: 101 BYE
 Server: Cisco-CP7960G/8.0
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[27] BYE sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5d12ad59
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00092eebe79b-4e28ab39
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944860
 Call-ID: 001a2f8d-f17f0005-58c30e85-733f0bc5@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 06 Jan 2010 19:30:34 GMT
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[28] BYE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1efa74e4e068
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944864
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0009397d6c25-5f16e31a
 Date: Wed, 06 Jan 2010 19:30:17 GMT
 Call-ID: ea217000-b441e4c9-11f7-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[29] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5d12ad59
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00092eebe79b-4e28ab39
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944860
 Date: Wed, 06 Jan 2010 19:30:36 GMT
 Call-ID: 001a2f8d-f17f0005-58c30e85-733f0bc5@5.5.5.240
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[30] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1efa74e4e068
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27944864
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0009397d6c25-5f16e31a
 Call-ID: ea217000-b441e4c9-11f7-2d050505@5.5.5.45
 Date: Wed, 06 Jan 2010 19:30:36 GMT
 CSeq: 102 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

6.4 Call Forward Two Hops

Title: Call Forward Two Hops

Description:

F ----> G ---CFA---> H ---CFNA---> L

To demonstrate multiple diversion headers, set up a call forwarding call with two intermediate phones.

1. F calls line 3034010 on G which Unified CM has configured for Call Forward All to 3034030 on phone H.
2. Line 3034030 on phone H will ring but has Call Forward No Answer configured to forward to line 3034040 on phone L after 5 seconds.
3. Phone H does not answer within 5 seconds and the call is forwarded to L.

Notice the "Diversion:" header in the INVITE to H. This should be identical to the Call Forward All scenario.

Notice the two "Diversion:" headers in the INVITE to L. The first indicates the "no-answer" forwarding from H and the second indicates the "unconditional" forwarding from G.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = F, Line = 3033100, IP = 5.5.5.226, Model = SIP Basic

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Phone = L, Line = 3034040, IP = 5.5.5.242, Model = SIP Basic

Scenario:

3033100 calls 3034010

3034010 does not ring for Call Forward All

3034030 rings for about 5 seconds but is not answered

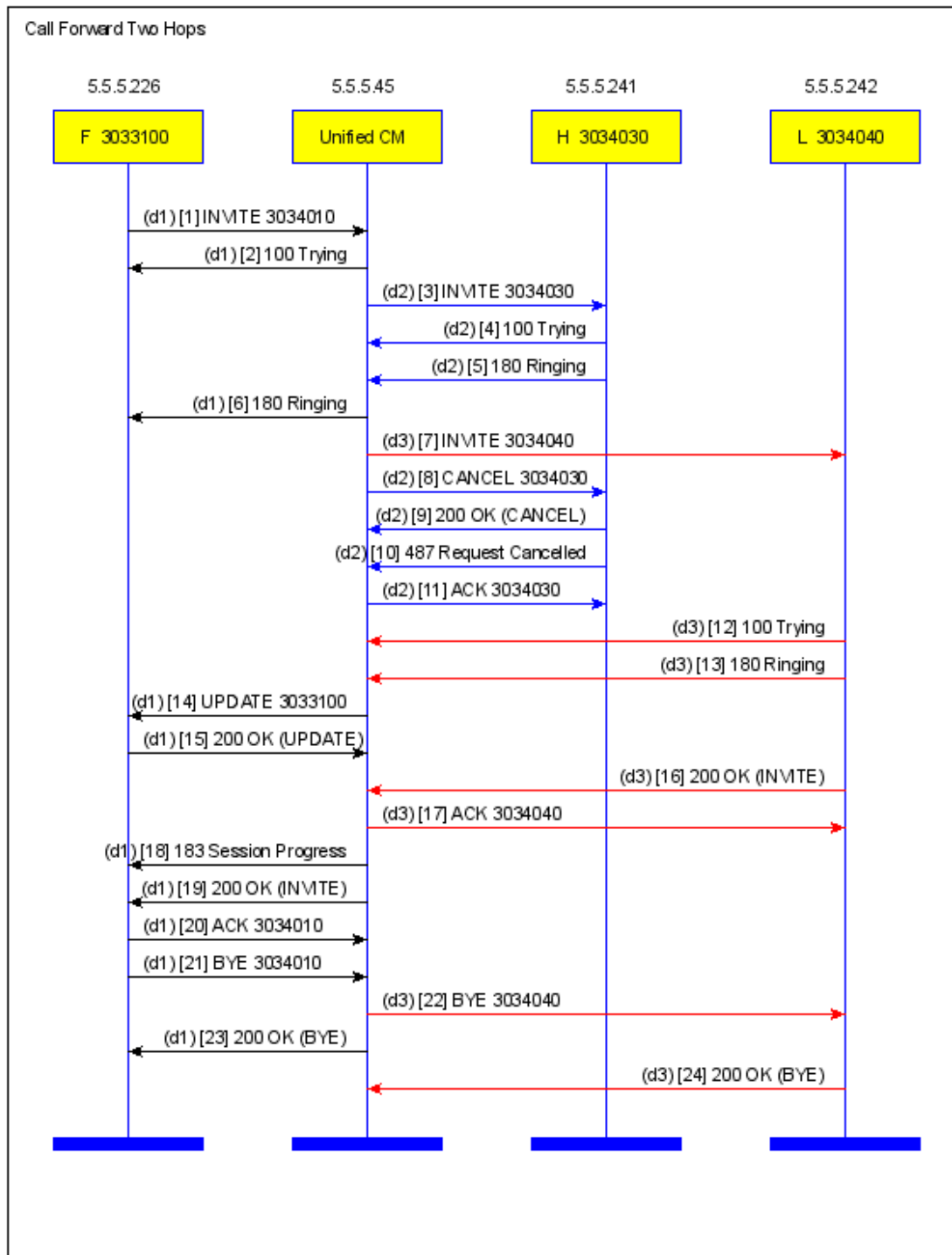
3034040 rings

The call to 3034030 is cancelled

3034040 answers

3033100 and 3034040 are connected

3033100 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034010@titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK724d03ac
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002939d608ad-413346be
 To: <sip:3034010@titan-pub>
 Call-ID: 000ab8f5-aadf001b-2a966090-7edb6fda@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/8.0
 Contact: <sip:3033100@5.5.5.226:5060;transport=udp>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "Tripti" <sip:3033100@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 270
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 18303 0 IN IP4 5.5.5.226
 s=SIP Call
 t=0 0
 m=audio 26562 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.226
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=fmtp:18 annexb=no
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK724d03ac
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002939d608ad-413346be
 To: <sip:3034010@titan-pub>
 Date: Tue, 19 Jan 2010 23:02:07 GMT
 Call-ID: 000ab8f5-aadf001b-2a966090-7edb6fda@5.5.5.226
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8335f342234
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454918
 To: <sip:3034030@5.5.5.241>
 Date: Tue, 19 Jan 2010 23:02:07 GMT
 Call-ID: a9404700-b56139ef-81e-2d050505@5.5.5.45
 Supported: timer, resource-priority, replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Diversion: "3034010 Alertingname" <sip:3034010@5.5.5.45>;reason=unconditional;privacy=off;screen=yes
 Remote-Party-ID: "Tripti" <sip:3033100@5.5.5.45;x-cisco-callback-number=3033100>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8335f342234
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454918
 To: <sip:3034030@5.5.5.241>
 Call-ID: a9404700-b56139ef-81e-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:02:08 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8335f342234
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454918
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6001833f23138-3b3e59d4
 Call-ID: a9404700-b56139ef-81e-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:02:08 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK724d03ac
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002939d608ad-413346be
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454915
 Date: Tue, 19 Jan 2010 23:02:07 GMT
 Call-ID: 000ab8f5-aadf001b-2a966090-7edb6fda@5.5.5.226
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034010@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK834626e6b9b
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454921
 To: <sip:3034040@5.5.5.242>
 Date: Tue, 19 Jan 2010 23:02:20 GMT
 Call-ID: b0ffeb80-b56139fc-81f-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034040@5.5.5.45:5060>
 Diversion: "3034030 Alertingname" <sip:3034030@5.5.5.45>;reason=no-answer;privacy=off;screen=yes
 Diversion: "3034010 Alertingname" <sip:3034010@5.5.5.45>;reason=unconditional;privacy=off;screen=yes
 Remote-Party-ID: "Tripti" <sip:3033100@5.5.5.45;x-cisco-callback-number=3033100>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] CANCEL sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8335f342234
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454918
 To: <sip:3034030@5.5.5.241>
 Date: Tue, 19 Jan 2010 23:02:07 GMT
 Call-ID: a9404700-b56139ef-81e-2d050505@5.5.5.45
 CSeq: 101 CANCEL
 Max-Forwards: 70
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[9] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8335f342234
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454918
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6001833f23138-3b3e59d4
 Call-ID: a9404700-b56139ef-81e-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:02:20 GMT
 CSeq: 101 CANCEL
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[10] SIP/2.0 487 Request Cancelled

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8335f342234
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454918
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6001833f23138-3b3e59d4

Call-ID: a9404700-b56139ef-81e-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:02:20 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[11] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8335f342234
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454918
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6001833f23138-3b3e59d4
 Date: Tue, 19 Jan 2010 23:02:07 GMT
 Call-ID: a9404700-b56139ef-81e-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[12] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK834626e6b9b
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454921
 To: <sip:3034040@5.5.5.242>
 Call-ID: b0ffeb80-b56139fc-81f-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:02:20 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[13] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK834626e6b9b
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454921
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00170d989092-138a1d5b
 Call-ID: b0ffeb80-b56139fc-81f-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:02:20 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[14] UPDATE sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8352ead0983
 From: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454915
 To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002939d608ad-413346be
 Date: Tue, 19 Jan 2010 23:02:07 GMT
 Call-ID: 000ab8f5-aadf001b-2a966090-7edb6fda@5.5.5.226
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 Supported: timer,resource-priority,replaces
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 UPDATE
 Contact: <sip:3034010@5.5.5.45:5060>
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8352ead0983
 From: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454915
 To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002939d608ad-413346be
 Call-ID: 000ab8f5-aadf001b-2a966090-7edb6fda@5.5.5.226
 CSeq: 101 UPDATE
 Server: Cisco-CP7960G/8.0
 Contact: <sip:3033100@5.5.5.226:5060;transport=udp>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[16] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK834626e6b9b

```

From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454921
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00170d989092-138a1d5b
Call-ID: b0ffeb80-b56139fc-81f-2d050505@5.5.5.45
Date: Tue, 19 Jan 2010 23:02:29 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034040@5.5.5.242:5060>
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Supported: replaces
Content-Length: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional

```

```

v=0
o=Cisco-SIPUA 17099 0 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 31212 RTP/AVP 0 8 18 101
c=IN IP4 5.5.5.242
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:18 G729/8000
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[17] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK836a35d760
From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454921
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00170d989092-138a1d5b
Date: Tue, 19 Jan 2010 23:02:20 GMT
Call-ID: b0ffeb80-b56139fc-81f-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 101 ACK
Allow-Events: presence
Content-Type: application/sdp
Content-Length: 205

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.226
t=0 0
m=audio 26562 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[18] SIP/2.0 183 Session Progress

```

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK724d03ac
From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002939d608ad-413346be
To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454915
Date: Tue, 19 Jan 2010 23:02:07 GMT
Call-ID: 000ab8f5-aadf001b-2a966090-7edb6fda@5.5.5.226
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034010@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 31212 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[19] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK724d03ac
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002939d608ad-413346be
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454915
 Date: Tue, 19 Jan 2010 23:02:07 GMT
 Call-ID: 000ab8f5-aadf001b-2a966090-7edb6fda@5.5.5.226
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034010@5.5.5.45:5060>
 Supported: replaces
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 31212 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[20] ACK sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK4be813b6
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002939d608ad-413346be
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454915
 Call-ID: 000ab8f5-aadf001b-2a966090-7edb6fda@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 ACK
 User-Agent: Cisco-CP7960G/8.0
 Remote-Party-ID: "Tripti" <sip:3033100@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[21] BYE sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK35ff423f
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002939d608ad-413346be
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454915
 Call-ID: 000ab8f5-aadf001b-2a966090-7edb6fda@5.5.5.226
 Max-Forwards: 70
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/8.0
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[22] BYE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK83744d720ae
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454921
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00170d989092-138a1d5b
 Date: Tue, 19 Jan 2010 23:02:20 GMT
 Call-ID: b0ffeb80-b56139fc-81f-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[23] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK35ff423f
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf002939d608ad-413346be
 To: <sip:3034010@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454915
 Date: Tue, 19 Jan 2010 23:02:33 GMT
 Call-ID: 000ab8f5-aadf001b-2a966090-7edb6fda@5.5.5.226
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[24] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK83744d720ae
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454921
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00170d989092-138a1d5b
 Call-ID: b0ffeb80-b56139fc-81f-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:02:34 GMT
 CSeq: 102 BYE
 Server: Cisco-CP7960G/7.5

Content-Length: 0

6.5 302 Redirect

Title: 302 Redirect

Description:

If a SIP Basic or Cisco SIP Pre-Generation 3 phone is configured for call forward all via the phone softkeys, there is no synchronization with the Unified CM. The phone handles the forwarding locally using a 302 redirect.

For this example, assume that line 3034030 on phone H has call forward all configured such that a 302 redirect to 3034040 will be sent when it receives an INVITE.

Line 3034010 on phone A calls line 3034030 on B. The call will be forwarded, via 302, to 3034040 on C.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Phone = L, Line = 3034040, IP = 5.5.5.242, Model = SIP Basic

Scenario:

3034010 calls 3034030

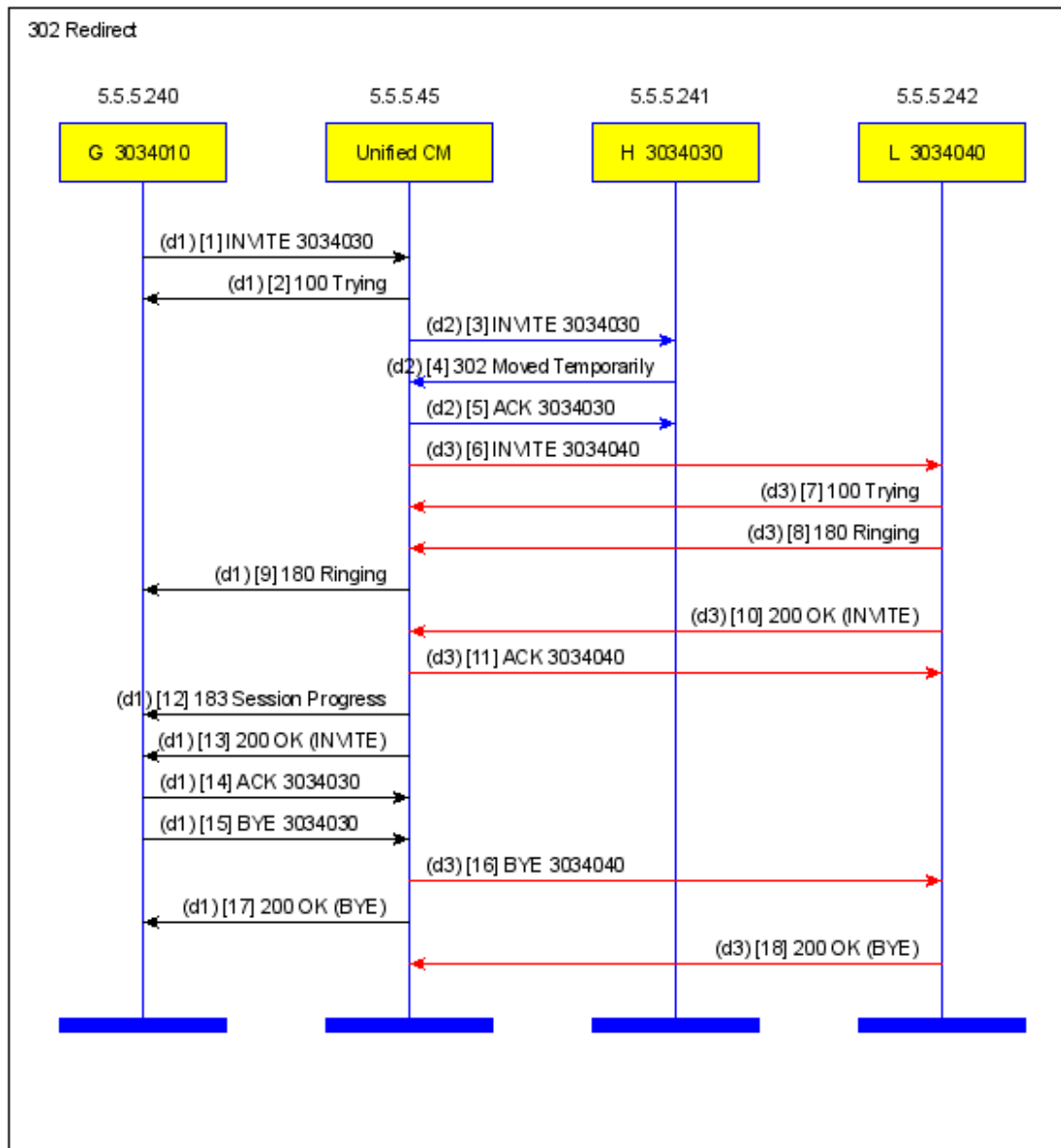
3034030 responds with "302 Moved Temporarily"

3034040 rings

3034040 answers

3034010 and 3034040 are connected

3034010 goes onhook



[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[1] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1b35df69
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00084692f4dc-6d562bee
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-415b5c98-538e414d@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 19 Jan 2010 23:43:38 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4574 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 16642 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1b35df69
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00084692f4dc-6d562bee
 To: <sip:3034030@5.5.5.45>
 Date: Tue, 19 Jan 2010 23:43:38 GMT
 Call-ID: 001a2f8d-f17f0004-415b5c98-538e414d@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8487ffe0b02
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454927
 To: <sip:3034030@5.5.5.241>
 Date: Tue, 19 Jan 2010 23:43:38 GMT
 Call-ID: 7600b680-b56143aa-82c-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[4] SIP/2.0 302 Moved Temporarily

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8487ffe0b02
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454927
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a695c378d-755b4dc5
 Call-ID: 7600b680-b56143aa-82c-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:43:37 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.45:5060>
 Diversion: <sip:3034040@5.5.5.45:5060>;reason=unconditional
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8487ffe0b02

From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454927

To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a695c378d-755b4dc5

Date: Tue, 19 Jan 2010 23:43:38 GMT

Call-ID: 7600b680-b56143aa-82c-2d050505@5.5.5.45

Max-Forwards: 70

CSeq: 101 ACK

Allow-Events: presence

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK84958f8dde5

From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454929

To: <sip:3034040@5.5.5.242>

Date: Tue, 19 Jan 2010 23:43:38 GMT

Call-ID: 7600b680-b56143aa-82d-2d050505@5.5.5.45

Supported: timer,resource-priority,replaces

Min-SE: 1800

User-Agent: Cisco-CUCM8.0

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

CSeq: 101 INVITE

Expires: 180

Allow-Events: presence

Send-Info: conference

Alert-Info: <file://Bellcore-dr1/>

Contact: <sip:3034040@5.5.5.45:5060>

Diversion: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;reason=unconditional;privacy=off;screen=yes

Diversion: "3034030 Alertingname" <sip:3034030@5.5.5.45>;reason=unconditional;privacy=off;screen=yes

Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-

number=3034010>;party=calling;screen=yes;privacy=off

Max-Forwards: 69

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK84958f8dde5

From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454929

To: <sip:3034040@5.5.5.242>

Call-ID: 7600b680-b56143aa-82d-2d050505@5.5.5.45

Date: Tue, 19 Jan 2010 23:43:39 GMT

CSeq: 101 INVITE

Server: Cisco-CP7960G/7.5

Contact: <sip:3034040@5.5.5.242:5060>

Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE

Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK84958f8dde5

From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454929

To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00086d7b0db3-7a6e48cc

Call-ID: 7600b680-b56143aa-82d-2d050505@5.5.5.45

Date: Tue, 19 Jan 2010 23:43:39 GMT

CSeq: 101 INVITE

Server: Cisco-CP7960G/7.5

Contact: <sip:3034040@5.5.5.242:5060>

Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE

Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[9] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1b35df69

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00084692f4dc-6d562bee

To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454926

Date: Tue, 19 Jan 2010 23:43:38 GMT

Call-ID: 001a2f8d-f17f0004-415b5c98-538e414d@5.5.5.240

CSeq: 101 INVITE

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

Allow-Events: presence

Contact: <sip:3034030@5.5.5.45:5060>

Send-Info: conference

Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK84958f8dde5
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454929
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00086d7b0db3-7a6e48cc
 Call-ID: 7600b680-b56143aa-82d-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:43:44 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 15484 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 28856 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.242
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[11] ACK sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK84a1414ba4c
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454929
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00086d7b0db3-7a6e48cc
 Date: Tue, 19 Jan 2010 23:43:38 GMT
 Call-ID: 7600b680-b56143aa-82d-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 16642 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[12] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1b35df69
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00084692f4dc-6d562bee
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454926
 Date: Tue, 19 Jan 2010 23:43:38 GMT
 Call-ID: 001a2f8d-f17f0004-415b5c98-538e414d@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 28856 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1b35df69
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00084692f4dc-6d562bee
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454926
 Date: Tue, 19 Jan 2010 23:43:38 GMT
 Call-ID: 001a2f8d-f17f0004-415b5c98-538e414d@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Supported: replaces
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 28856 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK6199d16f
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00084692f4dc-6d562bee
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454926
 Call-ID: 001a2f8d-f17f0004-415b5c98-538e414d@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 19 Jan 2010 23:43:44 GMT
 CSeq: 101 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] BYE sip:3034030@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK08245e03
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00084692f4dc-6d562bee
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454926
 Call-ID: 001a2f8d-f17f0004-415b5c98-538e414d@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 19 Jan 2010 23:43:49 GMT
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[16] BYE sip:3034040@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK84b286699c7
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454929
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00086d7b0db3-7a6e48cc
 Date: Tue, 19 Jan 2010 23:43:38 GMT
 Call-ID: 7600b680-b56143aa-82d-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[17] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK08245e03
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00084692f4dc-6d562bee
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454926
 Date: Tue, 19 Jan 2010 23:43:49 GMT
 Call-ID: 001a2f8d-f17f0004-415b5c98-538e414d@5.5.5.240
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[18] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK84b286699c7
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454929

To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00086d7b0db3-7a6e48cc
Call-ID: 7600b680-b56143aa-82d-2d050505@5.5.5.45
Date: Tue, 19 Jan 2010 23:43:49 GMT
CSeq: 102 BYE
Server: Cisco-CP7960G/7.5
Content-Length: 0

7. Call Forking

7.1 Call Forking

Title: Call Forking

Description:

A SIP Basic phone make a call to a DN which exists on two other SIP Basic phones.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = H, Line = 3034050, IP = 5.5.5.241, Model = SIP Basic

Phone = L, Line = 3034050, IP = 5.5.5.242, Model = SIP Basic

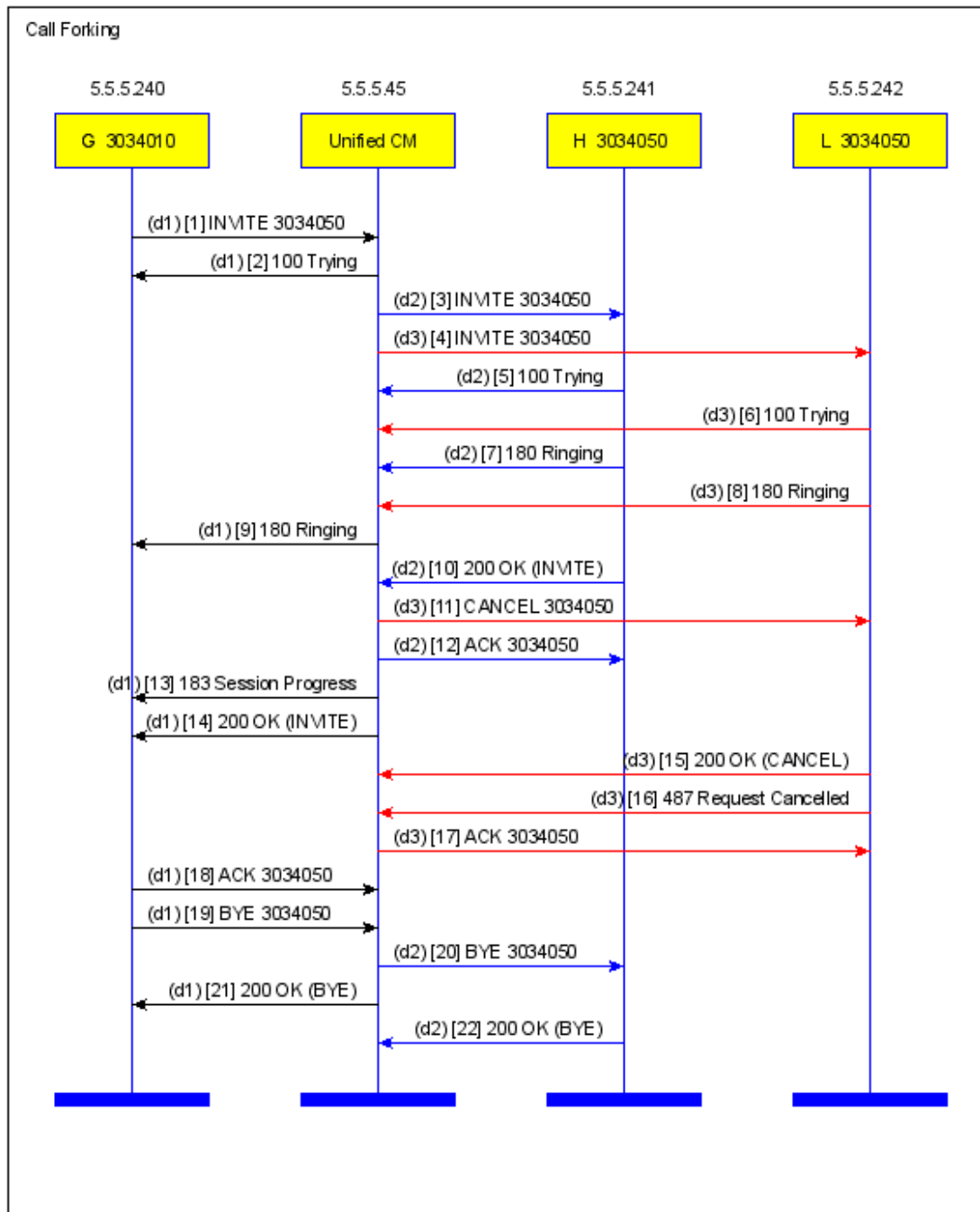
Scenario:

3034010 dials 3034050

H.3034050 and L.3034050 rings

H.3034050 answers

3034010 goes onhook



[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[1] INVITE sip:3034050@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK70c6ee0b
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000513cac8e0-076dee46
 To: <sip:3034050@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-1ac96a14-23763234@5.5.5.240
 Max-Forwards: 70
 Date: Fri, 22 Jan 2010 18:23:30 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 18688 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 28280 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK70c6ee0b
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000513cac8e0-076dee46
 To: <sip:3034050@5.5.5.45>
 Date: Fri, 22 Jan 2010 18:23:30 GMT
 Call-ID: 001a2f8d-f17f0004-1ac96a14-23763234@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[3] INVITE sip:3034050@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9c42a15be8
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
 To: <sip:3034050@5.5.5.241>
 Date: Fri, 22 Jan 2010 18:23:30 GMT
 Call-ID: 3c61c280-b591ed22-9cb-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034050@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[4] INVITE sip:3034050@5.5.5.242:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9d71a27d8
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
 To: <sip:3034050@5.5.5.242>
 Date: Fri, 22 Jan 2010 18:23:30 GMT
 Call-ID: 3c61c280-b591ed22-9cc-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence

Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034050@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9c42a15be8
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
 To: <sip:3034050@5.5.5.241>
 Call-ID: 3c61c280-b591ed22-9cb-2d050505@5.5.5.45
 Date: Fri, 22 Jan 2010 18:23:29 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034050@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034050" <sip:3034050@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9d71a27d8
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
 To: <sip:3034050@5.5.5.242>
 Call-ID: 3c61c280-b591ed22-9cc-2d050505@5.5.5.45
 Date: Fri, 22 Jan 2010 18:23:28 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034050@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034050" <sip:3034050@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9c42a15be8
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
 To: <sip:3034050@5.5.5.241>;tag=001a2fcb77d600075a9a9dfb-676ea195
 Call-ID: 3c61c280-b591ed22-9cb-2d050505@5.5.5.45
 Date: Fri, 22 Jan 2010 18:23:29 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034050@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034050" <sip:3034050@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9d71a27d8
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
 To: <sip:3034050@5.5.5.242>;tag=0018b93bb53e000507de843c-27be02e6
 Call-ID: 3c61c280-b591ed22-9cc-2d050505@5.5.5.45
 Date: Fri, 22 Jan 2010 18:23:29 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034050@5.5.5.242:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034050" <sip:3034050@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[9] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK70c6ee0b
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000513cac8e0-076dee46
 To: <sip:3034050@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455203
 Date: Fri, 22 Jan 2010 18:23:30 GMT
 Call-ID: 001a2f8d-f17f0004-1ac96a14-23763234@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034050@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034050" <sip:3034050@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9c42a15be8
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
 To: <sip:3034050@5.5.5.241>;tag=001a2fcb77d600075a9a9dfb-676ea195
 Call-ID: 3c61c280-b591ed22-9cb-2d050505@5.5.5.45
 Date: Fri, 22 Jan 2010 18:23:30 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034050@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034050" <sip:3034050@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 10375 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 26432 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[11] CANCEL sip:3034050@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9d71a27d8
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
 To: <sip:3034050@5.5.5.241>
 Date: Fri, 22 Jan 2010 18:23:30 GMT
 Call-ID: 3c61c280-b591ed22-9cc-2d050505@5.5.5.45
 CSeq: 101 CANCEL
 Max-Forwards: 70
 Reason: SIP; cause=200; text="Call completed elsewhere"
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[12] ACK sip:3034050@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9e19b9940
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
 To: <sip:3034050@5.5.5.241>;tag=001a2fcb77d600075a9a9dfb-676ea195
 Date: Fri, 22 Jan 2010 18:23:30 GMT
 Call-ID: 3c61c280-b591ed22-9cb-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 28280 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[13] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK70c6ee0b
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000513cac8e0-076dee46
 To: <sip:3034050@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455203
 Date: Fri, 22 Jan 2010 18:23:30 GMT
 Call-ID: 001a2f8d-f17f0004-1ac96a14-23763234@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034050@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "SIP Basic 3034050" <sip:3034050@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp

Content-Length: 205

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 26432 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[14] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK70c6ee0b
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000513cac8e0-076dee46
To: <sip:3034050@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455203
Date: Fri, 22 Jan 2010 18:23:30 GMT
Call-ID: 001a2f8d-f17f0004-1ac96a14-23763234@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034050@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "SIP Basic 3034050" <sip:3034050@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 26432 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[15] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9d71a27d8
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
To: <sip:3034050@5.5.5.242>;tag=0018b93bb53e000507de843c-27be02e6
Call-ID: 3c61c280-b591ed22-9cc-2d050505@5.5.5.45
Date: Fri, 22 Jan 2010 18:23:30 GMT
CSeq: 101 CANCEL
Server: Cisco-CP7960G/7.5
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[16] SIP/2.0 487 Request Cancelled
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9d71a27d8
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
To: <sip:3034050@5.5.5.242>;tag=0018b93bb53e000507de843c-27be02e6
Call-ID: 3c61c280-b591ed22-9cc-2d050505@5.5.5.45
Date: Fri, 22 Jan 2010 18:23:30 GMT
CSeq: 101 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:3034050@5.5.5.242:5060>
Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
Remote-Party-ID: "3034050" <sip:3034050@5.5.5.242>;party=called;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[17] ACK sip:3034050@5.5.5.242:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9d71a27d8
From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
To: <sip:3034050@5.5.5.242>;tag=0018b93bb53e000507de843c-27be02e6
Date: Fri, 22 Jan 2010 18:23:30 GMT
Call-ID: 3c61c280-b591ed22-9cc-2d050505@5.5.5.45
Max-Forwards: 70
CSeq: 101 ACK
Allow-Events: presence
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[18] ACK sip:3034050@5.5.5.45:5060 SIP/2.0
```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7c1451c6
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000513cac8e0-076dee46
 To: <sip:3034050@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455203
 Call-ID: 001a2f8d-f17f0004-1ac96a14-23763234@5.5.5.240
 Max-Forwards: 70
 Date: Fri, 22 Jan 2010 18:23:32 GMT
 CSeq: 101 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[19] BYE sip:3034050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK6c05bf30
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000513cac8e0-076dee46
 To: <sip:3034050@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455203
 Call-ID: 001a2f8d-f17f0004-1ac96a14-23763234@5.5.5.240
 Max-Forwards: 70
 Date: Fri, 22 Jan 2010 18:23:38 GMT
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[20] BYE sip:3034050@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9f6a3c92fd
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
 To: <sip:3034050@5.5.5.241>;tag=001a2fcb77d600075a9a9dfb-676ea195
 Date: Fri, 22 Jan 2010 18:23:30 GMT
 Call-ID: 3c61c280-b591ed22-9cb-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[21] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK6c05bf30
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000513cac8e0-076dee46
 To: <sip:3034050@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455203
 Date: Fri, 22 Jan 2010 18:23:38 GMT
 Call-ID: 001a2f8d-f17f0004-1ac96a14-23763234@5.5.5.240
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[22] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9f6a3c92fd
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21455204
 To: <sip:3034050@5.5.5.241>;tag=001a2fcb77d600075a9a9dfb-676ea195
 Call-ID: 3c61c280-b591ed22-9cb-2d050505@5.5.5.45
 Date: Fri, 22 Jan 2010 18:23:37 GMT
 CSeq: 102 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

8. Distinctive Ringing

8.1 Alert Info - Internal

Title: Alert Info - Internal

Description:

SIP Basic phone calls a SIP Basic phone.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

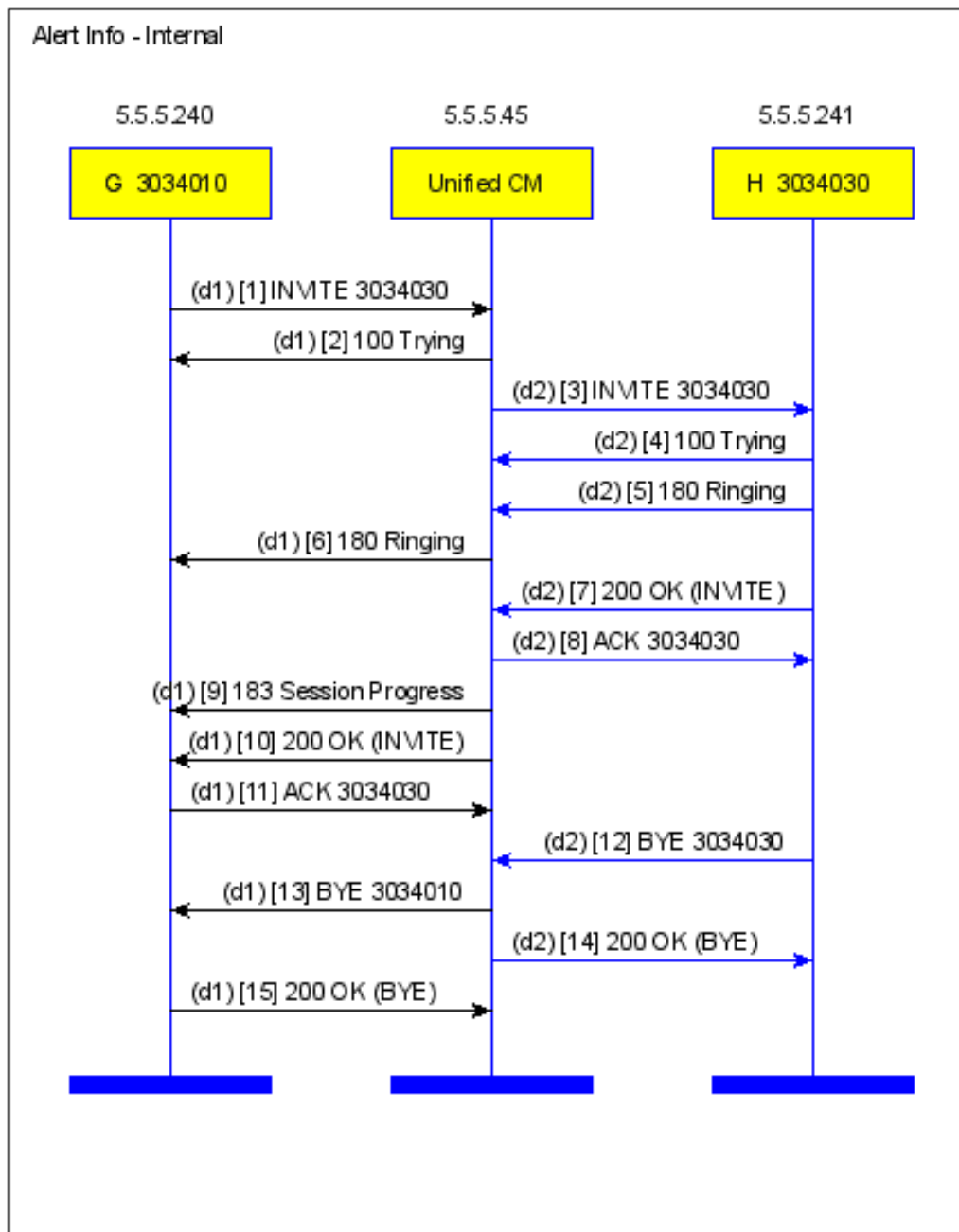
Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

Scenario:

3034010 calls 3034030

3034030 answers the call

3034030 goes onhook



[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[1] INVITE sip:3034030@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK00115d55
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00065a436d1e-6554d82e
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-276e2784-542e2370@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 20 Jan 2010 00:27:44 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 20486 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 28442 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK00115d55
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00065a436d1e-6554d82e
 To: <sip:3034030@5.5.5.45>
 Date: Wed, 20 Jan 2010 00:27:44 GMT
 Call-ID: 001a2f8d-f17f0004-276e2784-542e2370@5.5.5.240
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[3] INVITE sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK88214151040
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454942
 To: <sip:3034030@5.5.5.241>
 Date: Wed, 20 Jan 2010 00:27:44 GMT
 Call-ID: 9f244580-b5614e00-840-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr1/>
 Contact: <sip:3034030@5.5.5.45:5060>
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK88214151040
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454942
 To: <sip:3034030@5.5.5.241>
 Call-ID: 9f244580-b5614e00-840-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:27:43 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK88214151040
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454942
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600082c5109c1-317529db
 Call-ID: 9f244580-b5614e00-840-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:27:43 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK00115d55
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00065a436d1e-6554d82e
 To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454941
 Date: Wed, 20 Jan 2010 00:27:44 GMT
 Call-ID: 001a2f8d-f17f0004-276e2784-542e2370@5.5.5.240
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034030@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK88214151040
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454942
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600082c5109c1-317529db
 Call-ID: 9f244580-b5614e00-840-2d050505@5.5.5.45
 Date: Wed, 20 Jan 2010 00:27:44 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 8651 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 21032 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.241
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8839ee4f1
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454942
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600082c5109c1-317529db
 Date: Wed, 20 Jan 2010 00:27:44 GMT
 Call-ID: 9f244580-b5614e00-840-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 28442 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20

```
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 183 Session Progress

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK00115d55
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00065a436d1e-6554d82e
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454941
Date: Wed, 20 Jan 2010 00:27:44 GMT
Call-ID: 001a2f8d-f17f0004-276e2784-542e2370@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Send-Info: conference
Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 21032 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK00115d55
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00065a436d1e-6554d82e
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454941
Date: Wed, 20 Jan 2010 00:27:44 GMT
Call-ID: 001a2f8d-f17f0004-276e2784-542e2370@5.5.5.240
CSeq: 101 INVITE
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
Allow-Events: presence
Contact: <sip:3034030@5.5.5.45:5060>
Supported: replaces
Send-Info: conference
Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Type: application/sdp
Content-Length: 205
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.241
t=0 0
m=audio 21032 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK68e8d503
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00065a436d1e-6554d82e
To: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454941
Call-ID: 001a2f8d-f17f0004-276e2784-542e2370@5.5.5.240
Max-Forwards: 70
Date: Wed, 20 Jan 2010 00:27:45 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=calling;id-type=subscriber;privacy=off;screen=yes
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] BYE sip:3034030@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK5ccd0c26
From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600082c5109c1-317529db
To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454942
Call-ID: 9f244580-b5614e00-840-2d050505@5.5.5.45
Max-Forwards: 70
Date: Wed, 20 Jan 2010 00:27:48 GMT
CSeq: 101 BYE
```


User-Agent: Cisco-CP7960G/7.5
Content-Length: 0

[diagram] Call-ID: [prev][next]
[13] BYE sip:3034010@5.5.5.240:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8845e08087b
From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454941
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00065a436d1e-6554d82e
Date: Wed, 20 Jan 2010 00:27:46 GMT
Call-ID: 001a2f8d-f17f0004-276e2784-542e2370@5.5.5.240
User-Agent: Cisco-CUCM8.0
Max-Forwards: 70
CSeq: 101 BYE
Content-Length: 0

[diagram] Call-ID: [prev][next]
[14] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK5ccd0c26
From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600082c5109c1-317529db
To: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454942
Date: Wed, 20 Jan 2010 00:27:49 GMT
Call-ID: 9f244580-b5614e00-840-2d050505@5.5.5.45
CSeq: 101 BYE
Content-Length: 0

[diagram] Call-ID: [prev][next]
[15] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8845e08087b
From: <sip:3034030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454941
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00065a436d1e-6554d82e
Call-ID: 001a2f8d-f17f0004-276e2784-542e2370@5.5.5.240
Date: Wed, 20 Jan 2010 00:27:49 GMT
CSeq: 101 BYE
Server: Cisco-CP7960G/7.5
Content-Length: 0

8.2 Alert Info - External

Title: Alert Info - External

Description:

A phone from another cluster calls a SIP Basic phone over a SIP-ICT trunk.

Configuration:

Node = Unified CM1, IP = 5.5.5.45

Node = Unified CM2, IP = 5.5.5.48

Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Phone = X, Line = 4251030, IP = 5.5.5., Model = SCCP

SIP-ICT trunk configured

Scenario:

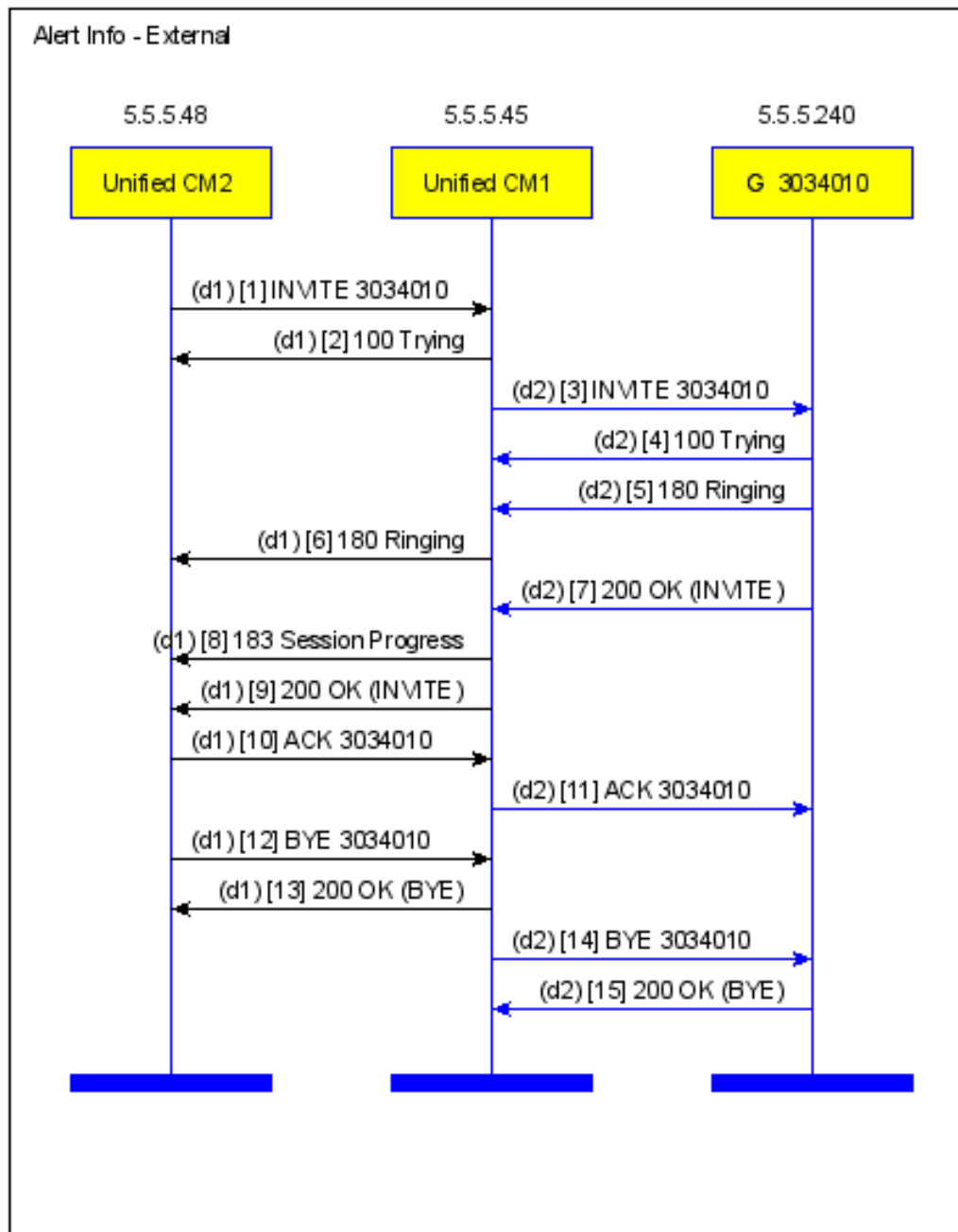
4251030 calls 3034010

Call arrives over a SIP-ICT trunk from Unified CM2

3034010 rings

3034010 answers

4251030 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3034010@titan-pub.sipnet5.com:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bK37cbe5fdb
 From: "Craig" <sip:4251030@5.5.5.48>;tag=3f76ccd5-27cb-427f-8405-d88e2cb96308-22606328
 To: <sip:3034010@titan-pub.sipnet5.com>
 Date: Tue, 19 Jan 2010 23:30:11 GMT
 Call-ID: 94fe4900-b5614083-3-30050505@5.5.5.48
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Contact: <sip:4251030@5.5.5.48:5060>
 Expires: 180
 Allow-Events: presence, kpml
 Supported: X-cisco-srtp-fallback
 Supported: Geolocation
 Cisco-Guid: 2499692800-3043049603-0000000002-0805635333
 Session-Expires: 1800
 Remote-Party-ID: "Craig" <sip:4251030@5.5.5.48>;party=calling;screen=yes;privacy=off
 Max-Forwards: 70
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bK37cbe5fdb
 From: "Craig" <sip:4251030@5.5.5.48>;tag=3f76ccd5-27cb-427f-8405-d88e2cb96308-22606328
 To: <sip:3034010@titan-pub.sipnet5.com>
 Date: Tue, 19 Jan 2010 23:30:11 GMT
 Call-ID: 94fe4900-b5614083-3-30050505@5.5.5.48
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK83d44887081
 From: "Craig" <sip:4251030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454925
 To: <sip:3034010@5.5.5.240>
 Date: Tue, 19 Jan 2010 23:30:11 GMT
 Call-ID: 94fe4900-b5614083-823-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Expires: 180
 Allow-Events: presence
 Send-Info: conference
 Alert-Info: <file://Bellcore-dr2/>
 Contact: <sip:3034010@5.5.5.45:5060>
 Remote-Party-ID: "Craig" <sip:4251030@5.5.5.45;x-cisco-callback-number=4251030>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK83d44887081
 From: "Craig" <sip:4251030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454925
 To: <sip:3034010@5.5.5.240>
 Call-ID: 94fe4900-b5614083-823-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:30:12 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK83d44887081
 From: "Craig" <sip:4251030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454925
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f001105c0a8e0-5d5108d8
 Call-ID: 94fe4900-b5614083-823-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:30:12 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>

Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=called;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bK37cbe5fdb
 From: "Craig" <sip:4251030@5.5.5.48>;tag=3f76ccd5-27cb-427f-8405-d88e2cb96308-22606328
 To: <sip:3034010@titan-pub.sipnet5.com>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454924
 Date: Tue, 19 Jan 2010 23:30:11 GMT
 Call-ID: 94fe4900-b5614083-3-30050505@5.5.5.48
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034010@5.5.5.45:5060>
 Supported: X-cisco-srtp-fallback
 Supported: Geolocation
 Remote-Party-ID: "3034010 Alertingname" <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK83d44887081
 From: "Craig" <sip:4251030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454925
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f001105c0a8e0-5d5108d8
 Call-ID: 94fe4900-b5614083-823-2d050505@5.5.5.45
 Date: Tue, 19 Jan 2010 23:30:15 GMT
 CSeq: 101 INVITE
 Server: Cisco-CP7960G/7.5
 Contact: <sip:3034010@5.5.5.240:5060>
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "3034010" <sip:3034010@5.5.5.240>;party=called;id-type=subscriber;privacy=off;screen=yes
 Supported: replaces
 Content-Length: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 24190 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 20100 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.240
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bK37cbe5fdb
 From: "Craig" <sip:4251030@5.5.5.48>;tag=3f76ccd5-27cb-427f-8405-d88e2cb96308-22606328
 To: <sip:3034010@titan-pub.sipnet5.com>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454924
 Date: Tue, 19 Jan 2010 23:30:11 GMT
 Call-ID: 94fe4900-b5614083-3-30050505@5.5.5.48
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034010@5.5.5.45:5060>
 Supported: X-cisco-srtp-fallback
 Supported: Geolocation
 Remote-Party-ID: "3034010 Alertingname" <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 279

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 20100 RTP/AVP 0 8 18 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:8 PCMA/8000
 a=ptime:20
 a=rtpmap:18 G729/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bK37cbe5fdb
 From: "Craig" <sip:4251030@5.5.5.48>;tag=3f76ccd5-27cb-427f-8405-d88e2cb96308-22606328
 To: <sip:3034010@titan-pub.sipnet5.com>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454924
 Date: Tue, 19 Jan 2010 23:30:11 GMT
 Call-ID: 94fe4900-b5614083-3-30050505@5.5.5.48
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3034010@5.5.5.45:5060>
 Supported: replaces
 Supported: X-cisco-srtp-fallback
 Supported: Geolocation
 Session-Expires: 1800;refresher=uas
 Require: timer
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 279

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.240
 t=0 0
 m=audio 20100 RTP/AVP 0 8 18 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:8 PCMA/8000
 a=ptime:20
 a=rtpmap:18 G729/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] ACK sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bK43db157bc
 From: "Craig" <sip:4251030@5.5.5.48>;tag=3f76ccd5-27cb-427f-8405-d88e2cb96308-22606328
 To: <sip:3034010@titan-pub.sipnet5.com>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454924
 Date: Tue, 19 Jan 2010 23:30:11 GMT
 Call-ID: 94fe4900-b5614083-3-30050505@5.5.5.48
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence, kpml
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.48
 s=SIP Call
 c=IN IP4 5.5.5.221
 t=0 0
 m=audio 17970 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3034010@5.5.5.240:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK83e4b4f8123
 From: "Craig" <sip:4251030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454925
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f001105c0a8e0-5d5108d8
 Date: Tue, 19 Jan 2010 23:30:11 GMT
 Call-ID: 94fe4900-b5614083-823-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.221
 t=0 0
 m=audio 17970 RTP/AVP 0 101

```
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

```
[diagram] Call-ID: [prev][next]
[12] BYE sip:3034010@5.5.5.45:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bK55d2afdbd
From: "Craig" <sip:4251030@5.5.5.48>;tag=3f76ccd5-27cb-427f-8405-d88e2cb96308-22606328
To: <sip:3034010@titan-pub.sipnet5.com>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454924
Date: Tue, 19 Jan 2010 23:30:11 GMT
Call-ID: 94fe4900-b5614083-3-30050505@5.5.5.48
User-Agent: Cisco-CUCM8.0
Max-Forwards: 70
CSeq: 102 BYE
Content-Length: 0
```

```
[diagram] Call-ID: [prev][next]
[13] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bK55d2afdbd
From: "Craig" <sip:4251030@5.5.5.48>;tag=3f76ccd5-27cb-427f-8405-d88e2cb96308-22606328
To: <sip:3034010@titan-pub.sipnet5.com>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454924
Date: Tue, 19 Jan 2010 23:30:19 GMT
Call-ID: 94fe4900-b5614083-3-30050505@5.5.5.48
CSeq: 102 BYE
Content-Length: 0
```

```
[diagram] Call-ID: [prev][next]
[14] BYE sip:3034010@5.5.5.240:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK83f4f9b103f
From: "Craig" <sip:4251030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454925
To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f001105c0a8e0-5d5108d8
Date: Tue, 19 Jan 2010 23:30:11 GMT
Call-ID: 94fe4900-b5614083-823-2d050505@5.5.5.45
User-Agent: Cisco-CUCM8.0
Max-Forwards: 70
CSeq: 102 BYE
Content-Length: 0
```

```
[diagram] Call-ID: [prev][next]
[15] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK83f4f9b103f
From: "Craig" <sip:4251030@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-21454925
To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f001105c0a8e0-5d5108d8
Call-ID: 94fe4900-b5614083-823-2d050505@5.5.5.45
Date: Tue, 19 Jan 2010 23:30:20 GMT
CSeq: 102 BYE
Server: Cisco-CP7960G/7.5
Content-Length: 0
```

9. Message Waiting Indicator

9.1 Message Waiting Indication On

Title: Message Waiting Indication On

Description:

Line 3033100 on phone F has voicemail configured but no messages currently waiting and is configured via Unified CM for Call Forward All to voicemail.

Note phone F may have lines other than 3033100. However this scenario focuses on Line 3033100.

Line 3033110 on phone A calls line 3033100 on phone F and is forwarded to the voicemail server. The user at phone A leaves a message.

The voicemail server will inform Unified CM and Unified CM will inform phone F of the new message waiting on state.

Notice the "NOTIFY" sent to phone F with a "Messages-Waiting: yes" body.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = E, Line = 3033110, IP = 5.5.5.230, Model = Cisco 7960

Phone = F, Line = 3033100, IP = 5.5.5.226, Model = Cisco 7960

Node = Voicemail Server, IP = 5.5.5.72

Scenario:

3033110 calls 3033100

3033100 does not ring

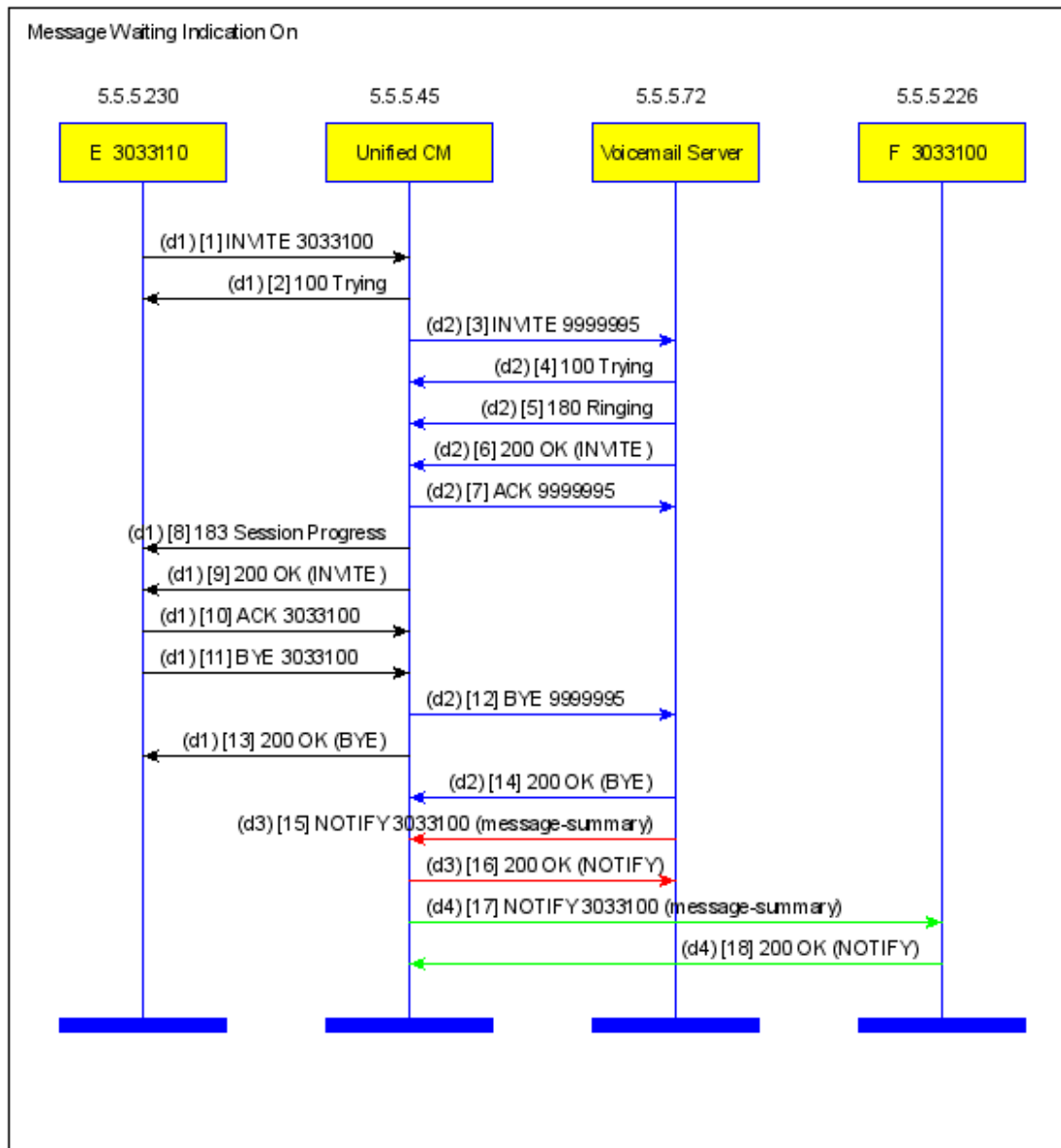
Voicemail server rings and answers

3033110 leaves message

3033110 goes onhook

Voicemail server notifies Unified CM of Phone F's MWI state

Unified CM notifies phone F of its MWI state



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3033100@titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK5cbb400f
 From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000676620218-3fb67375
 To: <sip:3033100@titan-pub>
 Call-ID: 000ab8f5-aa21000b-30691cb2-0b12918c@5.5.5.230
 Max-Forwards: 70
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/8.0
 Contact: <sip:3033110@5.5.5.230:5060;transport=udp>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "Vicky" <sip:3033110@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 269
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 4643 0 IN IP4 5.5.5.230
 s=SIP Call
 t=0 0
 m=audio 19438 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.230
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=fmtp:18 annexb=no
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK5cbb400f
 From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000676620218-3fb67375
 To: <sip:3033100@titan-pub>
 Date: Thu, 07 Jan 2010 22:59:00 GMT
 Call-ID: 000ab8f5-aa21000b-30691cb2-0b12918c@5.5.5.230
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:9999995@janus-unity.sipnet5.com:5090 SIP/2.0

Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bK23e25186f913
 From: "Vicky" <sip:3033110@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945273
 To: <sip:9999995@janus-unity.sipnet5.com>
 Date: Thu, 07 Jan 2010 22:59:00 GMT
 Call-ID: 3cd55780-b4616734-13cf-2d050505@5.5.5.45
 Supported: timer, resource-priority, replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Contact: <sip:3033110@5.5.5.45:5090;transport=tcp>
 Expires: 180
 Allow-Events: presence
 Supported: X-cisco-srtp-fallback
 Supported: Geolocation
 Cisco-Guid: 1020614528-3026282292-0000000053-0755303685
 Session-Expires: 1800
 Diversion: "Tripti" <sip:3033100@5.5.5.45>;reason=unconditional;privacy=off;screen=yes
 Remote-Party-ID: "Vicky" <sip:3033110@5.5.5.45>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

From: "Vicky" <sip:3033110@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945273
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=97AA559E14A6454F95FA5D0BB15A1F24
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bK23e25186f913
 Call-ID: 3cd55780-b4616734-13cf-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

From: "Vicky" <sip:3033110@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945273
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=97AA559E14A6454F95FA5D0BB15A1F24

Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bK23e25186f913
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bK23e25186f913
 Call-ID: 3cd55780-b4616734-13cf-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 200 OK

From: "Vicky" <sip:3033110@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945273
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=97AA559E14A6454F95FA5D0BB15A1F24
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bK23e25186f913
 Contact: sip:9999995@5.5.5.72:5090
 Call-ID: 3cd55780-b4616734-13cf-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Content-Length: 243
 Content-Type: application/sdp

v=0
 o=5.5.5.72 3408141 3408141 IN IP4 5.5.5.72
 s=No Subject
 c=IN IP4 5.5.5.72
 t=0 0
 m=audio 22814 RTP/AVP 0 18 101
 a=rtpmap:0 pcmu/8000
 a=ptime:20
 a=rtpmap:18 G729/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] ACK sip:9999995@5.5.5.72:5090 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bK23e3225f321a
 From: "Vicky" <sip:3033110@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945273
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=97AA559E14A6454F95FA5D0BB15A1F24
 Date: Thu, 07 Jan 2010 22:59:00 GMT
 Call-ID: 3cd55780-b4616734-13cf-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.230
 t=0 0
 m=audio 19438 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK5cbb400f
 From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000676620218-3fb67375
 To: <sip:3033100@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945270
 Date: Thu, 07 Jan 2010 22:59:00 GMT
 Call-ID: 000ab8f5-aa21000b-30691cb2-0b12918c@5.5.5.230
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3033100@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: <sip:3033100@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 204

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.72
 t=0 0
 m=audio 22814 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK5cbb400f
 From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000676620218-3fb67375
 To: <sip:3033100@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945270
 Date: Thu, 07 Jan 2010 22:59:00 GMT
 Call-ID: 000ab8f5-aa21000b-30691cb2-0b12918c@5.5.5.230
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:3033100@5.5.5.45:5060>
 Supported: replaces
 Send-Info: conference
 Remote-Party-ID: <sip:9999995@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 204

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.72
 t=0 0
 m=audio 22814 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] ACK sip:3033100@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK72fc6c54
 From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000676620218-3fb67375
 To: <sip:3033100@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945270
 Call-ID: 000ab8f5-aa21000b-30691cb2-0b12918c@5.5.5.230
 Max-Forwards: 70
 CSeq: 101 ACK
 User-Agent: Cisco-CP7960G/8.0
 Remote-Party-ID: "Vicky" <sip:3033110@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] BYE sip:3033100@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK54aa81e4
 From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000676620218-3fb67375
 To: <sip:3033100@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945270
 Call-ID: 000ab8f5-aa21000b-30691cb2-0b12918c@5.5.5.230
 Max-Forwards: 70
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/8.0
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] BYE sip:9999995@5.5.5.72:5090 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bK23e411dd4527
 From: "Vicky" <sip:3033110@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945273
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=97AA559E14A6454F95FA5D0BB15A1F24
 Date: Thu, 07 Jan 2010 22:59:00 GMT
 Call-ID: 3cd55780-b4616734-13cf-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK54aa81e4
 From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000676620218-3fb67375
 To: <sip:3033100@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945270
 Date: Thu, 07 Jan 2010 22:59:16 GMT
 Call-ID: 000ab8f5-aa21000b-30691cb2-0b12918c@5.5.5.230
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] SIP/2.0 200 OK

From: "Vicky" <sip:3033110@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945273
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=97AA559E14A6454F95FA5D0BB15A1F24
 Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bK23e411dd4527
 Call-ID: 3cd55780-b4616734-13cf-2d050505@5.5.5.45

CSeq: 102 BYE
Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)
[15] NOTIFY sip:3033100@5.5.5.45 SIP/2.0
 From: sip:9999995@5.5.5.72:5090;tag=EE0C79DB4C8E4DAEBA3E88F2D506C0F6
 To: sip:3033100@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.72:5090;branch=z9hG4bKBE6B9F8D83F8469FA00CDF777AA6D1C1
 Max-Forwards: 70
 Contact: sip:9999995@5.5.5.72:5090
 Call-ID: 6F2F171A21FB4002B2D0B0881F3C4D3C@5.5.5.45
 CSeq: 300 NOTIFY
 Event: message-summary
 Content-Length: 23
 Content-Type: text/plain
 Messages-Waiting: yes

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)
[16] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.72:5090;branch=z9hG4bKBE6B9F8D83F8469FA00CDF777AA6D1C1
 From: sip:9999995@5.5.5.72:5090;tag=EE0C79DB4C8E4DAEBA3E88F2D506C0F6
 To: sip:3033100@5.5.5.45;tag=412686742
 Date: Thu, 07 Jan 2010 22:59:17 GMT
 Call-ID: 6F2F171A21FB4002B2D0B0881F3C4D3C@5.5.5.45
 CSeq: 300 NOTIFY
 Content-Length: 0

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)
[17] NOTIFY sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK23e5433c40fb
 From: <sip:3033100@5.5.5.45>;tag=219031229
 To: <sip:3033100@5.5.5.226>
 Call-ID: 46f75600-b4616745-13d0-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 Max-Forwards: 70
 Date: Thu, 07 Jan 2010 22:59:17 GMT
 User-Agent: Cisco-CUCM8.0
 Event: message-summary
 Subscription-State: active
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Content-Length: 23
 Messages-Waiting: yes

[\[diagram\]](#) Call-ID:[\[prev\]](#)[\[next\]](#)
[18] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK23e5433c40fb
 From: <sip:3033100@5.5.5.45>;tag=219031229
 To: <sip:3033100@5.5.5.226>
 Call-ID: 46f75600-b4616745-13d0-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 Content-Length: 0

9.2 Message Waiting Indication Off

Title: Message Waiting Indication Off

Description:

Line 3033100 on phone F has voicemail configured with one or more messages currently waiting. Note this phone may have lines other than 3033100. However this scenario focuses on Line 3033100.

Line 3033100 on phone F calls the voicemail server and accesses their voicemail account and listens to all new messages

The voicemail server will inform Unified CM and Unified CM will inform phone F of the new message waiting off state

Notice the "NOTIFY" sent to phone F with "Messages-Waiting: no" body for Line 3033100.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Node = Voicemail Server, IP = 5.5.5.72

Phone = F, Line = 3033100, IP = 5.5.5.226, Model = Cisco 7960

Scenario:

3033100 calls voicemail server

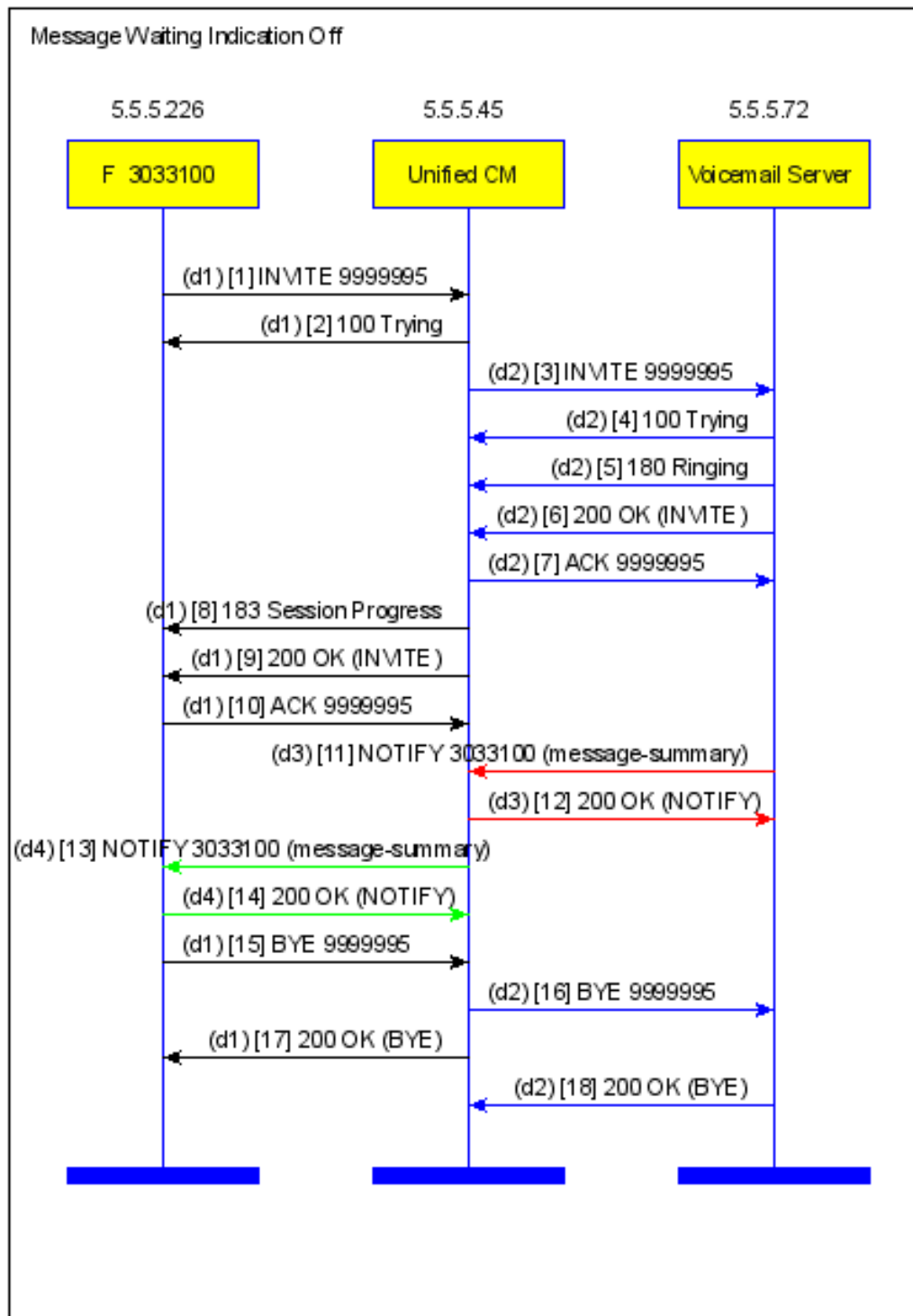
Voicemail server rings and answers

3033100 checks messages

Voicemail server notifies Unified CM of Phone F's MWI state

Unified CM notifies phone F of its MWI state

3033100 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:9999995@titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK0c4afa21
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00284b7d1678-6aa8bd9a
 To: <sip:9999995@titan-pub>
 Call-ID: 000ab8f5-aadf0009-5c5c1dff-43268928@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/8.0
 Contact: <sip:3033100@5.5.5.226:5060;transport=udp>
 Expires: 180
 Accept: application/sdp
 Allow: ACK, BYE, CANCEL, INVITE, NOTIFY, OPTIONS, REFER, REGISTER, UPDATE
 Remote-Party-ID: "Tripti" <sip:3033100@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 270
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 13433 0 IN IP4 5.5.5.226
 s=SIP Call
 t=0 0
 m=audio 31288 RTP/AVP 0 8 18 101
 c=IN IP4 5.5.5.226
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:18 G729/8000
 a=fmtp:18 annexb=no
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK0c4afa21
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00284b7d1678-6aa8bd9a
 To: <sip:9999995@titan-pub>
 Date: Thu, 07 Jan 2010 22:41:03 GMT
 Call-ID: 000ab8f5-aadf0009-5c5c1dff-43268928@5.5.5.226
 CSeq: 101 INVITE
 Allow-Events: presence
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] INVITE sip:9999995@janus-unity.sipnet5.com:5090 SIP/2.0

Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bK23c269b04aec
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945256
 To: <sip:9999995@janus-unity.sipnet5.com>
 Date: Thu, 07 Jan 2010 22:41:03 GMT
 Call-ID: bae42f00-b46162ff-13b7-2d050505@5.5.5.45
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 User-Agent: Cisco-CUCM8.0
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 CSeq: 101 INVITE
 Contact: <sip:3033100@5.5.5.45:5090;transport=tcp>
 Expires: 180
 Allow-Events: presence
 Supported: X-cisco-srtp-fallback
 Supported: Geolocation
 Cisco-Guid: 3135516416-3026281215-0000000049-0755303685
 Session-Expires: 1800
 Remote-Party-ID: "Tripti" <sip:3033100@5.5.5.45>;party=calling;screen=yes;privacy=off
 Max-Forwards: 69
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945256
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=F1D18D1209C04156B772855FAB24B43E
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bK23c269b04aec
 Call-ID: bae42f00-b46162ff-13b7-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 180 Ringing

From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945256
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=F1D18D1209C04156B772855FAB24B43E
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bK23c269b04aec

Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bK23c269b04aec
 Call-ID: bae42f00-b46162ff-13b7-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[6] SIP/2.0 200 OK

From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945256
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=F1D18D1209C04156B772855FAB24B43E
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bK23c269b04aec
 Contact: sip:9999995@5.5.5.72:5090
 Call-ID: bae42f00-b46162ff-13b7-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Content-Length: 243
 Content-Type: application/sdp

v=0
 o=5.5.5.72 2330688 2330688 IN IP4 5.5.5.72
 s=No Subject
 c=IN IP4 5.5.5.72
 t=0 0
 m=audio 22806 RTP/AVP 0 18 101
 a=rtpmap:0 pcmu/8000
 a=ptime:20
 a=rtpmap:18 G729/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[7] ACK sip:9999995@5.5.5.72:5090 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bK23c237bcebb
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945256
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=F1D18D1209C04156B772855FAB24B43E
 Date: Thu, 07 Jan 2010 22:41:03 GMT
 Call-ID: bae42f00-b46162ff-13b7-2d050505@5.5.5.45
 Max-Forwards: 70
 CSeq: 101 ACK
 Allow-Events: presence
 Content-Type: application/sdp
 Content-Length: 205

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.226
 t=0 0
 m=audio 31288 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[8] SIP/2.0 183 Session Progress

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK0c4afa21
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00284b7d1678-6aa8bd9a
 To: <sip:9999995@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945256
 Date: Thu, 07 Jan 2010 22:41:03 GMT
 Call-ID: 000ab8f5-aadf0009-5c5c1dff-43268928@5.5.5.226
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:9999995@5.5.5.45:5060>
 Send-Info: conference
 Remote-Party-ID: <sip:9999995@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 204

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.72
 t=0 0
 m=audio 22806 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[9] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK0c4afa21
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00284b7d1678-6aa8bd9a
 To: <sip:9999995@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945255
 Date: Thu, 07 Jan 2010 22:41:03 GMT
 Call-ID: 000ab8f5-aadf0009-5c5c1dff-43268928@5.5.5.226
 CSeq: 101 INVITE
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 Allow-Events: presence
 Contact: <sip:9999995@5.5.5.45:5060>
 Supported: replaces
 Send-Info: conference
 Remote-Party-ID: <sip:9999995@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Type: application/sdp
 Content-Length: 204

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.72
 t=0 0
 m=audio 22806 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[10] ACK sip:9999995@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK64a8e3e4
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00284b7d1678-6aa8bd9a
 To: <sip:9999995@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945255
 Call-ID: 000ab8f5-aadf0009-5c5c1dff-43268928@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 ACK
 User-Agent: Cisco-CP7960G/8.0
 Remote-Party-ID: "Tripti" <sip:3033100@titan-pub>;party=calling;id-type=subscriber;privacy=off;screen=yes
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[11] NOTIFY sip:3033100@5.5.5.45 SIP/2.0

From: sip:9999995@5.5.5.72:5090;tag=3B9D644FBA764573B63E0FA3B516BC83
 To: sip:3033100@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.72:5090;branch=z9hG4bK294C02DC36EF4AC6A874B52032F8560E
 Max-Forwards: 70
 Contact: sip:9999995@5.5.5.72:5090
 Call-ID: F1C5AD97CBFC45CD931C7BCE0953EAAB@5.5.5.45
 CSeq: 300 NOTIFY
 Event: message-summary
 Content-Length: 22
 Content-Type: text/plain

Messages-Waiting: no

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[12] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.72:5090;branch=z9hG4bK294C02DC36EF4AC6A874B52032F8560E
 From: sip:9999995@5.5.5.72:5090;tag=3B9D644FBA764573B63E0FA3B516BC83
 To: sip:3033100@5.5.5.45;tag=2024811940
 Date: Thu, 07 Jan 2010 22:41:52 GMT
 Call-ID: F1C5AD97CBFC45CD931C7BCE0953EAAB@5.5.5.45
 CSeq: 300 NOTIFY
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[13] NOTIFY sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK23c4112dcef6
 From: <sip:3033100@5.5.5.45>;tag=47047560
 To: <sip:3033100@5.5.5.226>
 Call-ID: d818fd80-b4616330-13b8-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 Max-Forwards: 70
 Date: Thu, 07 Jan 2010 22:41:52 GMT
 User-Agent: Cisco-CUCM8.0
 Event: message-summary
 Subscription-State: active
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Content-Length: 22

Messages-Waiting: no

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK23c4112dcef6
 From: <sip:3033100@5.5.5.45>;tag=47047560
 To: <sip:3033100@5.5.5.226>
 Call-ID: d818fd80-b4616330-13b8-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] BYE sip:9999995@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK6320335a
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00284b7d1678-6aa8bd9a
 To: <sip:9999995@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945255
 Call-ID: 000ab8f5-aadf0009-5c5c1dff-43268928@5.5.5.226
 Max-Forwards: 70
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/8.0
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[16] BYE sip:9999995@5.5.5.72:5090 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bK23c546ee017a
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945256
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=F1D18D1209C04156B772855FAB24B43E
 Date: Thu, 07 Jan 2010 22:41:03 GMT
 Call-ID: bae42f00-b46162ff-13b7-2d050505@5.5.5.45
 User-Agent: Cisco-CUCM8.0
 Max-Forwards: 70
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[17] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK6320335a
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00284b7d1678-6aa8bd9a
 To: <sip:9999995@titan-pub>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945255
 Date: Thu, 07 Jan 2010 22:42:08 GMT
 Call-ID: 000ab8f5-aadf0009-5c5c1dff-43268928@5.5.5.226
 CSeq: 102 BYE
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[18] SIP/2.0 200 OK

From: "Tripti" <sip:3033100@5.5.5.45>;tag=71f3e955-3be3-4b5d-a5fc-fb0b81e9f095-27945256
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=F1D18D1209C04156B772855FAB24B43E
 Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bK23c546ee017a
 Call-ID: bae42f00-b46162ff-13b7-2d050505@5.5.5.45
 CSeq: 102 BYE
 Content-Length: 0

9.3 Message Waiting Indication On at Registration

Title: Message Waiting Indication On at Registration

Description:

Line 3033100 on phone F has voicemail configured with one or more messages currently waiting. Note this phone may have lines other than 3033100. However this scenario focuses on Line 3033100.

When phone F first registers line 3033100 (either when it's created or after a power cycles, for example) Unified CM will inform the phone of line 3033100's MWI state.

In this case, Unified CM will send a NOTIFY containing a "Messages-Waiting: yes" body for Line 3033100.

Configuration:

Node = Unified CM, IP = 5.5.5.45

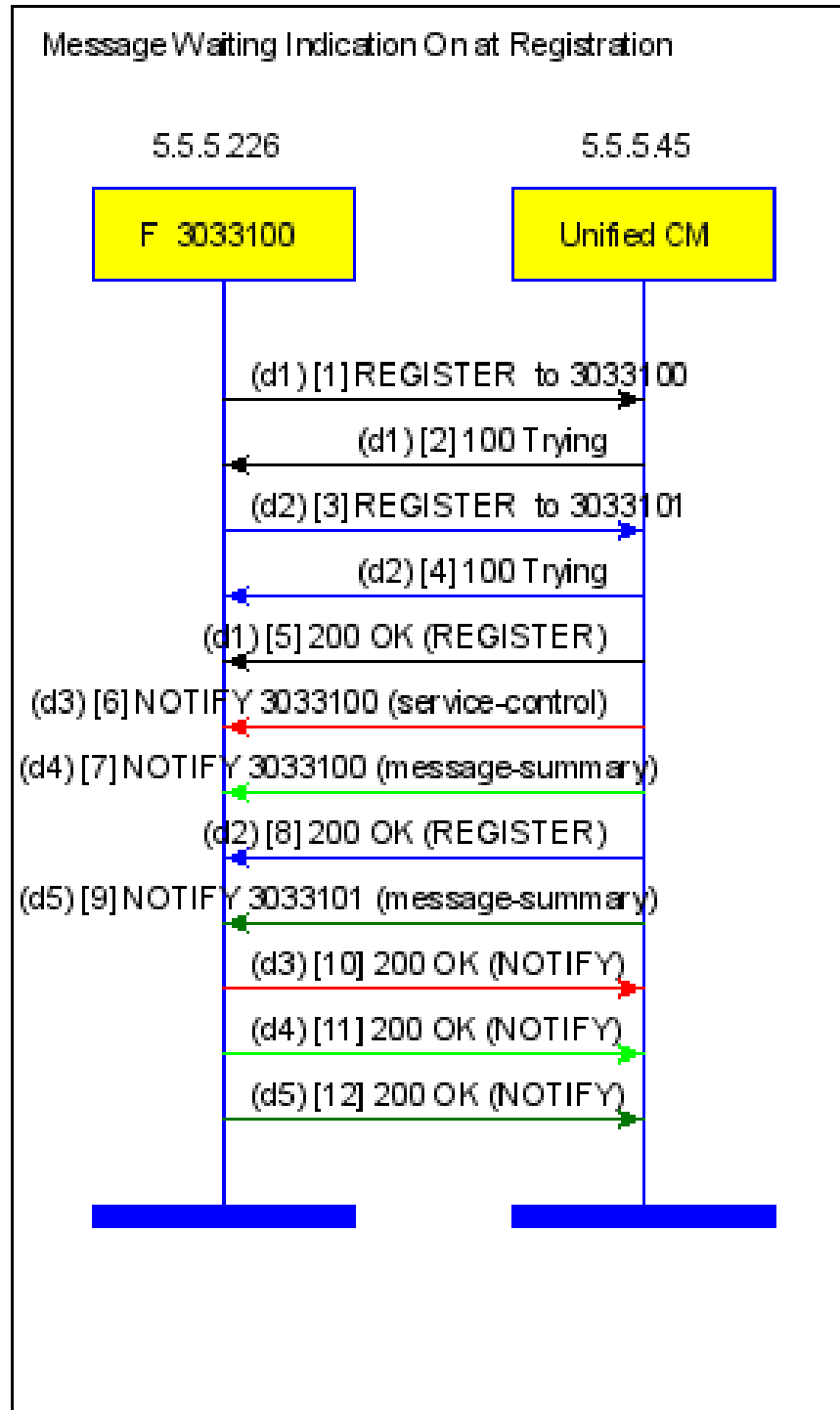
Phone = F, Line = 3033100, IP = 5.5.5.226, Model = Cisco 7960 (SIP)

Scenario:

Phone F is powered on

Phone F gets NOTIFY with "Messages-Waiting: yes" for line 3033100.

(See Registration section for complete details)



[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[1] REGISTER sip:titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK6553eae2
 From: <sip:3033100@titan-pub>;tag=000ab8f5aadf00026cd0b2e3-7f6cb1af
 To: <sip:3033100@titan-pub>
 Call-ID: 000ab8f5-aadf0003-6067ff24-7dca309b@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 REGISTER
 User-Agent: Cisco-CP7960G/8.0
 Contact: <sip:3033100@5.5.5.226:5060;transport=udp>;+sip.instance="urn:uuid:00000000-0000-0000-0000-000ab8f5aadf>";+u.sip!model.ccm.cisco.com="7"
 Supported: replaces,join,norefersub,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-service-control
 Content-Length: 0
 Expires: 3600

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK6553eae2
 From: <sip:3033100@titan-pub>;tag=000ab8f5aadf00026cd0b2e3-7f6cb1af
 To: <sip:3033100@titan-pub>
 Date: Fri, 22 Jan 2010 18:00:11 GMT
 Call-ID: 000ab8f5-aadf0003-6067ff24-7dca309b@5.5.5.226
 CSeq: 101 REGISTER
 Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[3] REGISTER sip:titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK4de97657
 From: <sip:3033101@titan-pub>;tag=000ab8f5aadf00034eb8f934-131c9c10
 To: <sip:3033101@titan-pub>
 Call-ID: 000ab8f5-aadf0004-6aefc9de-680b7834@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 REGISTER
 User-Agent: Cisco-CP7960G/8.0
 Contact: <sip:3033101@5.5.5.226:5060;transport=udp>;+sip.instance="urn:uuid:00000000-0000-0000-0000-000ab8f5aadf>";+u.sip!model.ccm.cisco.com="7"
 Supported: replaces,join,norefersub,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-service-control
 Content-Length: 0
 Expires: 3600

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK4de97657
 From: <sip:3033101@titan-pub>;tag=000ab8f5aadf00034eb8f934-131c9c10
 To: <sip:3033101@titan-pub>
 Date: Fri, 22 Jan 2010 18:00:11 GMT
 Call-ID: 000ab8f5-aadf0004-6aefc9de-680b7834@5.5.5.226
 CSeq: 101 REGISTER
 Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK6553eae2
 From: <sip:3033100@titan-pub>;tag=000ab8f5aadf00026cd0b2e3-7f6cb1af
 To: <sip:3033100@titan-pub>;tag=785156751
 Date: Fri, 22 Jan 2010 18:00:11 GMT
 Call-ID: 000ab8f5-aadf0003-6067ff24-7dca309b@5.5.5.226
 CSeq: 101 REGISTER
 Expires: 120
 Contact: <sip:3033100@5.5.5.226:5060;transport=udp>;+sip.instance="urn:uuid:00000000-0000-0000-0000-000ab8f5aadf>";+u.sip!model.ccm.cisco.com="7";x-cisco-newreg
 Supported: X-cisco-sis-5.0.0
 Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[6] NOTIFY sip:3033100@5.5.5.226:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc8235ee8be1
 From: <sip:5.5.5.45>;tag=1548119658
 To: <sip:3033100@5.5.5.226>
 Call-ID: fa834d00-b591e7ab-9b3-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 Max-Forwards: 70
 Date: Fri, 22 Jan 2010 18:00:11 GMT
 User-Agent: Cisco-CUCM8.0
 Event: service-control
 Subscription-State: active
 Contact: <sip:5.5.5.45:5060>
 Content-Type: text/plain
 Content-Length: 226

```

action=check-version
RegisterCallId={000ab8f5-aadf0003-6067ff24-7dca309b@5.5.5.226}
ConfigVersionStamp={1263941778-68a9784e-7f08-4990-a4fa-90cb3472f8c5}
DialplanVersionStamp={1251475945-e4126fda-1e6b-4f76-81e8-f7eeb05cedfb}

```

```

[diagram] Call-ID:[prev][next]
[7] NOTIFY sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc83514cd0f5
From: <sip:3033100@5.5.5.45>;tag=1559768704
To: <sip:3033100@5.5.5.226>
Call-ID: fa834d00-b591e7ab-9b4-2d050505@5.5.5.45
CSeq: 101 NOTIFY
Max-Forwards: 70
Date: Fri, 22 Jan 2010 18:00:11 GMT
User-Agent: Cisco-CUCM8.0
Event: message-summary
Subscription-State: active
Contact: <sip:3033100@5.5.5.45:5060>
Content-Type: application/simple-message-summary
Content-Length: 23

```

Messages-Waiting: yes

```

[diagram] Call-ID:[prev][next]
[8] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK4de97657
From: <sip:3033101@titan-pub>;tag=000ab8f5aadf00034eb8f934-131c9c10
To: <sip:3033101@titan-pub>;tag=6289353
Date: Fri, 22 Jan 2010 18:00:11 GMT
Call-ID: 000ab8f5-aadf0004-6aefc9de-680b7834@5.5.5.226
CSeq: 101 REGISTER
Expires: 3600
Contact: <sip:3033101@5.5.5.226:5060;transport=udp>;+sip.instance="urn:uuid:00000000-0000-0000-0000-000ab8f5aadf">;+u.sip!model.ccm.cisco.com="7";x-cisco-newline
Supported: X-cisco-sis-5.0.0
Content-Length: 0

```

```

[diagram] Call-ID:[prev][next]
[9] NOTIFY sip:3033101@5.5.5.226:5060;transport=udp SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc84796d07cf
From: <sip:3033101@5.5.5.45>;tag=866393935
To: <sip:3033101@5.5.5.226>
Call-ID: fa834d00-b591e7ab-9b5-2d050505@5.5.5.45
CSeq: 101 NOTIFY
Max-Forwards: 70
Date: Fri, 22 Jan 2010 18:00:11 GMT
User-Agent: Cisco-CUCM8.0
Event: message-summary
Subscription-State: active
Contact: <sip:3033101@5.5.5.45:5060>
Content-Type: application/simple-message-summary
Content-Length: 22

```

Messages-Waiting: no

```

[diagram] Call-ID:[prev][next]
[10] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc8235ee8be1
From: <sip:5.5.5.45>;tag=1548119658
To: <sip:3033100@5.5.5.226>
Call-ID: fa834d00-b591e7ab-9b3-2d050505@5.5.5.45
CSeq: 101 NOTIFY
Content-Length: 0

```

```

[diagram] Call-ID:[prev][next]
[11] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc83514cd0f5
From: <sip:3033100@5.5.5.45>;tag=1559768704
To: <sip:3033100@5.5.5.226>
Call-ID: fa834d00-b591e7ab-9b4-2d050505@5.5.5.45
CSeq: 101 NOTIFY
Content-Length: 0

```

```

[diagram] Call-ID:[prev][next]
[12] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc84796d07cf
From: <sip:3033101@5.5.5.45>;tag=866393935
To: <sip:3033101@5.5.5.226>
Call-ID: fa834d00-b591e7ab-9b5-2d050505@5.5.5.45
CSeq: 101 NOTIFY

```

Content-Length: 0

9.4 Message Waiting Indication Off at Registration

Title: Message Waiting Indication Off at Registration

Description:

Line 3033100 on phone F has voicemail configured with no messages currently waiting. Note this phone may have lines other than 3033100. However this scenario focuses on Line 3033100.

When phone F first registers line 3033100 (either when it's created or after a power cycles, for example) Unified CM will inform the phone of line 3033100's MWI state.

In this case, Unified CM will send a NOTIFY containing a "Messages-Waiting: no" body for Line 3033100.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = F, Line = 3033100, IP = 5.5.5.226, Model = Cisco 7960 (SIP)

Scenario:

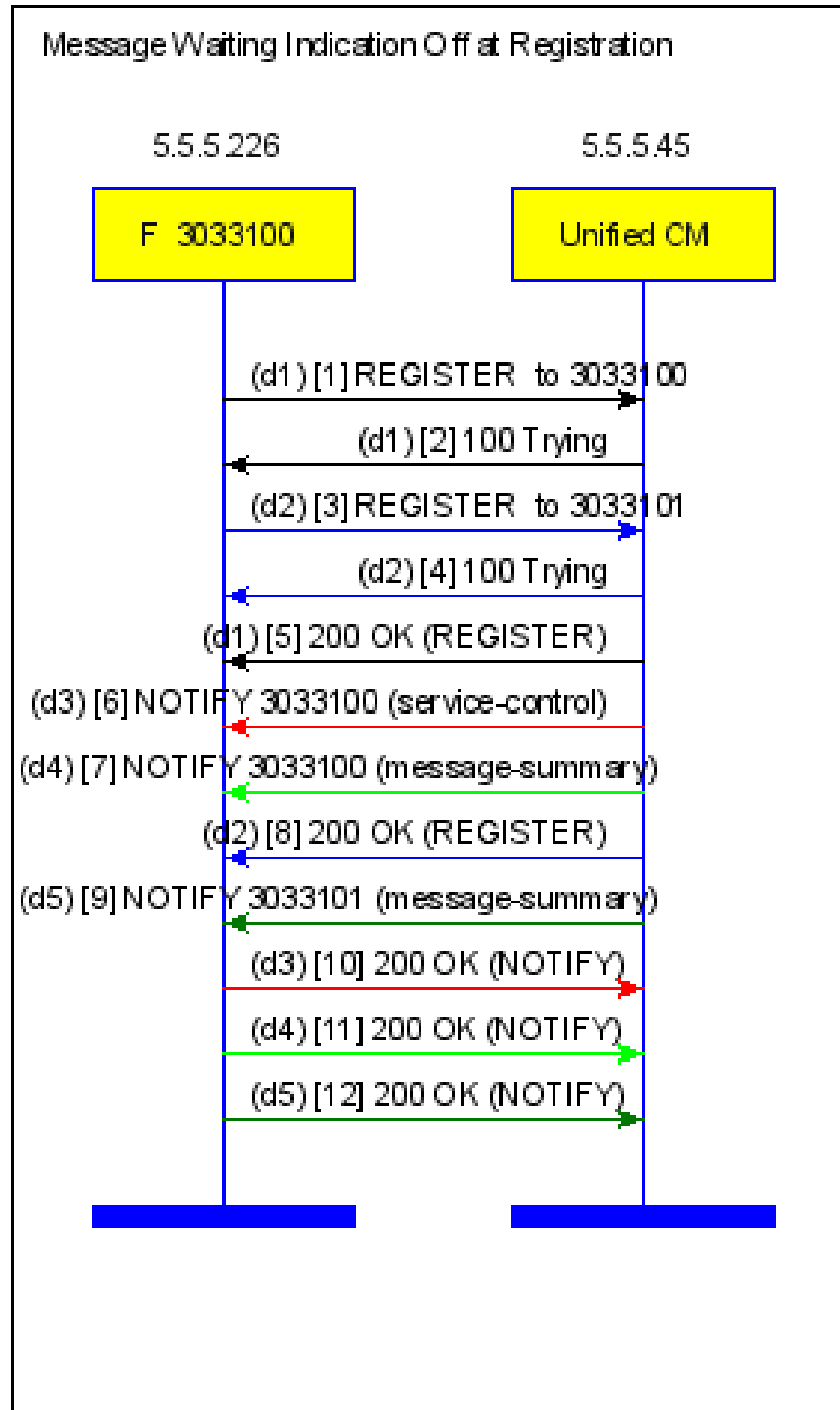
Phone F is powered on

Phone F gets NOTIFY with "Messages-Waiting: no"

(See Registration section for complete details)

Note:

The audio/telephone-event content type is binary. Currently, this content is not formatted into ASCII and displayed in the detailed messages. Instead, you will see "{binary content not shown}" in place of the actual binary content.



[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[1] REGISTER sip:titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK33df99ea
 From: <sip:3033100@titan-pub>;tag=000ab8f5aadf0002332f01b9-264ec9f6
 To: <sip:3033100@titan-pub>
 Call-ID: 000ab8f5-aadf0003-6ae62a1e-281a3955@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 REGISTER
 User-Agent: Cisco-CP7960G/8.0
 Contact: <sip:3033100@5.5.5.226:5060;transport=udp>;+sip.instance="urn:uuid:00000000-0000-0000-0000-000ab8f5aadf>";+u.sip!model.ccm.cisco.com="7"
 Supported: replaces,join,norefersub,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-service-control
 Content-Length: 0
 Expires: 3600

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK33df99ea
 From: <sip:3033100@titan-pub>;tag=000ab8f5aadf0002332f01b9-264ec9f6
 To: <sip:3033100@titan-pub>
 Date: Fri, 22 Jan 2010 18:06:09 GMT
 Call-ID: 000ab8f5-aadf0003-6ae62a1e-281a3955@5.5.5.226
 CSeq: 101 REGISTER
 Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[3] REGISTER sip:titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK53cc955c
 From: <sip:3033101@titan-pub>;tag=000ab8f5aadf00032b576e6a-2a0497bc
 To: <sip:3033101@titan-pub>
 Call-ID: 000ab8f5-aadf0004-4df16151-60dd376c@5.5.5.226
 Max-Forwards: 70
 CSeq: 101 REGISTER
 User-Agent: Cisco-CP7960G/8.0
 Contact: <sip:3033101@5.5.5.226:5060;transport=udp>;+sip.instance="urn:uuid:00000000-0000-0000-0000-000ab8f5aadf>";+u.sip!model.ccm.cisco.com="7"
 Supported: replaces,join,norefersub,X-cisco-callinfo,X-cisco-serviceuri,X-cisco-service-control
 Content-Length: 0
 Expires: 3600

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK53cc955c
 From: <sip:3033101@titan-pub>;tag=000ab8f5aadf00032b576e6a-2a0497bc
 To: <sip:3033101@titan-pub>
 Date: Fri, 22 Jan 2010 18:06:09 GMT
 Call-ID: 000ab8f5-aadf0004-4df16151-60dd376c@5.5.5.226
 CSeq: 101 REGISTER
 Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[5] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK33df99ea
 From: <sip:3033100@titan-pub>;tag=000ab8f5aadf0002332f01b9-264ec9f6
 To: <sip:3033100@titan-pub>;tag=394132572
 Date: Fri, 22 Jan 2010 18:06:09 GMT
 Call-ID: 000ab8f5-aadf0003-6ae62a1e-281a3955@5.5.5.226
 CSeq: 101 REGISTER
 Expires: 120
 Contact: <sip:3033100@5.5.5.226:5060;transport=udp>;+sip.instance="urn:uuid:00000000-0000-0000-0000-000ab8f5aadf>";+u.sip!model.ccm.cisco.com="7";x-cisco-newreg
 Supported: X-cisco-sis-5.0.0
 Content-Length: 0

[\[diagram\]](#) [Call-ID:\[prev\]](#) [\[next\]](#)

[6] NOTIFY sip:3033100@5.5.5.226:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc8947ae49b6
 From: <sip:5.5.5.45>;tag=160511331
 To: <sip:3033100@5.5.5.226>
 Call-ID: cfe5c400-b591e911-9b8-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 Max-Forwards: 70
 Date: Fri, 22 Jan 2010 18:06:09 GMT
 User-Agent: Cisco-CUCM8.0
 Event: service-control
 Subscription-State: active
 Contact: <sip:5.5.5.45:5060>
 Content-Type: text/plain
 Content-Length: 226

```

action=check-version
RegisterCallId={000ab8f5-aadf0003-6ae62a1e-281a3955@5.5.5.226}
ConfigVersionStamp={1263941778-68a9784e-7f08-4990-a4fa-90cb3472f8c5}
DialplanVersionStamp={1251475945-e4126fda-1e6b-4f76-81e8-f7eeb05cedfb}

```

```

[diagram] Call-ID:[prev][next]
[7] NOTIFY sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc8a37c6e00f
From: <sip:3033100@5.5.5.45>;tag=413151441
To: <sip:3033100@5.5.5.226>
Call-ID: cfe5c400-b591e911-9b9-2d050505@5.5.5.45
CSeq: 101 NOTIFY
Max-Forwards: 70
Date: Fri, 22 Jan 2010 18:06:09 GMT
User-Agent: Cisco-CUCM8.0
Event: message-summary
Subscription-State: active
Contact: <sip:3033100@5.5.5.45:5060>
Content-Type: application/simple-message-summary
Content-Length: 22

```

Messages-Waiting: no

```

[diagram] Call-ID:[prev][next]
[8] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK53cc955c
From: <sip:3033101@titan-pub>;tag=000ab8f5aadf00032b576e6a-2a0497bc
To: <sip:3033101@titan-pub>;tag=1447842449
Date: Fri, 22 Jan 2010 18:06:09 GMT
Call-ID: 000ab8f5-aadf0004-4df16151-60dd376c@5.5.5.226
CSeq: 101 REGISTER
Expires: 3600
Contact: <sip:3033101@5.5.5.226:5060;transport=udp>;+sip.instance="urn:uuid:00000000-0000-0000-0000-000ab8f5aadf">;+u.sip!model.ccm.cisco.com="7";x-cisco-newline
Supported: X-cisco-sis-5.0.0
Content-Length: 0

```

```

[diagram] Call-ID:[prev][next]
[9] NOTIFY sip:3033101@5.5.5.226:5060;transport=udp SIP/2.0
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc8b49705799
From: <sip:3033101@5.5.5.45>;tag=1399300623
To: <sip:3033101@5.5.5.226>
Call-ID: cfe5c400-b591e911-9ba-2d050505@5.5.5.45
CSeq: 101 NOTIFY
Max-Forwards: 70
Date: Fri, 22 Jan 2010 18:06:09 GMT
User-Agent: Cisco-CUCM8.0
Event: message-summary
Subscription-State: active
Contact: <sip:3033101@5.5.5.45:5060>
Content-Type: application/simple-message-summary
Content-Length: 22

```

Messages-Waiting: no

```

[diagram] Call-ID:[prev][next]
[10] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc8947ae49b6
From: <sip:5.5.5.45>;tag=160511331
To: <sip:3033100@5.5.5.226>
Call-ID: cfe5c400-b591e911-9b8-2d050505@5.5.5.45
CSeq: 101 NOTIFY
Content-Length: 0

```

```

[diagram] Call-ID:[prev][next]
[11] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc8a37c6e00f
From: <sip:3033100@5.5.5.45>;tag=413151441
To: <sip:3033100@5.5.5.226>
Call-ID: cfe5c400-b591e911-9b9-2d050505@5.5.5.45
CSeq: 101 NOTIFY
Content-Length: 0

```

```

[diagram] Call-ID:[prev][next]
[12] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc8b49705799
From: <sip:3033101@5.5.5.45>;tag=1399300623
To: <sip:3033101@5.5.5.226>
Call-ID: cfe5c400-b591e911-9ba-2d050505@5.5.5.45
CSeq: 101 NOTIFY

```

Content-Length: 0

10. Video

10.1 Basic Call - SIP Video Phone calls another SIP Video Phone

Title: Basic Call - SIP Video Phone calls another SIP Video Phone

Description:

A SIP Video Phone phone calls another SIP Video Phone

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = Q, Line = 3881050, IP = 5.5.5.207, Model = SIP Video Phone

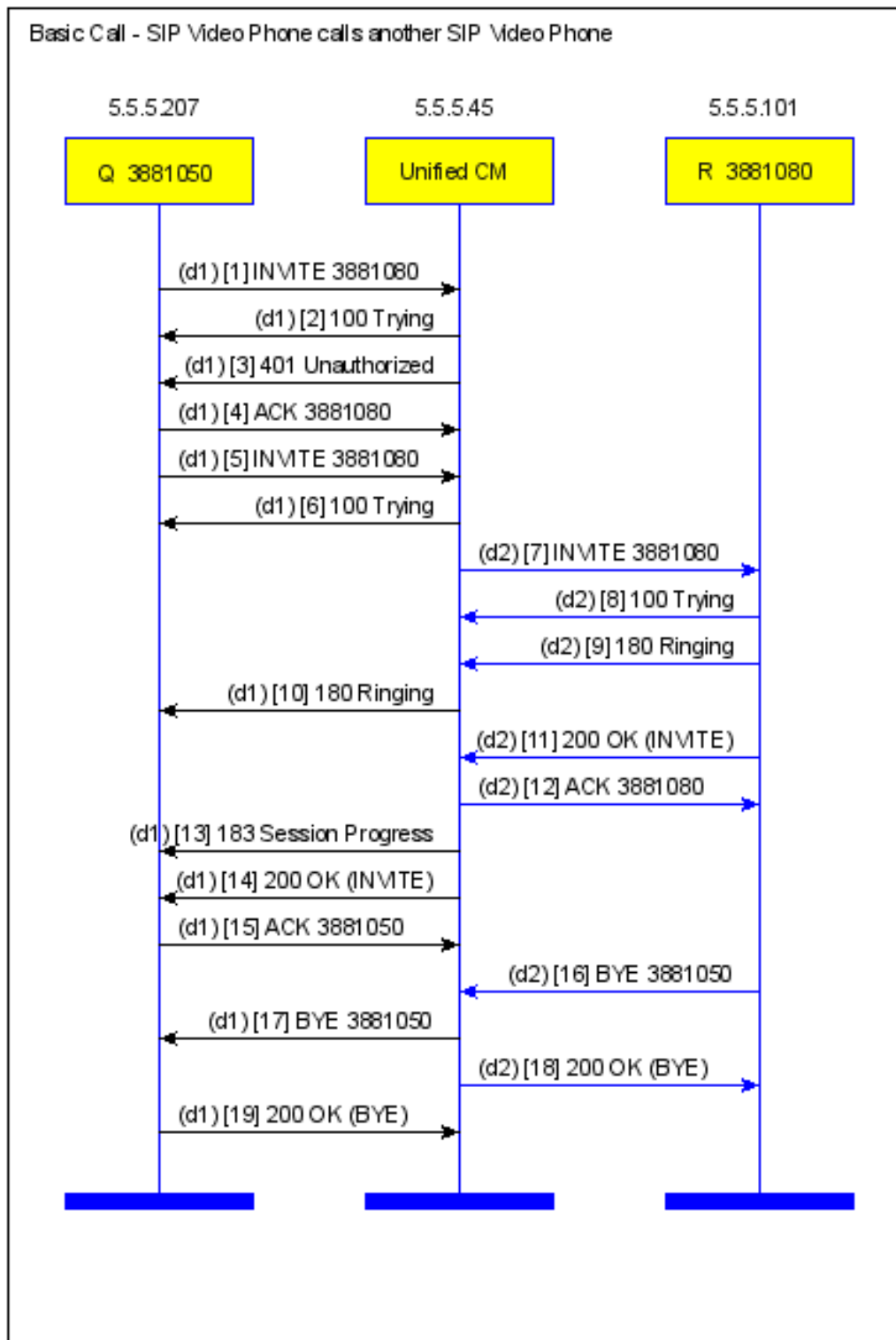
Phone = R, Line = 3881080, IP = 5.5.5.101, Model = SIP Video Phone

Scenario:

3881050 calls 3881080

3881080 answers

3881080 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3881080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK8d767243d0809d80
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190
 To: <sip:3881080@titan-pub.sipnet5.com;user=phone>
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Supported: replaces, timer, path
 Call-ID: 2c863b03ff4287b0@5.5.5.207
 CSeq: 16603 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
 Content-Type: application/sdp
 Content-Length: 410

```
v=0
o=3881050 8000 8000 IN IP4 5.5.5.207
s=SIP Call
c=IN IP4 5.5.5.207
t=0 0
m=audio 5004 RTP/AVP 0 8 4 18 3 101
a=sendrecv
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:4 G723/8000
a=rtpmap:18 G729/8000
a=rtpmap:3 GSM/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-11
m=video 5006 RTP/AVP 34
a=sendrecv
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1 MaxBR=5120
a=framerate:30
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Date: Tue, 15 Jul 2008 15:41:03 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3881080@titan-pub.sipnet5.com;user=phone>
 Call-ID: 2c863b03ff4287b0@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK8d767243d0809d80
 CSeq: 16603 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 401 Unauthorized

Date: Tue, 15 Jul 2008 15:41:03 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190
 Allow-Events: presence
 WWW-Authenticate: Digest realm="ccmsipline", nonce="TNWvsB3Du60Bg/gXHj0aRukfpg9Dxwbq", algorithm=MD5
 Content-Length: 0
 To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=815250348
 Call-ID: 2c863b03ff4287b0@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK8d767243d0809d80
 CSeq: 16603 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] ACK sip:3881080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK8d767243d0809d80
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190
 To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=815250348
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Call-ID: 2c863b03ff4287b0@5.5.5.207
 CSeq: 16603 ACK
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] INVITE sip:3881080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK0194d18236b5f615
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190
 To: <sip:3881080@titan-pub.sipnet5.com;user=phone>
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Supported: replaces, timer, path
 Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3881080@titan-


```
pub.sipnet5.com;user=phone", nonce="TNWvsB3Du60Bg/gXHj0aRukfpg9Dxwbq",
response="05a51780f6be39a3128b9a0ba4674b3c"
Call-ID: 2c863b03ff4287b0@5.5.5.207
CSeq: 16604 INVITE
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Content-Type: application/sdp
Content-Length: 410
```

```
v=0
o=3881050 8000 8001 IN IP4 5.5.5.207
s=SIP Call
c=IN IP4 5.5.5.207
t=0 0
m=audio 5004 RTP/AVP 0 8 4 18 3 101
a=sendrecv
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:4 G723/8000
a=rtpmap:18 G729/8000
a=rtpmap:3 GSM/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-11
m=video 5006 RTP/AVP 34
a=sendrecv
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1 MaxBR=5120
a=framerate:30
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[6] SIP/2.0 100 Trying

```
Date: Tue, 15 Jul 2008 15:41:03 GMT
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190
Allow-Events: presence
Content-Length: 0
To: <sip:3881080@titan-pub.sipnet5.com;user=phone>
Call-ID: 2c863b03ff4287b0@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK0194d18236b5f615
CSeq: 16604 INVITE
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[7] INVITE sip:3881080@5.5.5.101:5060;user=phone SIP/2.0

```
Date: Tue, 15 Jul 2008 15:41:03 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704684
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "GXV3000 - 3881050" <sip:3881050@5.5.5.45;x-cisco-callback-
number=3881050>;party=calling;screen=yes;privacy=off
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3881080@5.5.5.101>
Contact: <sip:3881050@5.5.5.45:5060>;video;audio
Expires: 180
Call-ID: 6d0a9700-87c1c50f-34-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1012ab7369
CSeq: 101 INVITE
Max-Forwards: 69
Alert-Info: <file://Bellcore-dr1/>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[8] SIP/2.0 100 Trying

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1012ab7369
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704684
To: <sip:3881080@5.5.5.101>
Call-ID: 6d0a9700-87c1c50f-34-2d050505@5.5.5.45
CSeq: 101 INVITE
User-Agent: Grandstream GXV3000 1.1.3.14
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 180 Ringing

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1012ab7369
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704684
To: <sip:3881080@5.5.5.101>;tag=6b57a6b7a594c8c0
Call-ID: 6d0a9700-87c1c50f-34-2d050505@5.5.5.45
CSeq: 101 INVITE
```

User-Agent: Grandstream GXV3000 1.1.3.14
 Contact: <sip:3881080@5.5.5.101:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 180 Ringing

Date: Tue, 15 Jul 2008 15:41:03 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190
 Allow-Events: presence
 Remote-Party-ID: "GXV3000 - 3881080" <sip:3881080@5.5.5.45>;party=called;screen=no;privacy=off
 Content-Length: 0
 To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704683
 Contact: <sip:3881050@5.5.5.45:5060>
 Call-ID: 2c863b03ff4287b0@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK0194d18236b5f615
 CSeq: 16604 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1012ab7369
 From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704684
 To: <sip:3881080@5.5.5.101>;tag=6b57a6b7a594c8c0
 Call-ID: 6d0a9700-87c1c50f-34-2d050505@5.5.5.45
 CSeq: 101 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Contact: <sip:3881080@5.5.5.101:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Type: application/sdp
 Supported: replaces, timer, 100rel, path
 Content-Length: 410

v=0
 o=3881080 8000 8000 IN IP4 5.5.5.101
 s=SIP Call
 c=IN IP4 5.5.5.101
 t=0 0
 m=audio 5004 RTP/AVP 0 8 4 18 3 101
 a=sendrecv
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:4 G723/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:3 GSM/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-11
 m=video 5006 RTP/AVP 34
 a=sendrecv
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120
 a=framerate:30

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] ACK sip:3881080@5.5.5.101:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 15:41:03 GMT
 From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704684
 Allow-Events: presence
 Content-Length: 296
 To: <sip:3881080@5.5.5.101>;tag=6b57a6b7a594c8c0
 Content-Type: application/sdp
 Call-ID: 6d0a9700-87c1c50f-34-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK112a8e95fe
 CSeq: 101 ACK
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 m=video 5006 RTP/AVP 34
 b=TIAS:384000
 a=rtpmap:34 H263/90000

a=fmtp:34 CIF=1;MAXBR=3840

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 183 Session Progress

Date: Tue, 15 Jul 2008 15:41:03 GMT

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190

Allow-Events: presence

Remote-Party-ID: "GXV3000 - 3881080" <sip:3881080@5.5.5.45>;party=called;screen=no;privacy=off

Content-Length: 296

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704683

Contact: <sip:3881050@5.5.5.45:5060>

Content-Type: application/sdp

Call-ID: 2c863b03ff4287b0@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK0194d18236b5f615

CSeq: 16604 INVITE

v=0

o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45

s=SIP Call

c=IN IP4 5.5.5.101

t=0 0

m=audio 5004 RTP/AVP 0 101

a=rtpmap:0 PCMU/8000

a=ptime:20

a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-15

m=video 5006 RTP/AVP 34

b=TIAS:384000

a=rtpmap:34 H263/90000

a=fmtp:34 CIF=1;MAXBR=3840

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 15:41:03 GMT

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190

Allow-Events: presence

Supported: replaces

Remote-Party-ID: "GXV3000 - 3881080" <sip:3881080@5.5.5.45>;party=called;screen=no;privacy=off

Content-Length: 296

Require: timer

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704683

Contact: <sip:3881050@5.5.5.45:5060>

Content-Type: application/sdp

Call-ID: 2c863b03ff4287b0@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK0194d18236b5f615

CSeq: 16604 INVITE

Session-Expires: 1800;refresher=uas

v=0

o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45

s=SIP Call

c=IN IP4 5.5.5.101

t=0 0

m=audio 5004 RTP/AVP 0 101

a=rtpmap:0 PCMU/8000

a=ptime:20

a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-15

m=video 5006 RTP/AVP 34

b=TIAS:384000

a=rtpmap:34 H263/90000

a=fmtp:34 CIF=1;MAXBR=3840

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] ACK sip:3881050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK18130dd76de3edf0

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704683

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3881080@titan-pub.sipnet5.com;user=phone", nonce="TNWvsB3Du60Bg/gXHj0aRukfpg9Dxwbq", response="05a51780f6be39a3128b9a0ba4674b3c"

Call-ID: 2c863b03ff4287b0@5.5.5.207

CSeq: 16604 ACK

User-Agent: Grandstream GXV3000 1.1.3.14

Max-Forwards: 70

Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK

Content-Length: 0

[diagram] Call-ID: [prev][next]

[16] BYE sip:3881050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.101:5060;branch=z9hG4bKbcd7e055f4c72190

From: <sip:3881080@5.5.5.101>;tag=6b57a6b7a594c8c0

To: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704684

Call-ID: 6d0a9700-87c1c50f-34-2d050505@5.5.5.45

CSeq: 3514 BYE

User-Agent: Grandstream GXV3000 1.1.3.14

Max-Forwards: 70

Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK

Content-Length: 0

[diagram] Call-ID: [prev][next]

[17] BYE sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 15:41:06 GMT

From: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704683

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190

Call-ID: 2c863b03ff4287b0@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK124feaa288

CSeq: 101 BYE

Max-Forwards: 70

[diagram] Call-ID: [prev][next]

[18] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 15:41:14 GMT

From: <sip:3881080@5.5.5.101>;tag=6b57a6b7a594c8c0

Content-Length: 0

To: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704684

Call-ID: 6d0a9700-87c1c50f-34-2d050505@5.5.5.45

Via: SIP/2.0/UDP 5.5.5.101:5060;branch=z9hG4bKbcd7e055f4c72190

CSeq: 3514 BYE

[diagram] Call-ID: [prev][next]

[19] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK124feaa288

From: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704683

To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=add7d0c1dc057190

Call-ID: 2c863b03ff4287b0@5.5.5.207

CSeq: 101 BYE

User-Agent: Grandstream GXV3000 1.1.3.14

Session-Expires: 1800;refresher=uac

Min-SE: 1800

Require: timer

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK

Supported: replaces, timer, 100rel, path

Content-Length: 0

10.2 Basic Call - SIP Video Phone calls a Cisco 7985 video phone

Title: Basic Call - SIP Video Phone calls a Cisco 7985 video phone

Description:

A SIP Video Phone phone calls a Cisco 7985 video phone

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = Q, Line = 3881050, IP = 5.5.5.207, Model = SIP Video Phone

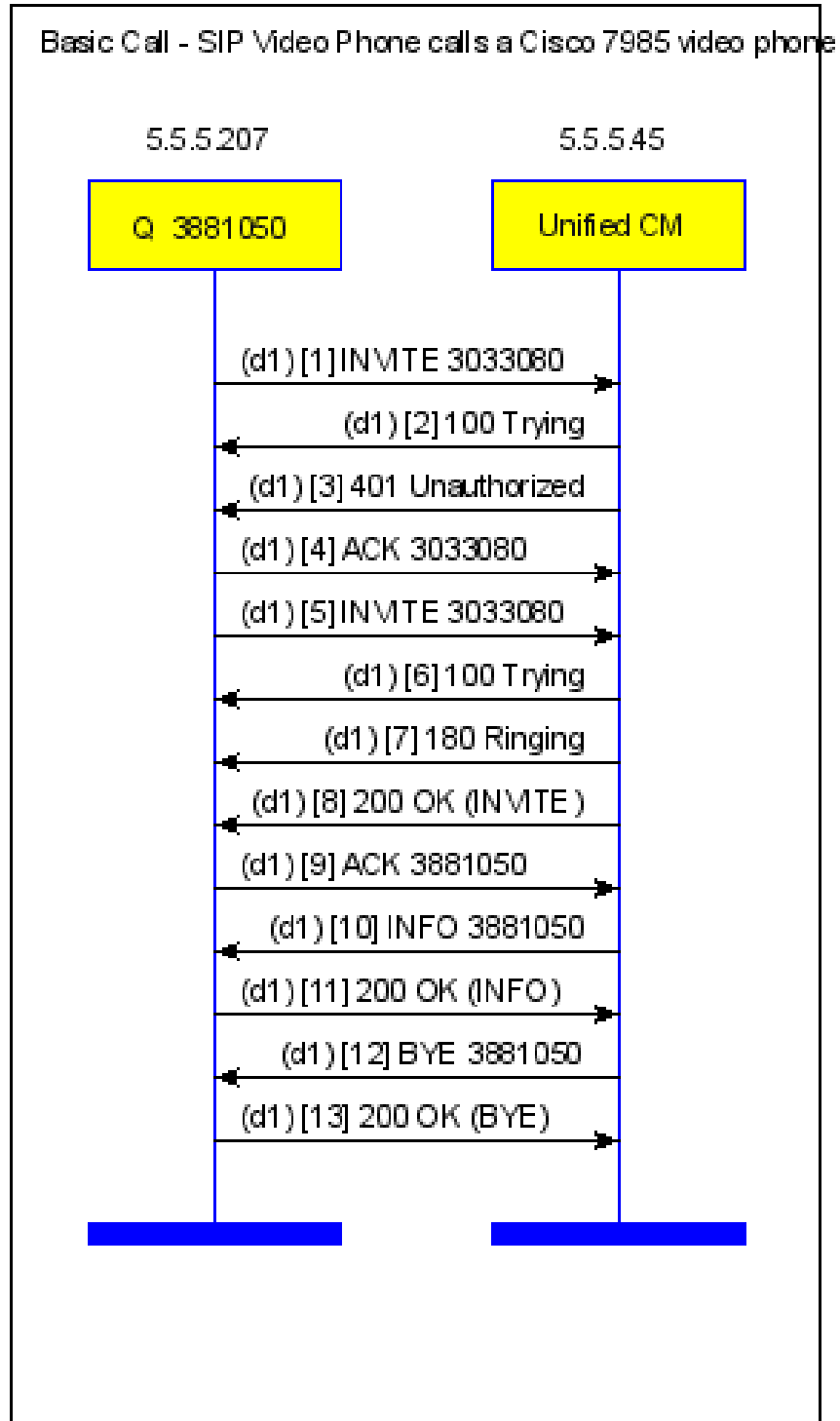
Phone = S, Line = 3033080, IP = 5.5.5.224, Model = Cisco 7985

Scenario:

3881050 calls 3033080

3033080 answers

3033080 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3033080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK8e04007690a684e2
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Supported: replaces, timer, path
 Call-ID: 93c36e9428a068e2@5.5.5.207
 CSeq: 27697 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
 Content-Type: application/sdp
 Content-Length: 410

```
v=0
o=3881050 8000 8000 IN IP4 5.5.5.207
s=SIP Call
c=IN IP4 5.5.5.207
t=0 0
m=audio 5004 RTP/AVP 0 8 4 18 3 101
a=sendrecv
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:4 G723/8000
a=rtpmap:18 G729/8000
a=rtpmap:3 GSM/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-11
m=video 5006 RTP/AVP 34
a=sendrecv
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1 MaxBR=5120
a=framerate:30
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Date: Tue, 15 Jul 2008 15:44:52 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
 Call-ID: 93c36e9428a068e2@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK8e04007690a684e2
 CSeq: 27697 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 401 Unauthorized

Date: Tue, 15 Jul 2008 15:44:52 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
 Allow-Events: presence
 WWW-Authenticate: Digest realm="ccmsipline", nonce="c6H4g12zK8GP6L/ofqDkQzi0lIr034S3", algorithm=MD5
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=839009974
 Call-ID: 93c36e9428a068e2@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK8e04007690a684e2
 CSeq: 27697 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] ACK sip:3033080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK8e04007690a684e2
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=839009974
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Call-ID: 93c36e9428a068e2@5.5.5.207
 CSeq: 27697 ACK
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] INVITE sip:3033080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK5140446249d27093
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Supported: replaces, timer, path
 Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3033080@titan-

```
pub.sipnet5.com;user=phone", nonce="c6H4g12zK8GP6L/ofqDkQzi0lIr034S3",
response="baeda65cb296dd6c821caa0bca6103d6"
Call-ID: 93c36e9428a068e2@5.5.5.207
CSeq: 27698 INVITE
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Content-Type: application/sdp
Content-Length: 410
```

```
v=0
o=3881050 8000 8001 IN IP4 5.5.5.207
s=SIP Call
c=IN IP4 5.5.5.207
t=0 0
m=audio 5004 RTP/AVP 0 8 4 18 3 101
a=sendrecv
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:4 G723/8000
a=rtpmap:18 G729/8000
a=rtpmap:3 GSM/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-11
m=video 5006 RTP/AVP 34
a=sendrecv
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1 MaxBR=5120
a=framerate:30
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[6] SIP/2.0 100 Trying

```
Date: Tue, 15 Jul 2008 15:44:52 GMT
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
Allow-Events: presence
Content-Length: 0
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
Call-ID: 93c36e9428a068e2@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK5140446249d27093
CSeq: 27698 INVITE
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[7] SIP/2.0 180 Ringing

```
Date: Tue, 15 Jul 2008 15:44:52 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
Allow-Events: presence
Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 0
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704685
Contact: <sip:3881050@5.5.5.45:5060>
Call-ID: 93c36e9428a068e2@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK5140446249d27093
CSeq: 27698 INVITE
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[8] SIP/2.0 200 OK

```
Date: Tue, 15 Jul 2008 15:44:52 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 242
Require: timer
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704685
Contact: <sip:3881050@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 93c36e9428a068e2@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK5140446249d27093
CSeq: 27698 INVITE
Session-Expires: 1800;refresher=uas
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.224
t=0 0
m=audio 20000 RTP/AVP 0
```



```
a=rtpmap:0 PCMU/8000
a=ptime:20
m=video 20002 RTP/AVP 34
b=TIAS:384000
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1;MAXBR=3200
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] ACK sip:3881050@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK4106374676f79191
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704685
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3033080@titan-pub.sipnet5.com;user=phone", nonce="c6H4g12zK8GP6L/ofqDkQzi0lIr034S3",
response="baeda65cb296dd6c821caa0bca6103d6"
Call-ID: 93c36e9428a068e2@5.5.5.207
CSeq: 27698 ACK
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] INFO sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

```
Date: Tue, 15 Jul 2008 15:44:54 GMT
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704685
Content-Length: 190
User-Agent: Cisco-CUCM7.0
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
Contact: <sip:3033080@5.5.5.45:5060>
Content-Type: application/media_control+xml
Call-ID: 93c36e9428a068e2@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK134acc5e9e
CSeq: 101 INFO
Max-Forwards: 70
```

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<media_control>
```

```
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
```

```
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK134acc5e9e
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704685
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
Call-ID: 93c36e9428a068e2@5.5.5.207
CSeq: 101 INFO
User-Agent: Grandstream GXV3000 1.1.3.14
Session-Expires: 1800;refresher=uac
Min-SE: 1800
Require: timer
Supported: replaces, timer, 100rel, path
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] BYE sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

```
Date: Tue, 15 Jul 2008 15:44:54 GMT
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704685
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
Call-ID: 93c36e9428a068e2@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK147a938839
CSeq: 102 BYE
Max-Forwards: 70
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK147a938839
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704685
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=c9c7757697f30d32
Call-ID: 93c36e9428a068e2@5.5.5.207
```

CSeq: 102 BYE
User-Agent: Grandstream GXV3000 1.1.3.14
Session-Expires: 1800;refresher=uac
Min-SE: 1800
Require: timer
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Supported: replaces, timer, 100rel, path
Content-Length: 0

10.3 Basic Call - CUPC SIP endpoint calls a SIP Video Phone

Title: Basic Call - CUPC SIP endpoint calls a SIP Video Phone

Description:

A CUPC SIP endpoint phone calls a SIP Video Phone. Note the CUPC portion of the call is not shown. Only the SIP Video phone portion is shown.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = P, Line = 3501000, IP = 5.5.5.14, Model = CUPC

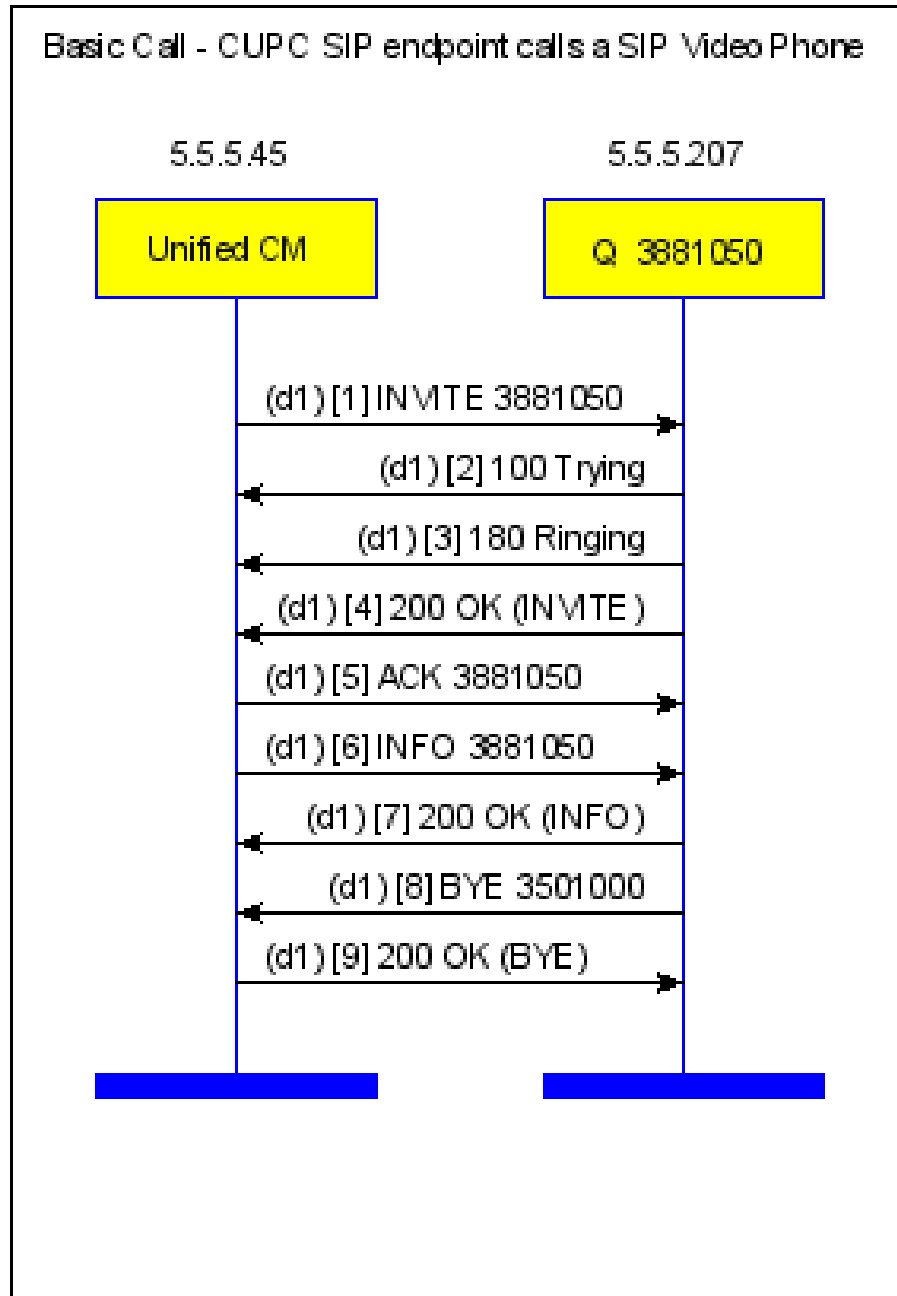
Phone = Q, Line = 3881050, IP = 5.5.5.207, Model = SIP Video Phone

Scenario:

3501000 calls 3881050

3881050 answers

3881050 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 18:13:55 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "CUPC 3501000" <sip:3501000@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-49519810
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "CUPC 3501000" <sip:3501000@5.5.5.45;x-cisco-callback-number=3501000>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3881050@5.5.5.207>
 Contact: <sip:3501000@5.5.5.45:5060>;video;audio
 Expires: 180
 Call-ID: c7fab900-87c1e8e3-1c0-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4c142e4744
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4c142e4744
 From: "CUPC 3501000" <sip:3501000@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-49519810
 To: <sip:3881050@5.5.5.207>
 Call-ID: c7fab900-87c1e8e3-1c0-2d050505@5.5.5.45
 CSeq: 101 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4c142e4744
 From: "CUPC 3501000" <sip:3501000@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-49519810
 To: <sip:3881050@5.5.5.207>;tag=d23647e63be2f534
 Call-ID: c7fab900-87c1e8e3-1c0-2d050505@5.5.5.45
 CSeq: 101 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4c142e4744
 From: "CUPC 3501000" <sip:3501000@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-49519810
 To: <sip:3881050@5.5.5.207>;tag=d23647e63be2f534
 Call-ID: c7fab900-87c1e8e3-1c0-2d050505@5.5.5.45
 CSeq: 101 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Type: application/sdp
 Supported: replaces, timer, 100rel, path
 Content-Length: 410

v=0
 o=3881050 8000 8000 IN IP4 5.5.5.207
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 8 4 18 3 101
 a=sendrecv
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:4 G723/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:3 GSM/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-11
 m=video 5006 RTP/AVP 34
 a=sendrecv
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120
 a=framerate:30

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] ACK sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 18:13:55 GMT
 From: "CUPC 3501000" <sip:3501000@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-49519810
 Allow-Events: presence
 Content-Length: 318
 To: <sip:3881050@5.5.5.207>;tag=d23647e63be2f534
 Content-Type: application/sdp
 Call-ID: c7fab900-87c1e8e3-1c0-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4d2c0591bb
 CSeq: 101 ACK
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.14
 t=0 0
 m=audio 16386 RTP/AVP 0 101
 b=TIAS:64000
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 m=video 16388 RTP/AVP 34
 b=TIAS:384000
 a=rtpmap:34 H263/90000
 a=fmtp:34 QCIF=1;CIF=1;MAXBR=3840

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[6] INFO sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 18:13:55 GMT
 From: "CUPC 3501000" <sip:3501000@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-49519810
 Remote-Party-ID: "CUPC 3501000" <sip:3501000@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 190
 User-Agent: Cisco-CUCM7.0
 To: <sip:3881050@5.5.5.207>;tag=d23647e63be2f534
 Contact: <sip:3501000@5.5.5.45:5060>
 Content-Type: application/media_control+xml
 Call-ID: c7fab900-87c1e8e3-1c0-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4efd04177
 CSeq: 102 INFO
 Max-Forwards: 70

<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
 <media_control>

```
<vc_primitive>
  <to_encoder>
    <picture_fast_update/>
  </to_encoder>
</vc_primitive>
```

</media_control>

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4efd04177
 From: "CUPC 3501000" <sip:3501000@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-49519810
 To: <sip:3881050@5.5.5.207>;tag=d23647e63be2f534
 Call-ID: c7fab900-87c1e8e3-1c0-2d050505@5.5.5.45
 CSeq: 102 INFO
 User-Agent: Grandstream GXV3000 1.1.3.14
 Supported: replaces, timer, 100rel, path
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[8] BYE sip:3501000@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK683118906697d8f6
 From: <sip:3881050@5.5.5.207>;tag=d23647e63be2f534
 To: "CUPC 3501000" <sip:3501000@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-49519810
 Call-ID: c7fab900-87c1e8e3-1c0-2d050505@5.5.5.45
 CSeq: 14345 BYE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 18:14:04 GMT
 From: <sip:3881050@5.5.5.207>;tag=d23647e63be2f534

Content-Length: 0
To: "CUPC 3501000" <sip:3501000@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-49519810
Call-ID: c7fab900-87c1e8e3-1c0-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK683118906697d8f6
CSeq: 14345 BYE

10.4 Hold Resume - SIP video endpoints

Title: Hold Resume - SIP video endpoints

Description:

A SIP Video hone calls another SIP Video phone and performs a hold and resume.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = Q, Line = 3881050, IP = 5.5.5.207, Model = SIP Video Phone

Phone = R, Line = 3881080, IP = 5.5.5.101, Model = SIP Video Phone

Scenario:

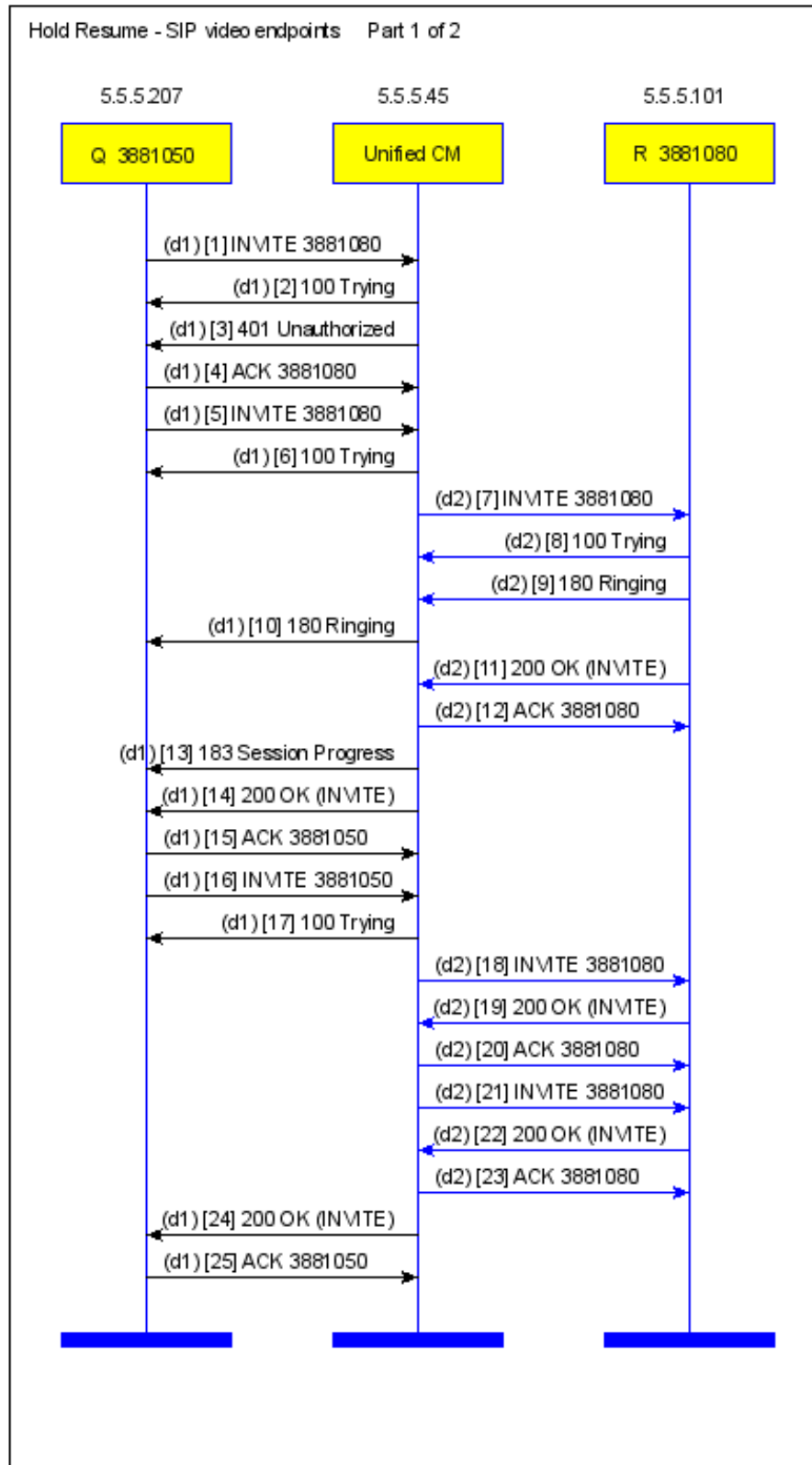
3881050 calls 3881080

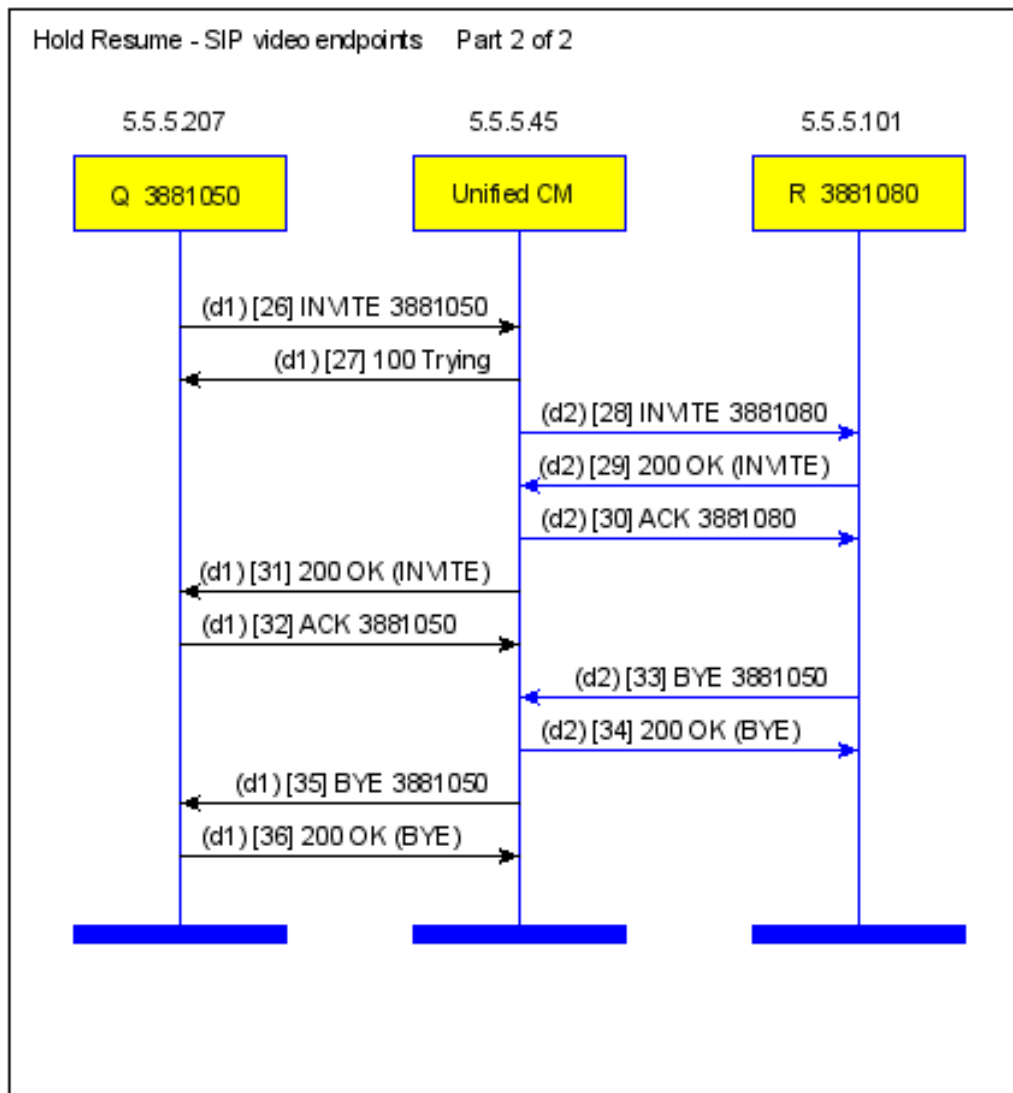
3881080 answers

3881050 presses hold

3881050 presses resume

3881080 goes onhook





[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3881080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK54d0754781b57734

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Supported: replaces, timer, path

Call-ID: 9eb4be06d253b090@5.5.5.207

CSeq: 30870 INVITE

User-Agent: Grandstream GXV3000 1.1.3.14

Max-Forwards: 70

Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK

Content-Type: application/sdp

Content-Length: 410

v=0

o=3881050 8000 8000 IN IP4 5.5.5.207

s=SIP Call

c=IN IP4 5.5.5.207

t=0 0

m=audio 5004 RTP/AVP 0 8 4 18 3 101

a=sendrecv

a=rtpmap:0 PCMU/8000

a=rtpmap:8 PCMA/8000

a=rtpmap:4 G723/8000

a=rtpmap:18 G729/8000

a=rtpmap:3 GSM/8000

aptime:20

a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-11

m=video 5006 RTP/AVP 34

a=sendrecv

a=rtpmap:34 H263/90000

a=fmtp:34 CIF=1 MaxBR=5120

a=framerate:30

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Date: Tue, 15 Jul 2008 17:37:34 GMT

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

Allow-Events: presence

Content-Length: 0

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>

Call-ID: 9eb4be06d253b090@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK54d0754781b57734

CSeq: 30870 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 401 Unauthorized

Date: Tue, 15 Jul 2008 17:37:34 GMT

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

Allow-Events: presence

WWW-Authenticate: Digest realm="ccmsipline", nonce="KAee/vjRI0weoG2xWJCHrol0Ld0CN3Dy", algorithm=MD5

Content-Length: 0

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=333172812

Call-ID: 9eb4be06d253b090@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK54d0754781b57734

CSeq: 30870 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] ACK sip:3881080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK54d0754781b57734

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=333172812

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Call-ID: 9eb4be06d253b090@5.5.5.207

CSeq: 30870 ACK

User-Agent: Grandstream GXV3000 1.1.3.14

Max-Forwards: 70

Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] INVITE sip:3881080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKcfa327a031c59f67

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Supported: replaces, timer, path

Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3881080@titan-

```
pub.sipnet5.com;user=phone", nonce="KAee/vjRI0weoG2xWJChrol0Ld0CN3Dy",
response="38eb248d5eda786da63105913bc632a4"
Call-ID: 9eb4be06d253b090@5.5.5.207
CSeq: 30871 INVITE
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Content-Type: application/sdp
Content-Length: 410
```

```
v=0
o=3881050 8000 8001 IN IP4 5.5.5.207
s=SIP Call
c=IN IP4 5.5.5.207
t=0 0
m=audio 5004 RTP/AVP 0 8 4 18 3 101
a=sendrecv
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:4 G723/8000
a=rtpmap:18 G729/8000
a=rtpmap:3 GSM/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-11
m=video 5006 RTP/AVP 34
a=sendrecv
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1 MaxBR=5120
a=framerate:30
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[6] SIP/2.0 100 Trying

```
Date: Tue, 15 Jul 2008 17:37:34 GMT
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7
Allow-Events: presence
Content-Length: 0
To: <sip:3881080@titan-pub.sipnet5.com;user=phone>
Call-ID: 9eb4be06d253b090@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKcfa327a031c59f67
CSeq: 30871 INVITE
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[7] INVITE sip:3881080@5.5.5.101:5060;user=phone SIP/2.0

```
Date: Tue, 15 Jul 2008 17:37:34 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "GXV3000 - 3881050" <sip:3881050@5.5.5.45;x-cisco-callback-
number=3881050>;party=calling;screen=yes;privacy=off
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3881080@5.5.5.101>
Contact: <sip:3881050@5.5.5.45:5060>;video;audio
Expires: 180
Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1539def16a
CSeq: 101 INVITE
Max-Forwards: 69
Alert-Info: <file://Bellcore-dr1/>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[8] SIP/2.0 100 Trying

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1539def16a
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
To: <sip:3881080@5.5.5.101>
Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
CSeq: 101 INVITE
User-Agent: Grandstream GXV3000 1.1.3.14
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 180 Ringing

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1539def16a
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dccc
Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
CSeq: 101 INVITE
```

User-Agent: Grandstream GXV3000 1.1.3.14
 Contact: <sip:3881080@5.5.5.101:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[10] SIP/2.0 180 Ringing

Date: Tue, 15 Jul 2008 17:37:34 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7
 Allow-Events: presence
 Remote-Party-ID: "GXV3000 - 3881080" <sip:3881080@5.5.5.45>;party=called;screen=no;privacy=off
 Content-Length: 0
 To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687
 Contact: <sip:3881050@5.5.5.45:5060>
 Call-ID: 9eb4be06d253b090@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKcfa327a031c59f67
 CSeq: 30871 INVITE

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[11] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1539def16a
 From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
 To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dccc6
 Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
 CSeq: 101 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Contact: <sip:3881080@5.5.5.101:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Type: application/sdp
 Supported: replaces, timer, 100rel, path
 Content-Length: 410

v=0
 o=3881080 8000 8000 IN IP4 5.5.5.101
 s=SIP Call
 c=IN IP4 5.5.5.101
 t=0 0
 m=audio 5004 RTP/AVP 0 8 4 18 3 101
 a=sendrecv
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:4 G723/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:3 GSM/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-11
 m=video 5006 RTP/AVP 34
 a=sendrecv
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120
 a=framerate:30

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[12] ACK sip:3881080@5.5.5.101:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 17:37:34 GMT
 From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
 Allow-Events: presence
 Content-Length: 296
 To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dccc6
 Content-Type: application/sdp
 Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK163d01e0f6
 CSeq: 101 ACK
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 m=video 5006 RTP/AVP 34
 b=TIAS:384000
 a=rtpmap:34 H263/90000

a=fmtp:34 CIF=1;MAXBR=3840

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[13] SIP/2.0 183 Session Progress

Date: Tue, 15 Jul 2008 17:37:34 GMT

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

Allow-Events: presence

Remote-Party-ID: "GXV3000 - 3881080" <sip:3881080@5.5.5.45>;party=called;screen=no;privacy=off

Content-Length: 296

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687

Contact: <sip:3881050@5.5.5.45:5060>

Content-Type: application/sdp

Call-ID: 9eb4be06d253b090@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKcfa327a031c59f67

CSeq: 30871 INVITE

v=0

o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45

s=SIP Call

c=IN IP4 5.5.5.101

t=0 0

m=audio 5004 RTP/AVP 0 101

a=rtpmap:0 PCMU/8000

a=ptime:20

a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-15

m=video 5006 RTP/AVP 34

b=TIAS:384000

a=rtpmap:34 H263/90000

a=fmtp:34 CIF=1;MAXBR=3840

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[14] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 17:37:34 GMT

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

Allow-Events: presence

Supported: replaces

Remote-Party-ID: "GXV3000 - 3881080" <sip:3881080@5.5.5.45>;party=called;screen=no;privacy=off

Content-Length: 296

Require: timer

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687

Contact: <sip:3881050@5.5.5.45:5060>

Content-Type: application/sdp

Call-ID: 9eb4be06d253b090@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKcfa327a031c59f67

CSeq: 30871 INVITE

Session-Expires: 1800;refresher=uas

v=0

o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45

s=SIP Call

c=IN IP4 5.5.5.101

t=0 0

m=audio 5004 RTP/AVP 0 101

a=rtpmap:0 PCMU/8000

a=ptime:20

a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-15

m=video 5006 RTP/AVP 34

b=TIAS:384000

a=rtpmap:34 H263/90000

a=fmtp:34 CIF=1;MAXBR=3840

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[15] ACK sip:3881050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK89b20bb36ad536f6

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3881080@titan-pub.sipnet5.com;user=phone", nonce="KAee/vjRI0weoG2xWJCHrol0Ld0CN3Dy", response="38eb248d5eda786da63105913bc632a4"

Call-ID: 9eb4be06d253b090@5.5.5.207

CSeq: 30871 ACK

User-Agent: Grandstream GXV3000 1.1.3.14

Max-Forwards: 70

Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[16] INVITE sip:3881050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK999286a743041245
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7
 To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Supported: replaces, timer, path
 Session-Expires: 1800;refresher=uac
 Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5,
 uri="sip:3881050@5.5.5.45:5060", nonce="KAee/vjRI0weoG2xWJChrol0Ld0CN3Dy",
 response="959885a7cddde73745116a8504f9d7dc"
 Call-ID: 9eb4be06d253b090@5.5.5.207
 CSeq: 30872 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Type: application/sdp
 Content-Length: 408

v=0
 o=3881050 8000 8002 IN IP4 5.5.5.207
 s=SIP Call
 c=IN IP4 0.0.0.0
 t=0 0
 m=audio 5004 RTP/AVP 0 8 4 18 3 101
 a=sendonly
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:4 G723/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:3 GSM/8000
 aptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-11
 m=video 5006 RTP/AVP 34
 a=sendonly
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120
 a=framerate:30

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[17] SIP/2.0 100 Trying

Date: Tue, 15 Jul 2008 17:37:48 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687
 Call-ID: 9eb4be06d253b090@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK999286a743041245
 CSeq: 30872 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[18] INVITE sip:3881080@5.5.5.101:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 17:37:48 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
 Allow-Events: presence
 Supported: timer, resource-priority, replaces
 Min-SE: 1800
 Remote-Party-ID: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 474
 User-Agent: Cisco-CUCM7.0
 To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dcc6
 Contact: <sip:3881050@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK17772ebac
 CSeq: 102 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 0.0.0.0
 t=0 0
 m=audio 5004 RTP/AVP 0 8 3 18 4 101
 a=rtpmap:0 PCMU/8000
 aptime:20

```

a=rtpmap:8 PCMA/8000
a=ptime:20
a=rtpmap:3 GSM/8000
a=ptime:20
a=rtpmap:4 G723/8000
a=ptime:20
a=rtpmap:18 G729/8000
a=ptime:20
a=fmtp:0
a=inactive
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
m=video 5006 RTP/AVP 34
b=TIAS:384000
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1;MAXBR=3840
a=inactive

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[19] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK177772ebac
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dcc6
Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
CSeq: 102 INVITE
User-Agent: Grandstream GXV3000 1.1.3.14
Contact: <sip:3881080@5.5.5.101:5060;user=phone>
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Content-Type: application/sdp
Supported: replaces, timer, 100rel, path
Content-Length: 410

```

```

v=0
o=3881080 8000 8001 IN IP4 5.5.5.101
s=SIP Call
c=IN IP4 5.5.5.101
t=0 0
m=audio 5004 RTP/AVP 0 8 4 18 3 101
a=recvonly
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:4 G723/8000
a=rtpmap:18 G729/8000
a=rtpmap:3 GSM/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-11
m=video 5006 RTP/AVP 34
a=recvonly
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1 MaxBR=5120
a=framerate:30

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[20] ACK sip:3881080@5.5.5.101:5060;user=phone SIP/2.0

```

Date: Tue, 15 Jul 2008 17:37:48 GMT
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
Allow-Events: presence
Content-Length: 0
To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dcc6
Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK184bc99260
CSeq: 102 ACK
Max-Forwards: 70

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[21] INVITE sip:3881080@5.5.5.101:5060;user=phone SIP/2.0

```

Date: Tue, 15 Jul 2008 17:37:48 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 318
User-Agent: Cisco-CUCM7.0
To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dcc6
Contact: <sip:3881050@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp

```


Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1935f421dc
 CSeq: 103 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 0.0.0.0
 t=0 0
 m=audio 5004 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=inactive
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 m=video 5006 RTP/AVP 34
 b=TIAS:384000
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1;MAXBR=3840
 a=inactive

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[22] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1935f421dc
 From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
 To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dcc6
 Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
 CSeq: 103 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Contact: <sip:3881080@5.5.5.101:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Type: application/sdp
 Supported: replaces, timer, 100rel, path
 Content-Length: 313

v=0
 o=3881080 8000 8002 IN IP4 5.5.5.101
 s=SIP Call
 c=IN IP4 5.5.5.101
 t=0 0
 m=audio 5004 RTP/AVP 0 101
 a=reconly
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-11
 m=video 5006 RTP/AVP 34
 a=reconly
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120
 a=framerate:30

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[23] ACK sip:3881080@5.5.5.101:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 17:37:48 GMT
 From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dcc6
 Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1a49fe18eb
 CSeq: 103 ACK
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[24] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 17:37:48 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "GXV3000 - 3881080" <sip:3881080@5.5.5.45>;party=called;screen=no;privacy=off
 Content-Length: 320
 Require: timer
 To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687
 Contact: <sip:3881050@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 9eb4be06d253b090@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK999286a743041245

CSeq: 30872 INVITE
Session-Expires: 1800;refresher=uac

v=0
o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.101
t=0 0
m=audio 5004 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=recvonly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
m=video 5006 RTP/AVP 34
b=TIAS:384000
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1;MAXBR=3840
a=recvonly

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[25] ACK sip:3881050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK56c4f656a9540e10
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7
To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5,
uri="sip:3881050@5.5.5.45:5060", nonce="KAee/vjRI0weoG2xWJChrol0Ld0CN3Dy",
response="959885a7cddde73745116a8504f9d7dc"
Call-ID: 9eb4be06d253b090@5.5.5.207
CSeq: 30872 ACK
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[26] INVITE sip:3881050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKaca15974e3204f11
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7
To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Supported: replaces, timer, path
Session-Expires: 1800;refresher=uac
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5,
uri="sip:3881050@5.5.5.45:5060", nonce="KAee/vjRI0weoG2xWJChrol0Ld0CN3Dy",
response="959885a7cddde73745116a8504f9d7dc"
Call-ID: 9eb4be06d253b090@5.5.5.207
CSeq: 30873 INVITE
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Content-Type: application/sdp
Content-Length: 410

v=0
o=3881050 8000 8003 IN IP4 5.5.5.207
s=SIP Call
c=IN IP4 5.5.5.207
t=0 0
m=audio 5004 RTP/AVP 0 8 4 18 3 101
a=sendrecv
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:4 G723/8000
a=rtpmap:18 G729/8000
a=rtpmap:3 GSM/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-11
m=video 5006 RTP/AVP 34
a=sendrecv
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1 MaxBR=5120
a=framerate:30

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[27] SIP/2.0 100 Trying

Date: Tue, 15 Jul 2008 17:37:52 GMT
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

Allow-Events: presence
 Content-Length: 0
 To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687
 Call-ID: 9eb4be06d253b090@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKaca15974e3204f11
 CSeq: 30873 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[28] INVITE sip:3881080@5.5.5.101:5060;user=phone SIP/2.0
 Date: Tue, 15 Jul 2008 17:37:52 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 452
 User-Agent: Cisco-CUCM7.0
 To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dccc6
 Contact: <sip:3881050@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1b74b34ff
 CSeq: 104 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 8 3 18 4 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:8 PCMA/8000
 a=ptime:20
 a=rtpmap:3 GSM/8000
 a=ptime:20
 a=rtpmap:4 G723/8000
 a=ptime:20
 a=rtpmap:18 G729/8000
 a=ptime:20
 a=fmtp:0
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15
 m=video 5006 RTP/AVP 34
 b=TIAS:384000
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1;MAXBR=3840

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[29] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1b74b34ff
 From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
 To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dccc6
 Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
 CSeq: 104 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Contact: <sip:3881080@5.5.5.101:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Type: application/sdp
 Supported: replaces, timer, 100rel, path
 Content-Length: 313

v=0
 o=3881080 8000 8003 IN IP4 5.5.5.101
 s=SIP Call
 c=IN IP4 5.5.5.101
 t=0 0
 m=audio 5004 RTP/AVP 0 101
 a=sendrecv
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-11
 m=video 5006 RTP/AVP 34
 a=sendrecv
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120

a=framerate:30

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[30] ACK sip:3881080@5.5.5.101:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 17:37:52 GMT

From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688

Allow-Events: presence

Content-Length: 0

To: <sip:3881080@5.5.5.101>;tag=39306c3031c5dcc6

Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1c38186a83

CSeq: 104 ACK

Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[31] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 17:37:52 GMT

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

Allow-Events: presence

Supported: replaces

Remote-Party-ID: "GXV3000 - 3881080" <sip:3881080@5.5.5.45>;party=called;screen=no;privacy=off

Content-Length: 296

Require: timer

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687

Contact: <sip:3881050@5.5.5.45:5060>

Content-Type: application/sdp

Call-ID: 9eb4be06d253b090@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKaca15974e3204f11

CSeq: 30873 INVITE

Session-Expires: 1800;refresher=uac

v=0

o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45

s=SIP Call

c=IN IP4 5.5.5.101

t=0 0

m=audio 5004 RTP/AVP 0 101

a=rtpmap:0 PCMU/8000

a=ptime:20

a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-15

m=video 5006 RTP/AVP 34

b=TIAS:384000

a=rtpmap:34 H263/90000

a=fmtp:34 CIF=1;MAXBR=3840

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[32] ACK sip:3881050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK32a731b61d54fd72

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

To: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5,

uri="sip:3881050@5.5.5.45:5060", nonce="KAee/vjRI0weoG2xWJChrol0ld0CN3Dy",

response="959885a7cddde73745116a8504f9d7dc"

Call-ID: 9eb4be06d253b090@5.5.5.207

CSeq: 30873 ACK

User-Agent: Grandstream GXV3000 1.1.3.14

Max-Forwards: 70

Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[33] BYE sip:3881050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.101:5060;branch=z9hG4bK04204f078e8705c3

From: <sip:3881080@5.5.5.101>;tag=39306c3031c5dcc6

To: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688

Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45

CSeq: 5812 BYE

User-Agent: Grandstream GXV3000 1.1.3.14

Max-Forwards: 70

Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[34] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 17:38:01 GMT

From: <sip:3881080@5.5.5.101>;tag=39306c3031c5dcc6

Content-Length: 0

To: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704688
 Call-ID: b4008880-87c1e05e-151-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.101:5060;branch=z9hG4bK04204f078e8705c3
 CSeq: 5812 BYE

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[35] BYE sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 17:37:52 GMT

From: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

Call-ID: 9eb4be06d253b090@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1d66e65a5f

CSeq: 101 BYE

Max-Forwards: 70

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[36] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1d66e65a5f

From: <sip:3881080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704687

To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=5436864149b785f7

Call-ID: 9eb4be06d253b090@5.5.5.207

CSeq: 101 BYE

User-Agent: Grandstream GXV3000 1.1.3.14

Session-Expires: 1800;refresher=uac

Min-SE: 1800

Require: timer

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK

Supported: replaces, timer, 100rel, path

Content-Length: 0

10.5 Hold Resume - SIP Video Phone hold/resume Cisco 7985 video phone

Title: Hold Resume - SIP Video Phone hold/resume Cisco 7985 video phone

Description:

A SIP Video Phone calls a Cisco 7985 video phone and performs a hold and resume.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = Q, Line = 3881050, IP = 5.5.5.207, Model = SIP Video Phone

Phone = S, Line = 3033080, IP = 5.5.5.224, Model = Cisco 7985

Scenario:

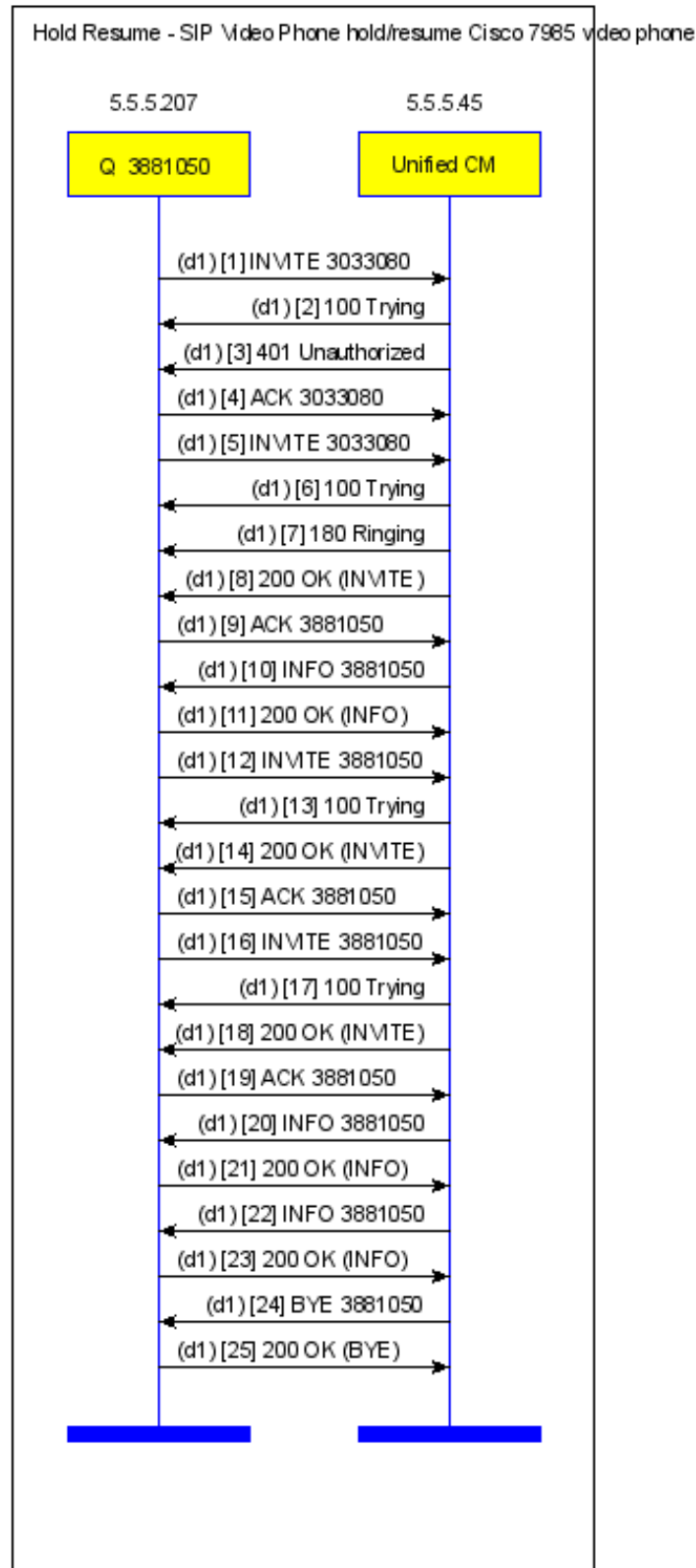
3881050 calls 3033080

3033080 answers

3881050 presses hold

3881050 presses resume

3033080 goes onhook



[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3033080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK098234a7702394a6
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Supported: replaces, timer, path
 Call-ID: a80510114fb62ff5@5.5.5.207
 CSeq: 29657 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
 Content-Type: application/sdp
 Content-Length: 410

v=0
 o=3881050 8000 8000 IN IP4 5.5.5.207
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 8 4 18 3 101
 a=sendrecv
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:4 G723/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:3 GSM/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-11
 m=video 5006 RTP/AVP 34
 a=sendrecv
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120
 a=framerate:30

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Date: Tue, 15 Jul 2008 17:42:33 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
 Call-ID: a80510114fb62ff5@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK098234a7702394a6
 CSeq: 29657 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 401 Unauthorized

Date: Tue, 15 Jul 2008 17:42:33 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
 Allow-Events: presence
 WWW-Authenticate: Digest realm="ccmsipline", nonce="Mhx4Xc39AyXj4Vpt4HumAji38QDIbgiI", stale=true, algorithm=MD5
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=1786469211
 Call-ID: a80510114fb62ff5@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK098234a7702394a6
 CSeq: 29657 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] ACK sip:3033080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK098234a7702394a6
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=1786469211
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Call-ID: a80510114fb62ff5@5.5.5.207
 CSeq: 29657 ACK
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] INVITE sip:3033080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKa4f1cae476c59407
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Supported: replaces, timer, path

Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3033080@titan-pub.sipnet5.com;user=phone", nonce="Mhx4Xc39AyXj4Vpt4HumAji38QDibgiI", response="187c80930cb3dbcc389f7611e713af92"
 Call-ID: a80510114fb62ff5@5.5.5.207
 CSeq: 29658 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Type: application/sdp
 Content-Length: 410

v=0
 o=3881050 8000 8001 IN IP4 5.5.5.207
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 8 4 18 3 101
 a=sendrecv
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:4 G723/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:3 GSM/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-11
 m=video 5006 RTP/AVP 34
 a=sendrecv
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120
 a=framerate:30

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 100 Trying

Date: Tue, 15 Jul 2008 17:42:33 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
 Call-ID: a80510114fb62ff5@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKa4f1cae476c59407
 CSeq: 29658 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 180 Ringing

Date: Tue, 15 Jul 2008 17:42:33 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
 Allow-Events: presence
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
 Contact: <sip:3881050@5.5.5.45:5060>
 Call-ID: a80510114fb62ff5@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKa4f1cae476c59407
 CSeq: 29658 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 17:42:33 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 242
 Require: timer
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
 Contact: <sip:3881050@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: a80510114fb62ff5@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKa4f1cae476c59407
 CSeq: 29658 INVITE
 Session-Expires: 1800;refresher=uas

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.224
 t=0 0

```

m=audio 20004 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
m=video 20006 RTP/AVP 34
b=TIAS:384000
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1;MAXBR=3200

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] ACK sip:3881050@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK9fd6e6378d213033
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3033080@titan-pub.sipnet5.com;user=phone", nonce="Mhx4Xc39AyXj4Vpt4HumAji38QDIbgiI", response="187c80930cb3dbcc389f7611e713af92"
Call-ID: a80510114fb62ff5@5.5.5.207
CSeq: 29658 ACK
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] INFO sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

```

Date: Tue, 15 Jul 2008 17:42:35 GMT
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
Content-Length: 190
User-Agent: Cisco-CUCM7.0
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
Contact: <sip:3033080@5.5.5.45:5060>
Content-Type: application/media_control+xml
Call-ID: a80510114fb62ff5@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e60c5c366
CSeq: 101 INFO
Max-Forwards: 70

```

```

<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<media_control>

```

```

  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>

```

```

</media_control>

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1e60c5c366
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
Call-ID: a80510114fb62ff5@5.5.5.207
CSeq: 101 INFO
User-Agent: Grandstream GXV3000 1.1.3.14
Session-Expires: 1800;refresher=uac
Min-SE: 1800
Require: timer
Supported: replaces, timer, 100rel, path
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] INVITE sip:3881050@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK2d933d152393eef3
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Supported: replaces, timer, path
Session-Expires: 1800;refresher=uac
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3881050@5.5.5.45:5060", nonce="Mhx4Xc39AyXj4Vpt4HumAji38QDIbgiI", response="2d9c93eca883fd326e30509009cd14bb"
Call-ID: a80510114fb62ff5@5.5.5.207
CSeq: 29659 INVITE
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
Content-Type: application/sdp

```

Content-Length: 531

```
v=0
o=3881050 8000 8002 IN IP4 5.5.5.207
s=SIP Call
c=IN IP4 0.0.0.0
t=0 0
m=audio 5004 RTP/AVP 0 8 4 18 3 128
a=sendonly
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:4 G723/8000
a=rtpmap:18 G729/8000
a=rtpmap:3 GSM/8000
aptime:20
a=rtpmap:128 telephone-event/90000
a=fmtp:128 mode=20
a=fmtp:128 profile-level-id=428014; packetization-mode=0; sprop-parameter-sets=Z0KADJWgUH5A,aM4G8g==
a=fmtp:128 0-11
m=video 5006 RTP/AVP 34
a=sendonly
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1 MaxBR=5120
a=framerate:30
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 100 Trying

```
Date: Tue, 15 Jul 2008 17:42:40 GMT
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
Allow-Events: presence
Content-Length: 0
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
Call-ID: a80510114fb62ff5@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK2d933d152393eef3
CSeq: 29659 INVITE
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] SIP/2.0 200 OK

```
Date: Tue, 15 Jul 2008 17:42:40 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 266
Require: timer
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
Contact: <sip:3881050@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: a80510114fb62ff5@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK2d933d152393eef3
CSeq: 29659 INVITE
Session-Expires: 1800;refresher=uac
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.224
t=0 0
m=audio 20004 RTP/AVP 0
a=rtpmap:0 PCMU/8000
aptime:20
a=inactive
m=video 20006 RTP/AVP 34
b=TIAS:384000
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1;MAXBR=3200
a=inactive
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] ACK sip:3881050@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK5bb05d2354f44bf4
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5,
uri="sip:3881050@5.5.5.45:5060", nonce="Mhx4Xc39AyXj4Vpt4HumAji38QDIbgiI",
response="2d9c93eca883fd326e30509009cd14bb"
Call-ID: a80510114fb62ff5@5.5.5.207
CSeq: 29659 ACK
```

User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Length: 0

[diagram] Call-ID: [prev][next]

[16] INVITE sip:3881050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK33c14c956f325656
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Supported: replaces, timer, path
 Session-Expires: 1800;refresher=uac
 Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5,
 uri="sip:3881050@5.5.5.45:5060", nonce="Mhx4Xc39AyXj4Vpt4HumAji38QDIbgiI",
 response="2d9c93eca883fd326e30509009cd14bb"
 Call-ID: a80510114fb62ff5@5.5.5.207
 CSeq: 29660 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Type: application/sdp
 Content-Length: 533

v=0
 o=3881050 8000 8003 IN IP4 5.5.5.207
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 8 4 18 3 128
 a=sendrecv
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:4 G723/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:3 GSM/8000
 aptime:20
 a=rtpmap:128 telephone-event/90000
 a=fmtp:128 mode=20
 a=fmtp:128 profile-level-id=428014; packetization-mode=0; sprop-parameter-sets=Z0KADJWgUH5A,aM4G8g==
 a=fmtp:128 0-11
 m=video 5006 RTP/AVP 34
 a=sendrecv
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120
 a=framerate:30

[diagram] Call-ID: [prev][next]

[17] SIP/2.0 100 Trying

Date: Tue, 15 Jul 2008 17:42:45 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
 Call-ID: a80510114fb62ff5@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK33c14c956f325656
 CSeq: 29660 INVITE

[diagram] Call-ID: [prev][next]

[18] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 17:42:45 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 242
 Require: timer
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
 Contact: <sip:3881050@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: a80510114fb62ff5@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK33c14c956f325656
 CSeq: 29660 INVITE
 Session-Expires: 1800;refresher=uac

v=0
 o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.224

```
t=0 0
m=audio 20008 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
m=video 20010 RTP/AVP 34
b=TIAS:384000
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1;MAXBR=3200
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[19] ACK sip:3881050@5.5.5.45:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK3af70012c2a6f9f4
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5,
uri="sip:3881050@5.5.5.45:5060", nonce="Mhx4Xc39AyXj4Vpt4HumAji38QDIbgiI",
response="2d9c93eca883fd326e30509009cd14bb"
Call-ID: a80510114fb62ff5@5.5.5.207
CSeq: 29660 ACK
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[20] INFO sip:3881050@5.5.5.207:5060;user=phone SIP/2.0
Date: Tue, 15 Jul 2008 17:42:45 GMT
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
Content-Length: 190
User-Agent: Cisco-CUCM7.0
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
Contact: <sip:3033080@5.5.5.45:5060>
Content-Type: application/media_control+xml
Call-ID: a80510114fb62ff5@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f29705828
CSeq: 102 INFO
Max-Forwards: 70
```

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<media_control>

  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>

</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[21] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK1f29705828
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
Call-ID: a80510114fb62ff5@5.5.5.207
CSeq: 102 INFO
User-Agent: Grandstream GXV3000 1.1.3.14
Session-Expires: 1800;refresher=uac
Min-SE: 1800
Require: timer
Supported: replaces, timer, 100rel, path
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

```
[22] INFO sip:3881050@5.5.5.207:5060;user=phone SIP/2.0
Date: Tue, 15 Jul 2008 17:42:45 GMT
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689
Content-Length: 190
User-Agent: Cisco-CUCM7.0
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2
Contact: <sip:3033080@5.5.5.45:5060>
Content-Type: application/media_control+xml
Call-ID: a80510114fb62ff5@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK202fb72312
CSeq: 103 INFO
Max-Forwards: 70
```

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<media_control>
```

```
<vc_primitive>
  <to_encoder>
    <picture_fast_update/>
  </to_encoder>
</vc_primitive>
```

```
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[23] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK202fb72312

From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689

To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2

Call-ID: a80510114fb62ff5@5.5.5.207

CSeq: 103 INFO

User-Agent: Grandstream GXV3000 1.1.3.14

Session-Expires: 1800;refresher=uac

Min-SE: 1800

Require: timer

Supported: replaces, timer, 100rel, path

Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[24] BYE sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 17:42:45 GMT

From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2

Call-ID: a80510114fb62ff5@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK21349167de

CSeq: 104 BYE

Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[25] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK21349167de

From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704689

To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=04603893766574d2

Call-ID: a80510114fb62ff5@5.5.5.207

CSeq: 104 BYE

User-Agent: Grandstream GXV3000 1.1.3.14

Session-Expires: 1800;refresher=uac

Min-SE: 1800

Require: timer

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK

Supported: replaces, timer, 100rel, path

Content-Length: 0

10.6 Hold Resume - 7985 video phone hold/resume of a SIP Video Phone

Title: Hold Resume - 7985 video phone hold/resume of a SIP Video Phone

Description:

A 7985 calls a SIP Video Phone video phone. 7985 video phone performs a hold and resume.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = P, Line = 3501000, IP = 5.5.5.111, Model = SIP Video Phone

Phone = S, Line = 3033080, IP = 5.5.5.224, Model = Cisco 7985

Scenario:

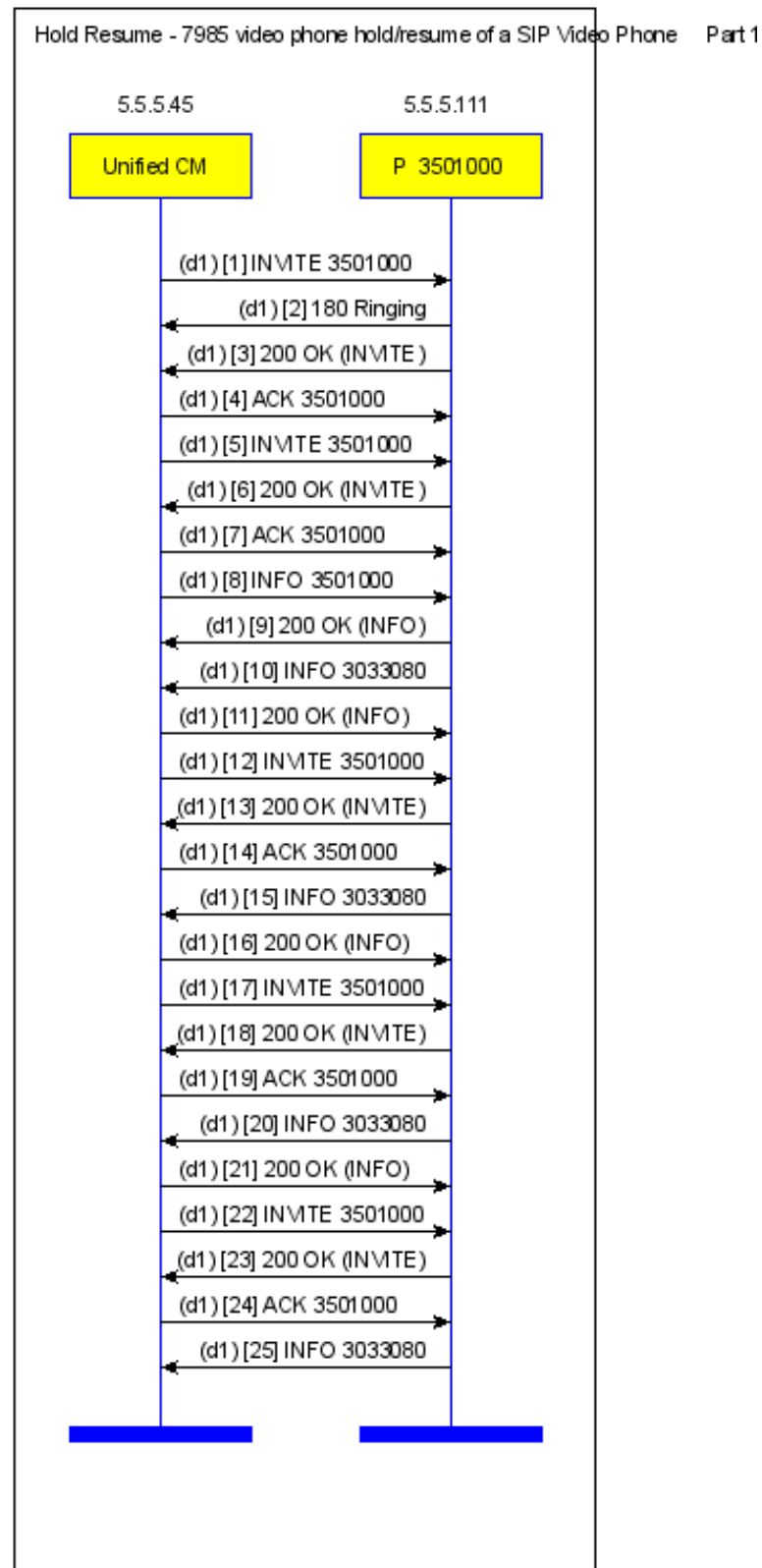
3033080 calls 3501000

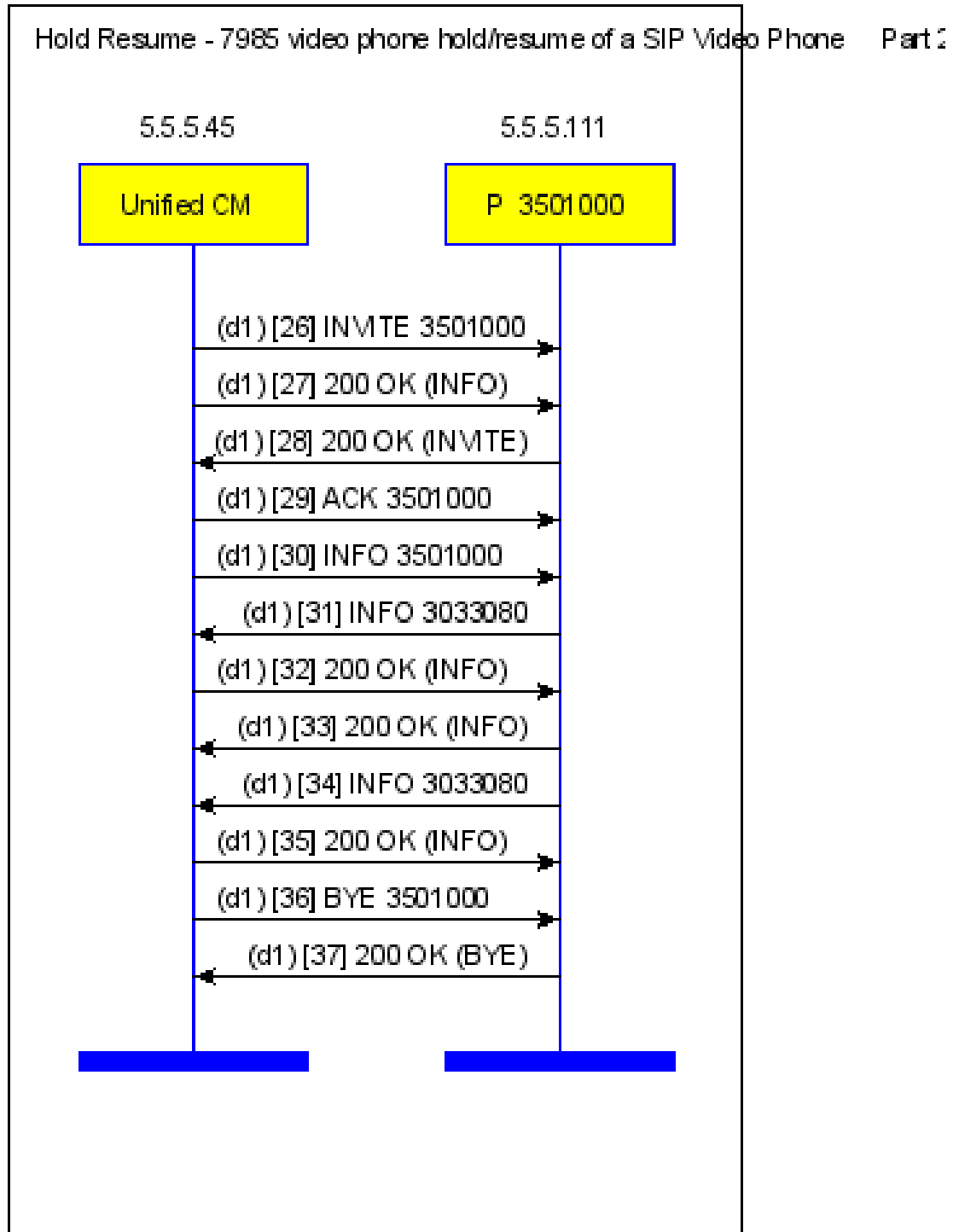
3501000 answers

3033080 presses hold

3033080 presses resume

3033080 goes onhook





[diagram] Call-ID: [prev] [next]

[1] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 18:50:41 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45;x-cisco-callback-number=3033080>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>
 Contact: <sip:3033080@5.5.5.45:5060>;video;audio
 Expires: 180
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK7c562b82c2
 CSeq: 101 INVITE
 Max-Forwards: 70
 Alert-Info: <file://Bellcore-dr1/>

[diagram] Call-ID: [prev] [next]

[2] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK7c562b82c2
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 101 INVITE
 User-Agent: SIPVidEndpoint
 Content-Length: 0

[diagram] Call-ID: [prev] [next]

[3] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK7c562b82c2
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 618

v=0
 o=- 88816949 88818478 IN IP4 5.5.5.111
 s=eyeBeam SDK
 c=IN IP4 5.5.5.111
 t=0 0
 m=audio 16386 RTP/AVP 0 8 18 98 102 101
 b=TIAS:64000
 a=alt:1 1 : C9BD1998 BE82BED0 5.5.5.111 16386
 a=fmtp:101 0-15
 a=maxprate:50.0
 a=rtpmap:98 ilbc/8000
 a=rtpmap:102 l16/16000
 a=rtpmap:101 telephone-event/8000
 a=sendrecv
 m=video 16388 RTP/AVP 97 103 34
 b=TIAS:512000
 a=alt:1 1 : 96A8ECE3 05E6734C 5.5.5.111 16388
 a=fmtp:97 profile-level-id=42e014
 a=fmtp:103 CIF=1 QCIF=1 MAXBR=5120
 a=fmtp:34 CIF=1 QCIF=1 MAXBR=5120
 a=framerate:30
 a=maxprate:100.0
 a=rtpmap:97 h264/90000
 a=rtpmap:103 h263-1998/90000
 a=sendrecv

[diagram] Call-ID: [prev] [next]

[4] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 18:50:41 GMT
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Allow-Events: presence
 Content-Length: 249
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 Content-Type: application/sdp

Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK7d459a65ce
 CSeq: 101 ACK
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.224
 t=0 0
 m=audio 20056 RTP/AVP 0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 m=video 20058 RTP/AVP 97
 b=TIAS:384000
 a=rtpmap:97 H264/90000
 a=fmtp:97 profile-level-id=420014

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[5] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 18:50:43 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 249
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 Contact: <sip:3033080@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK7e429b3cb9
 CSeq: 102 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.224
 t=0 0
 m=audio 20056 RTP/AVP 0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 m=video 20058 RTP/AVP 97
 b=TIAS:384000
 a=rtpmap:97 H264/90000
 a=fmtp:97 profile-level-id=420014

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[6] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK7e429b3cb9
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 102 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 395

v=0
 o=- 88816949 88818645 IN IP4 5.5.5.111
 s=eyeBeam SDK
 c=IN IP4 5.5.5.111
 t=0 0
 m=audio 16386 RTP/AVP 0
 b=TIAS:64000
 a=alt:1 1 : C9BD1998 BE82BED0 5.5.5.111 16386
 a=maxprate:50.0
 a=sendrecv
 m=video 16388 RTP/AVP 97
 b=TIAS:384000
 a=alt:1 1 : 96A8ECE3 05E6734C 5.5.5.111 16388
 a=fmtp:97 profile-level-id=42e014
 a=framerate:30

```
a=maxprate:100.0
a=rtpmap:97 h264/90000
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

```
Date: Tue, 15 Jul 2008 18:50:43 GMT
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
Allow-Events: presence
Content-Length: 0
To: <sip:3501000@5.5.5.111>;tag=fd432b70
Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK7f2fa18719
CSeq: 102 ACK
Max-Forwards: 70
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] INFO sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

```
Date: Tue, 15 Jul 2008 18:50:43 GMT
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
Content-Length: 190
User-Agent: Cisco-CUCM7.0
To: <sip:3501000@5.5.5.111>;tag=fd432b70
Contact: <sip:3033080@5.5.5.45:5060>
Content-Type: application/media_control+xml
Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8046e632ba
CSeq: 103 INFO
Max-Forwards: 70
```

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<media_control>
```

```
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
```

```
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[9] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8046e632ba
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: <sip:3501000@5.5.5.111>;tag=fd432b70
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
CSeq: 103 INFO
User-Agent: SIPVidEndpoint
Allow-Events: dialog, refer
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[10] INFO sip:3033080@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-25767817725a420a-1--d87543-;rport
Max-Forwards: 70
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
From: <sip:3501000@5.5.5.111>;tag=fd432b70
Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
CSeq: 2 INFO
Content-Type: application/media_control+xml
User-Agent: SIPVidEndpoint
Content-Length: 171
```

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[11] SIP/2.0 200 OK

```
Date: Tue, 15 Jul 2008 18:50:44 GMT
From: <sip:3501000@5.5.5.111>;tag=fd432b70
Content-Length: 0
```

To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-25767817725a420a-1--d87543-;rport
 CSeq: 2 INFO

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 18:50:48 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 291
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 Contact: <sip:3033080@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK81276414e5
 CSeq: 104 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 t=0 0
 m=audio 20056 RTP/AVP 0
 c=IN IP4 0.0.0.0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=inactive
 m=video 20058 RTP/AVP 97
 c=IN IP4 5.5.5.224
 b=TIAS:384000
 a=rtpmap:97 H264/90000
 a=fmtp:97 profile-level-id=420014
 a=inactive

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK81276414e5
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 104 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 395

v=0
 o=- 88816949 88824041 IN IP4 5.5.5.111
 s=eyeBeam SDK
 c=IN IP4 5.5.5.111
 t=0 0
 m=audio 16386 RTP/AVP 0
 b=TIAS:64000
 a=alt:1 1 : C9BD1998 BE82BED0 5.5.5.111 16386
 a=inactive
 a=maxprate:50.0
 m=video 16388 RTP/AVP 97
 b=TIAS:384000
 a=alt:1 1 : 96A8ECE3 05E6734C 5.5.5.111 16388
 a=fmtp:97 profile-level-id=42e014
 a=framerate:30
 a=inactive
 a=maxprate:100.0
 a=rtpmap:97 h264/90000

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 18:50:48 GMT
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Allow-Events: presence

Content-Length: 0
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8212f3b2eb
 CSeq: 104 ACK
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] INFO sip:3033080@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-2d13bb044c41bc51-1--d87543-;rport
 Max-Forwards: 70
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 From: <sip:3501000@5.5.5.111>;tag=fd432b70
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 3 INFO
 Content-Type: application/media_control+xml
 User-Agent: SIPVidEndpoint
 Content-Length: 171

```
<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[16] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 18:50:48 GMT
 From: <sip:3501000@5.5.5.111>;tag=fd432b70
 Content-Length: 0
 To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-2d13bb044c41bc51-1--d87543-;rport
 CSeq: 3 INFO

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[17] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 18:50:48 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 Contact: <sip:3033080@5.5.5.45:5060>
 Expires: 180
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8336a4fef3
 CSeq: 105 INVITE
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[18] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8336a4fef3
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 105 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 562

```
v=0
o=- 88816949 88824139 IN IP4 5.5.5.111
s=eyeBeam SDK
c=IN IP4 5.5.5.111
t=0 0
m=audio 16386 RTP/AVP 0 8 18 98 102
b=TIAS:64000
```

```

a=alt:1 1 : C9BD1998 BE82BED0 5.5.5.111 16386
a=maxprate:50.0
a=rtpmap:98 ilbc/8000
a=rtpmap:102 l16/16000
a=sendrecv
m=video 16388 RTP/AVP 97 103 34
b=TIAS:512000
a=alt:1 1 : 96A8ECE3 05E6734C 5.5.5.111 16388
a=fmtp:97 profile-level-id=42e014
a=fmtp:103 CIF=1 QCIF=1 MAXBR=5120
a=fmtp:34 CIF=1 QCIF=1 MAXBR=5120
a=framerate:30
a=maxprate:100.0
a=rtpmap:97 h264/90000
a=rtpmap:103 h263-1998/90000
a=sendrecv

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[19] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

```

Date: Tue, 15 Jul 2008 18:50:48 GMT
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
Allow-Events: presence
Content-Length: 181
To: <sip:3501000@5.5.5.111>;tag=fd432b70
Content-Type: application/sdp
Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK841ea84e8d
CSeq: 105 ACK
Max-Forwards: 70

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.45
t=0 0
m=audio 4000 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
a=sendonly
m=video 0 RTP/AVP 97

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[20] INFO sip:3033080@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-f1693b1f8f372046-1--d87543-;rport
Max-Forwards: 70
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
From: <sip:3501000@5.5.5.111>;tag=fd432b70
Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
CSeq: 4 INFO
Content-Type: application/media_control+xml
User-Agent: SIPVidEndpoint
Content-Length: 171

```

```

<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[21] SIP/2.0 200 OK

```

Date: Tue, 15 Jul 2008 18:50:48 GMT
From: <sip:3501000@5.5.5.111>;tag=fd432b70
Content-Length: 0
To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
Contact: <sip:3033080@5.5.5.45:5060>
Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-f1693b1f8f372046-1--d87543-;rport
CSeq: 4 INFO

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[22] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

```

Date: Tue, 15 Jul 2008 18:50:50 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
Allow-Events: presence

```

Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 180
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 Contact: <sip:3033080@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK851e4c8cb2
 CSeq: 106 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 0.0.0.0
 t=0 0
 m=audio 4000 RTP/AVP 0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=inactive
 m=video 0 RTP/AVP 97

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[23] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK851e4c8cb2
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 106 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 231

v=0
 o=- 88816949 88825937 IN IP4 5.5.5.111
 s=eyeBeam SDK
 c=IN IP4 5.5.5.111
 t=0 0
 m=audio 16386 RTP/AVP 0
 b=TIAS:64000
 a=alt:1 1 : C9BD1998 BE82BED0 5.5.5.111 16386
 a=inactive
 a=maxprate:50.0
 m=video 0 RTP/AVP 97 103 34

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[24] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 18:50:50 GMT
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK86337c7ecb
 CSeq: 106 ACK
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[25] INFO sip:3033080@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-a67a912cc975dc56-1--d87543-;rport
 Max-Forwards: 70
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 From: <sip:3501000@5.5.5.111>;tag=fd432b70
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 5 INFO
 Content-Type: application/media_control+xml
 User-Agent: SIPVidEndpoint
 Content-Length: 171

```
<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
```



```

    <picture_fast_update/>
  </to_encoder>
</vc_primitive>
</media_control>

```

[diagram] Call-ID: [\[prev\]](#)[\[next\]](#)
[26] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 18:50:50 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 Contact: <sip:3033080@5.5.5.45:5060>
 Expires: 180
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK877047d9ff
 CSeq: 107 INVITE
 Max-Forwards: 70

[diagram] Call-ID: [\[prev\]](#)[\[next\]](#)
[27] SIP/2.0 200 OK
 Date: Tue, 15 Jul 2008 18:50:50 GMT
 From: <sip:3501000@5.5.5.111>;tag=fd432b70
 Content-Length: 0
 To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-a67a912cc975dc56-1--d87543-;rport
 CSeq: 5 INFO

[diagram] Call-ID: [\[prev\]](#)[\[next\]](#)
[28] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK877047d9ff
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 107 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 562

```

v=0
o=- 88816949 88826035 IN IP4 5.5.5.111
s=eyeBeam SDK
c=IN IP4 5.5.5.111
t=0 0
m=audio 16386 RTP/AVP 0 8 18 98 102
b=TIAS:64000
a=alt:1 1 : C9BD1998 BE82BED0 5.5.5.111 16386
a=maxprate:50.0
a=rtpmap:98 ilbc/8000
a=rtpmap:102 l16/16000
a=sendrecv
m=video 16388 RTP/AVP 97 103 34
b=TIAS:512000
a=alt:1 1 : 96A8ECE3 05E6734C 5.5.5.111 16388
a=fmtp:97 profile-level-id=420014
a=fmtp:103 CIF=1 QCIF=1 MAXBR=5120
a=fmtp:34 CIF=1 QCIF=1 MAXBR=5120
a=framerate:30
a=maxprate:100.0
a=rtpmap:97 h264/90000
a=rtpmap:103 h263-1998/90000
a=sendrecv

```

[diagram] Call-ID: [\[prev\]](#)[\[next\]](#)
[29] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 18:50:50 GMT
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Allow-Events: presence
 Content-Length: 249
 To: <sip:3501000@5.5.5.111>;tag=fd432b70

Content-Type: application/sdp
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK885a69e5fa
 CSeq: 107 ACK
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 5 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.224
 t=0 0
 m=audio 20060 RTP/AVP 0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 m=video 20062 RTP/AVP 97
 b=TIAS:384000
 a=rtpmap:97 H264/90000
 a=fmtp:97 profile-level-id=420014

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[30] INFO sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 18:50:50 GMT
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 190
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 Contact: <sip:3033080@5.5.5.45:5060>
 Content-Type: application/media_control+xml
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8947f90cc3
 CSeq: 108 INFO
 Max-Forwards: 70

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<media_control>

  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>

</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[31] INFO sip:3033080@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-3424ed21866a0726-1--d87543-;rport
 Max-Forwards: 70
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 From: <sip:3501000@5.5.5.111>;tag=fd432b70
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 6 INFO
 Content-Type: application/media_control+xml
 User-Agent: SIPVidEndpoint
 Content-Length: 171

```
<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[32] SIP/2.0 200 OK
 Date: Tue, 15 Jul 2008 18:50:50 GMT
 From: <sip:3501000@5.5.5.111>;tag=fd432b70
 Content-Length: 0
 To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-3424ed21866a0726-1--d87543-;rport
 CSeq: 6 INFO

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[33] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8947f90cc3
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 108 INFO
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[34] INFO sip:3033080@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-f0774e2de827fd48-1--d87543-;rport
 Max-Forwards: 70
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 From: <sip:3501000@5.5.5.111>;tag=fd432b70
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 7 INFO
 Content-Type: application/media_control+xml
 User-Agent: SIPVidEndpoint
 Content-Length: 171

```
<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[35] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 18:50:51 GMT
 From: <sip:3501000@5.5.5.111>;tag=fd432b70
 Content-Length: 0
 To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-f0774e2de827fd48-1--d87543-;rport
 CSeq: 7 INFO

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[36] BYE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 18:50:51 GMT
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a83aa5fc
 CSeq: 109 BYE
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[37] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK8a83aa5fc
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=fd432b70
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704717
 Call-ID: eadb9c00-87c1f181-23b-2d050505@5.5.5.45
 CSeq: 109 BYE
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 0

10.7 Basic Call - Escalation to video

Title: Basic Call - Escalation to video

Description:

A SIP Video phone calls a SIP Video Phone but the call is initially audio-only. The calling phone escalates the call to audio/video.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = P, Line = 3501000, IP = 5.5.5.111, Model = SIP Video Phone

Phone = Q, Line = 3881050, IP = 5.5.5.207, Model = SIP Video Phone

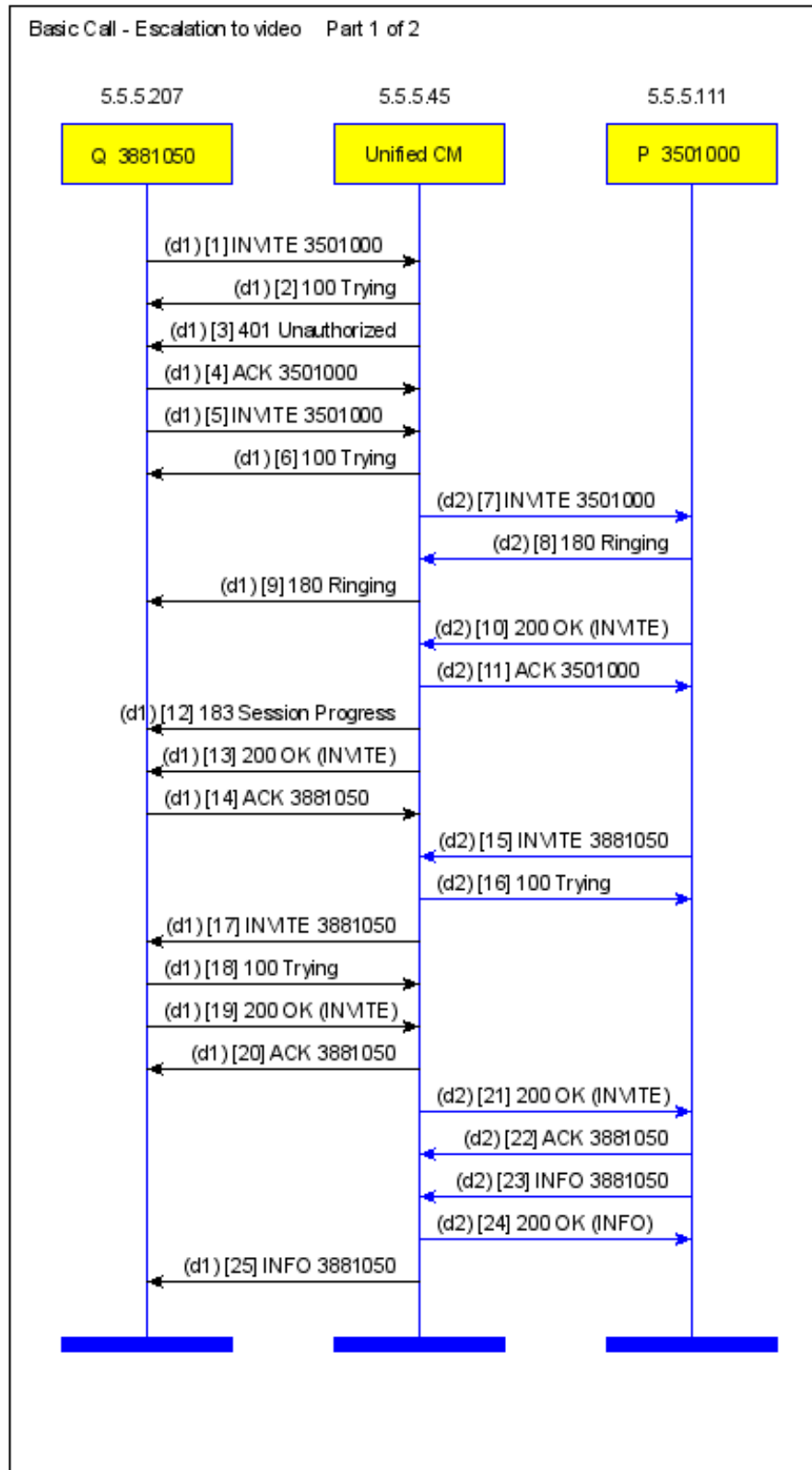
Scenario:

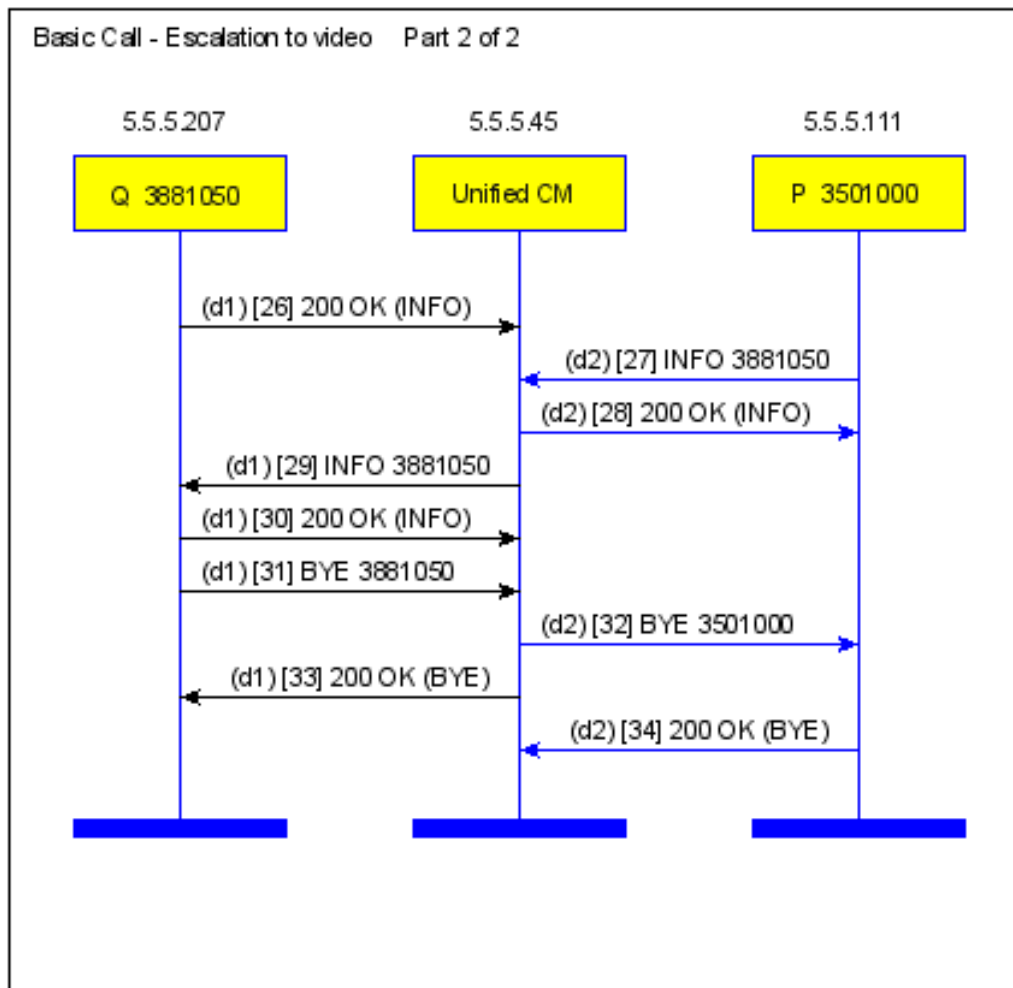
3881050 calls 3501000

3501000 answers

3501000 escalates call to audio/video

3881050 goes onhook





[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[1] INVITE sip:3501000@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK27465a553634eda7

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757

To: <sip:3501000@titan-pub.sipnet5.com;user=phone>

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Supported: replaces, timer, path

Call-ID: 3e53a3668ba33054@5.5.5.207

CSeq: 28283 INVITE

User-Agent: Grandstream GXV3000 1.1.3.14

Max-Forwards: 70

Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK

Content-Type: application/sdp

Content-Length: 410

v=0

o=3881050 8000 8000 IN IP4 5.5.5.207

s=SIP Call

c=IN IP4 5.5.5.207

t=0 0

m=audio 5004 RTP/AVP 0 8 4 18 3 101

a=sendrecv

a=rtpmap:0 PCMU/8000

a=rtpmap:8 PCMA/8000

a=rtpmap:4 G723/8000

a=rtpmap:18 G729/8000

a=rtpmap:3 GSM/8000

a=ptime:20

a=rtpmap:101 telephone-event/8000

a=fmtp:101 0-11

m=video 5006 RTP/AVP 34

a=sendrecv

a=rtpmap:34 H263/90000

a=fmtp:34 CIF=1 MaxBR=5120

a=framerate:30

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[2] SIP/2.0 100 Trying

Date: Tue, 15 Jul 2008 19:20:44 GMT

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757

Allow-Events: presence

Content-Length: 0

To: <sip:3501000@titan-pub.sipnet5.com;user=phone>

Call-ID: 3e53a3668ba33054@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK27465a553634eda7

CSeq: 28283 INVITE

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[3] SIP/2.0 401 Unauthorized

Date: Tue, 15 Jul 2008 19:20:44 GMT

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757

Allow-Events: presence

WWW-Authenticate: Digest realm="ccmsipline", nonce="CiUwcq50He/CewrbYNQBstEA0v8R2wVu", algorithm=MD5

Content-Length: 0

To: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=415334206

Call-ID: 3e53a3668ba33054@5.5.5.207

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK27465a553634eda7

CSeq: 28283 INVITE

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[4] ACK sip:3501000@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK27465a553634eda7

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757

To: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=415334206

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Call-ID: 3e53a3668ba33054@5.5.5.207

CSeq: 28283 ACK

User-Agent: Grandstream GXV3000 1.1.3.14

Max-Forwards: 70

Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK

Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[5] INVITE sip:3501000@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK27802077e5774182

From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757

To: <sip:3501000@titan-pub.sipnet5.com;user=phone>

Contact: <sip:3881050@5.5.5.207:5060;user=phone>

Supported: replaces, timer, path

Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3501000@titan-

```
pub.sipnet5.com;user=phone", nonce="CiUwcq50He/CewrbYNQBstEA0v8R2WVu",
response="55fe700ae9c459522a4243fd45da2de0"
Call-ID: 3e53a3668ba33054@5.5.5.207
CSeq: 28284 INVITE
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Content-Type: application/sdp
Content-Length: 410
```

```
v=0
o=3881050 8000 8001 IN IP4 5.5.5.207
s=SIP Call
c=IN IP4 5.5.5.207
t=0 0
m=audio 5004 RTP/AVP 0 8 4 18 3 101
a=sendrecv
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:4 G723/8000
a=rtpmap:18 G729/8000
a=rtpmap:3 GSM/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-11
m=video 5006 RTP/AVP 34
a=sendrecv
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1 MaxBR=5120
a=framerate:30
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[6] SIP/2.0 100 Trying

```
Date: Tue, 15 Jul 2008 19:20:44 GMT
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
Allow-Events: presence
Content-Length: 0
To: <sip:3501000@titan-pub.sipnet5.com;user=phone>
Call-ID: 3e53a3668ba33054@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK27802077e5774182
CSeq: 28284 INVITE
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[7] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

```
Date: Tue, 15 Jul 2008 19:20:44 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "GXV3000 - 3881050" <sip:3881050@5.5.5.45;x-cisco-callback-
number=3881050>;party=calling;screen=yes;privacy=off
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3501000@5.5.5.111>
Contact: <sip:3881050@5.5.5.45:5060>;video;audio
Expires: 180
Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKf915ef7c1e
CSeq: 101 INVITE
Max-Forwards: 69
Alert-Info: <file://Bellcore-dr1/>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[8] SIP/2.0 180 Ringing

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKf915ef7c1e
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: <sip:3501000@5.5.5.111>;tag=23304a2b
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
CSeq: 101 INVITE
User-Agent: SIPVidEndpoint
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] SIP/2.0 180 Ringing

```
Date: Tue, 15 Jul 2008 19:20:44 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
Allow-Events: presence
```


Remote-Party-ID: "3501000" <sip:3501000@5.5.5.45>;party=called;screen=no;privacy=off
 Content-Length: 0
 To: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
 Contact: <sip:3881050@5.5.5.45:5060>
 Call-ID: 3e53a3668ba33054@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK27802077e5774182
 CSeq: 28284 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKf915ef7c1e
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=23304a2b
 From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
 Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 317

v=0
 o=- 90619779 90623856 IN IP4 5.5.5.111
 s=eyeBeam SDK
 c=IN IP4 5.5.5.111
 t=0 0
 m=audio 16386 RTP/AVP 0 8 18 98 102 101
 b=TIAS:64000
 a=alt:1 1 : 622AFAEC 0B9B484E 5.5.5.111 16386
 a=fmtp:101 0-15
 a=maxprate:50.0
 a=rtpmap:98 ilbc/8000
 a=rtpmap:102 l16/16000
 a=rtpmap:101 telephone-event/8000
 a=sendrecv

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 19:20:44 GMT
 From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
 Allow-Events: presence
 Content-Length: 204
 To: <sip:3501000@5.5.5.111>;tag=23304a2b
 Content-Type: application/sdp
 Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKfa17523dd
 CSeq: 101 ACK
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 aptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] SIP/2.0 183 Session Progress

Date: Tue, 15 Jul 2008 19:20:44 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
 Allow-Events: presence
 Remote-Party-ID: "3501000" <sip:3501000@5.5.5.45>;party=called;screen=no;privacy=off
 Content-Length: 241
 To: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
 Contact: <sip:3881050@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 3e53a3668ba33054@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK27802077e5774182
 CSeq: 28284 INVITE

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.111

```
t=0 0
m=audio 16386 RTP/AVP 0 101
b=TIAS:64000
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
m=video 0 RTP/AVP 34
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 200 OK

```
Date: Tue, 15 Jul 2008 19:20:44 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dfff75757
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "3501000" <sip:3501000@5.5.5.45>;party=called;screen=no;privacy=off
Content-Length: 241
Require: timer
To: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
Contact: <sip:3881050@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 3e53a3668ba33054@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK27802077e5774182
CSeq: 28284 INVITE
Session-Expires: 1800;refresher=uas
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.111
t=0 0
m=audio 16386 RTP/AVP 0 101
b=TIAS:64000
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
m=video 0 RTP/AVP 34
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] ACK sip:3881050@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK759678408f1178a2
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dfff75757
To: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3501000@titan-pub.sipnet5.com;user=phone", nonce="CiUwcq50He/CewrbYNQBstEA0v8R2WVu",
response="55fe700ae9c459522a4243fd45da2de0"
Call-ID: 3e53a3668ba33054@5.5.5.207
CSeq: 28284 ACK
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] INVITE sip:3881050@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-f634c676ee60b812-1--d87543-;rport
Max-Forwards: 70
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: "GXV3000 - 3881050"<sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
From: <sip:3501000@5.5.5.111>;tag=23304a2b
Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
CSeq: 2 INVITE
Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
Content-Type: application/sdp
User-Agent: SIPVidEndpoint
Allow-Events: dialog, refer
Content-Length: 618
```

```
v=0
o=- 90619779 90627202 IN IP4 5.5.5.111
s=eyeBeam SDK
c=IN IP4 5.5.5.111
t=0 0
m=audio 16386 RTP/AVP 0 8 18 98 102 101
b=TIAS:64000
a=alt:1 1 : 622AFAEC 0B9B484E 5.5.5.111 16386
a=fmtp:101 0-15
```

```

a=maxprate:50.0
a=rtpmap:98 ilbc/8000
a=rtpmap:102 l16/16000
a=rtpmap:101 telephone-event/8000
a=sendrecv
m=video 16388 RTP/AVP 97 103 34
b=TIAS:512000
a=alt:1 1 : 07432AF3 B1997089 5.5.5.111 16388
a=fmtp:97 profile-level-id=42e014
a=fmtp:103 CIF=1 QCIF=1 MAXBR=5120
a=fmtp:34 CIF=1 QCIF=1 MAXBR=5120
a=framerate:30
a=maxprate:100.0
a=rtpmap:97 h264/90000
a=rtpmap:103 h263-1998/90000
a=sendrecv

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[16] SIP/2.0 100 Trying

```

Date: Tue, 15 Jul 2008 19:20:51 GMT
From: <sip:3501000@5.5.5.111>;tag=23304a2b
Allow-Events: presence
Content-Length: 0
To: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-f634c676ee60b812-1--d87543-;rport
CSeq: 2 INVITE

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[17] INVITE sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

```

Date: Tue, 15 Jul 2008 19:20:51 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Cisco-Guid: 495424384-2277636236-662-755303685
Remote-Party-ID: "3501000" <sip:3501000@5.5.5.45>;party=calling;screen=no;privacy=off
Content-Length: 608
User-Agent: Cisco-CUCM7.0
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
Contact: <sip:3501000@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 3e53a3668ba33054@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKfb6fb21a78
CSeq: 101 INVITE
Session-Expires: 1800;refresher=uac
Max-Forwards: 70

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.111
t=0 0
m=audio 16386 RTP/AVP 0 8 98 18 101
b=TIAS:64000
a=rtpmap:0 PCMU/8000
a=ptime:20
a=rtpmap:8 PCMA/8000
a=ptime:20
a=rtpmap:98 iLBC/8000
a=ptime:30
a=maxptime:30
a=fmtp:98 mode=30
a=rtpmap:18 G729/8000
a=ptime:20
a=fmtp:0
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
m=video 16388 RTP/AVP 97 103 34
b=TIAS:384000
a=rtpmap:97 H264/90000
a=fmtp:97 profile-level-id=42E014
a=rtpmap:103 H263-1998/90000
a=fmtp:103 QCIF=1;CIF=1;MAXBR=3840
a=rtpmap:34 H263/90000
a=fmtp:34 QCIF=1;CIF=1;MAXBR=3840

```

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[18] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKfb6fb21a78
 From: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
 To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
 Call-ID: 3e53a3668ba33054@5.5.5.207
 CSeq: 101 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Require: timer
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[19] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKfb6fb21a78
 From: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
 To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
 Call-ID: 3e53a3668ba33054@5.5.5.207
 CSeq: 101 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Session-Expires: 1800;refresher=uac
 Min-SE: 1800
 Require: timer
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Type: application/sdp
 Supported: replaces, timer, 100rel, path
 Content-Length: 313

v=0
 o=3881050 8000 8002 IN IP4 5.5.5.207
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 101
 a=sendrecv
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-11
 m=video 5006 RTP/AVP 34
 a=sendrecv
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120
 a=framerate:30

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[20] ACK sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 19:20:51 GMT
 From: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
 Call-ID: 3e53a3668ba33054@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKfc324d21e9
 CSeq: 101 ACK
 Max-Forwards: 70

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[21] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 19:20:51 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3501000@5.5.5.111>;tag=23304a2b
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 296
 To: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
 Contact: <sip:3881050@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-f634c676ee60b812-1--d87543-;rport
 CSeq: 2 INVITE

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000

```
a=ptime:20
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
m=video 5006 RTP/AVP 34
b=TIAS:384000
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1;MAXBR=3840
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[22] ACK sip:3881050@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-da0b5b468914e96e-1--d87543-;rport
Max-Forwards: 70
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: "GXV3000 - 3881050"<sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
From: <sip:3501000@5.5.5.111>;tag=23304a2b
Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
CSeq: 2 ACK
User-Agent: SIPVidEndpoint
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[23] INFO sip:3881050@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-15699220e612161e-1--d87543-;rport
Max-Forwards: 70
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: "GXV3000 - 3881050"<sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
From: <sip:3501000@5.5.5.111>;tag=23304a2b
Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
CSeq: 3 INFO
Content-Type: application/media_control+xml
User-Agent: SIPVidEndpoint
Content-Length: 171
```

```
<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[24] SIP/2.0 200 OK

```
Date: Tue, 15 Jul 2008 19:20:51 GMT
From: <sip:3501000@5.5.5.111>;tag=23304a2b
Content-Length: 0
To: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
Contact: <sip:3881050@5.5.5.45:5060>
Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-15699220e612161e-1--d87543-;rport
CSeq: 3 INFO
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[25] INFO sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

```
Date: Tue, 15 Jul 2008 19:20:51 GMT
From: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
Content-Length: 190
User-Agent: Cisco-CUCM7.0
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dfff75757
Contact: <sip:3501000@5.5.5.45:5060>
Content-Type: application/media_control+xml
Call-ID: 3e53a3668ba33054@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKfd2839b278
CSeq: 102 INFO
Max-Forwards: 70
```

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<media_control>

  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>

</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[26] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKfd2839b278
 From: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
 To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
 Call-ID: 3e53a3668ba33054@5.5.5.207
 CSeq: 102 INFO
 User-Agent: Grandstream GXV3000 1.1.3.14
 Session-Expires: 1800;refresher=uac
 Min-SE: 1800
 Require: timer
 Supported: replaces, timer, 100rel, path
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[27] INFO sip:3881050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-33254839ba44bc44-1--d87543-;rport
 Max-Forwards: 70
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5cccd472c4f>
 To: "GXV3000 - 3881050"<sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
 From: <sip:3501000@5.5.5.111>;tag=23304a2b
 Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
 CSeq: 4 INFO
 Content-Type: application/media_control+xml
 User-Agent: SIPVidEndpoint
 Content-Length: 171

```
<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[28] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 19:20:52 GMT
 From: <sip:3501000@5.5.5.111>;tag=23304a2b
 Content-Length: 0
 To: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
 Contact: <sip:3881050@5.5.5.45:5060>
 Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-33254839ba44bc44-1--d87543-;rport
 CSeq: 4 INFO

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[29] INFO sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 19:20:51 GMT
 From: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
 Content-Length: 190
 User-Agent: Cisco-CUCM7.0
 To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
 Contact: <sip:3501000@5.5.5.45:5060>
 Content-Type: application/media_control+xml
 Call-ID: 3e53a3668ba33054@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKfeae67a7f
 CSeq: 103 INFO
 Max-Forwards: 70

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<media_control>

  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>

</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[30] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKfeae67a7f
 From: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
 To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
 Call-ID: 3e53a3668ba33054@5.5.5.207
 CSeq: 103 INFO
 User-Agent: Grandstream GXV3000 1.1.3.14
 Session-Expires: 1800;refresher=uac
 Min-SE: 1800

Require: timer
Supported: replaces, timer, 100rel, path
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[31] BYE sip:3881050@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK7ca08873a9677b02
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
To: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5,
uri="sip:3881050@5.5.5.45:5060", nonce="CiUwcq50He/CewrbYNQBstEA0v8R2WVu",
response="8493efff1e66662a587963bd992c1259a"
Call-ID: 3e53a3668ba33054@5.5.5.207
CSeq: 28285 BYE
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[32] BYE sip:3501000@5.5.5.111:5000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 19:20:52 GMT
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3501000@5.5.5.111>;tag=23304a2b
Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKff49a205c5
CSeq: 102 BYE
Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[33] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 19:20:59 GMT
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=78f01fc6dff75757
Content-Length: 0
To: <sip:3501000@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704747
Call-ID: 3e53a3668ba33054@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK7ca08873a9677b02
CSeq: 28285 BYE

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[34] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKff49a205c5
Contact: <sip:3501000@5.5.5.111:5000;rinstance=d4742a5ccd472c4f>
To: <sip:3501000@5.5.5.111>;tag=23304a2b
From: "GXV3000 - 3881050" <sip:3881050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704748
Call-ID: 1d879380-87c1f88c-297-2d050505@5.5.5.45
CSeq: 102 BYE
User-Agent: SIPVidEndpoint
Allow-Events: dialog, refer
Content-Length: 0

10.8 Transfer - SIP Video endpoint performs a blind transfer

Title: Transfer - SIP Video endpoint performs a blind transfer

Description:

A SIP Video phone calls a Cisco 7985 video phone and performs a blind transfer to another SIP Video phone. In this scenario, the SIP Video Phone is the Transferor.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = Q, Line = 3881050, IP = 5.5.5.207, Model = SIP Video Phone

Phone = R, Line = 3881080, IP = 5.5.5.101, Model = SIP Video Phone

Phone = S, Line = 3033080, IP = 5.5.5.224, Model = Cisco 7985

Scenario:

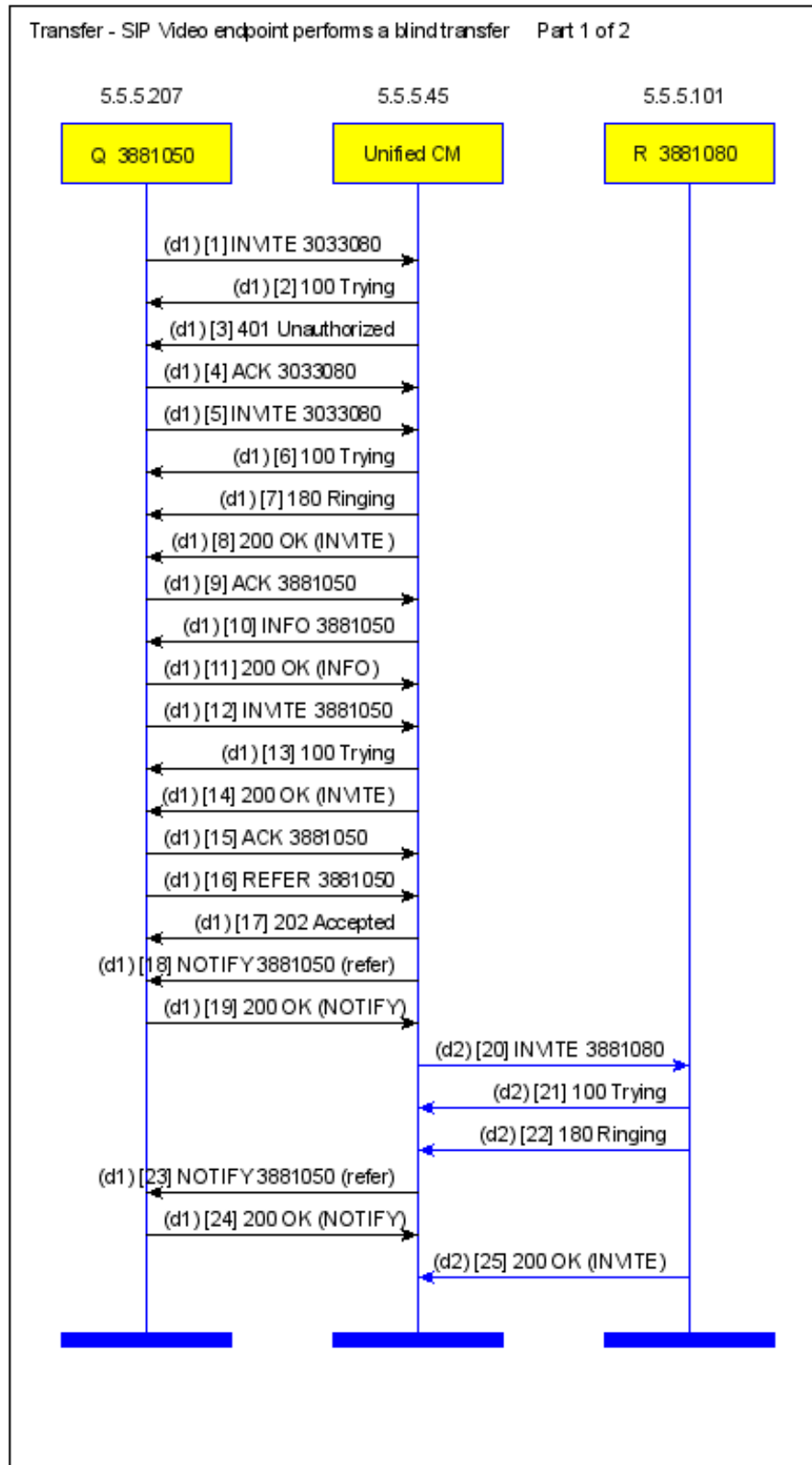
3881050 calls 3033080

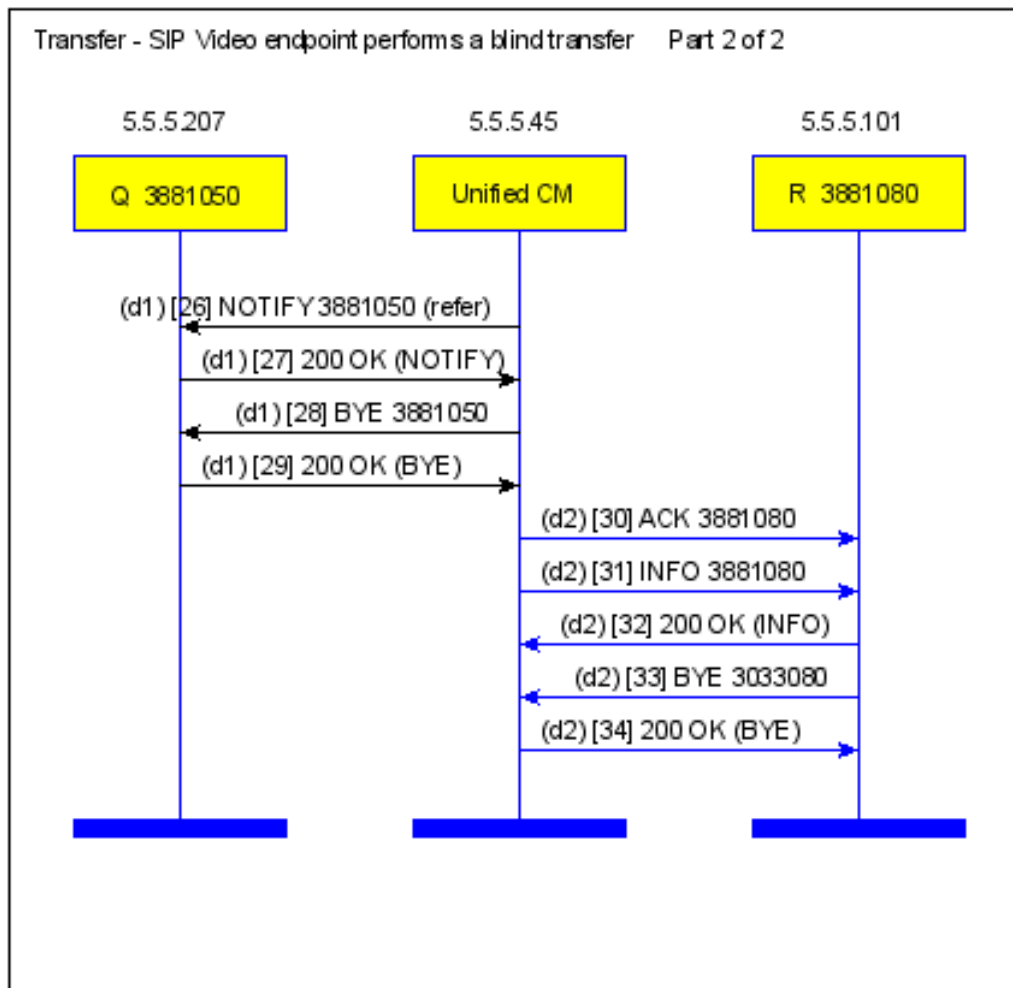
3033080 answers

3881050 performs a blind transfer to 3881080

3033080 and 3881080 have two way speech/video

3881080 goes onhook





[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[1] INVITE sip:3033080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKa835dee342716444
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Supported: replaces, timer, path
 Call-ID: 7ba32925d051c602@5.5.5.207
 CSeq: 8652 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
 Content-Type: application/sdp
 Content-Length: 410

v=0
 o=3881050 8000 8000 IN IP4 5.5.5.207
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 8 4 18 3 101
 a=sendrecv
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:4 G723/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:3 GSM/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-11
 m=video 5006 RTP/AVP 34
 a=sendrecv
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120
 a=framerate:30

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Date: Tue, 15 Jul 2008 17:52:15 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
 Call-ID: 7ba32925d051c602@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKa835dee342716444
 CSeq: 8652 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[3] SIP/2.0 401 Unauthorized

Date: Tue, 15 Jul 2008 17:52:15 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 Allow-Events: presence
 WWW-Authenticate: Digest realm="ccmsipline", nonce="vUsm02/zCeNhFMibHs2MAUX2hEESptim", stale=true, algorithm=MD5
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=446289155
 Call-ID: 7ba32925d051c602@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKa835dee342716444
 CSeq: 8652 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[4] ACK sip:3033080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKa835dee342716444
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=446289155
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Call-ID: 7ba32925d051c602@5.5.5.207
 CSeq: 8652 ACK
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[5] INVITE sip:3033080@titan-pub.sipnet5.com;user=phone SIP/2.0

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKb7a3c7b271a4fd50
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Supported: replaces, timer, path

Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3033080@titan-pub.sipnet5.com;user=phone", nonce="vUsm02/zCeNhFMibHs2MAUX2hEESptim", response="1f46a4a6de0c15cada1a6b820019d357"
 Call-ID: 7ba32925d051c602@5.5.5.207
 CSeq: 8653 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Type: application/sdp
 Content-Length: 410

v=0
 o=3881050 8000 8001 IN IP4 5.5.5.207
 s=SIP Call
 c=IN IP4 5.5.5.207
 t=0 0
 m=audio 5004 RTP/AVP 0 8 4 18 3 101
 a=sendrecv
 a=rtpmap:0 PCMU/8000
 a=rtpmap:8 PCMA/8000
 a=rtpmap:4 G723/8000
 a=rtpmap:18 G729/8000
 a=rtpmap:3 GSM/8000
 a=ptime:20
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-11
 m=video 5006 RTP/AVP 34
 a=sendrecv
 a=rtpmap:34 H263/90000
 a=fmtp:34 CIF=1 MaxBR=5120
 a=framerate:30

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[6] SIP/2.0 100 Trying

Date: Tue, 15 Jul 2008 17:52:15 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>
 Call-ID: 7ba32925d051c602@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKb7a3c7b271a4fd50
 CSeq: 8653 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] SIP/2.0 180 Ringing

Date: Tue, 15 Jul 2008 17:52:15 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 Allow-Events: presence
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
 Contact: <sip:3881050@5.5.5.45:5060>
 Call-ID: 7ba32925d051c602@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKb7a3c7b271a4fd50
 CSeq: 8653 INVITE

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 17:52:15 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 242
 Require: timer
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
 Contact: <sip:3881050@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 7ba32925d051c602@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bKb7a3c7b271a4fd50
 CSeq: 8653 INVITE
 Session-Expires: 1800;refresher=uas

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.224
 t=0 0

```

m=audio 20024 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
m=video 20026 RTP/AVP 34
b=TIAS:384000
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1;MAXBR=3200

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[9] ACK sip:3881050@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK6c3379b2557570d1
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5, uri="sip:3033080@titan-pub.sipnet5.com;user=phone", nonce="vUsm02/zCeNhFMibHs2MAUX2hEESptim",
response="1f46a4a6de0c15cada1a6b820019d357"
Call-ID: 7ba32925d051c602@5.5.5.207
CSeq: 8653 ACK
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[10] INFO sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

```

Date: Tue, 15 Jul 2008 17:52:17 GMT
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
Content-Length: 190
User-Agent: Cisco-CUCM7.0
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
Contact: <sip:3033080@5.5.5.45:5060>
Content-Type: application/media_control+xml
Call-ID: 7ba32925d051c602@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK3149951640
CSeq: 101 INFO
Max-Forwards: 70

```

```

<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<media_control>

```

```

  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>

```

```

</media_control>

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[11] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK3149951640
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
Call-ID: 7ba32925d051c602@5.5.5.207
CSeq: 101 INFO
User-Agent: Grandstream GXV3000 1.1.3.14
Session-Expires: 1800;refresher=uac
Min-SE: 1800
Require: timer
Supported: replaces, timer, 100rel, path
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[12] INVITE sip:3881050@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK5321c821ebe41b72
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Supported: replaces, timer, path
Session-Expires: 1800;refresher=uac
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5,
uri="sip:3881050@5.5.5.45:5060", nonce="vUsm02/zCeNhFMibHs2MAUX2hEESptim",
response="d764ca0f8360f5e42f31e1ad72fb74b6"
Call-ID: 7ba32925d051c602@5.5.5.207
CSeq: 8654 INVITE
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
Content-Type: application/sdp

```

Content-Length: 533

```
v=0
o=3881050 8000 8002 IN IP4 5.5.5.207
s=SIP Call
c=IN IP4 5.5.5.207
t=0 0
m=audio 5004 RTP/AVP 0 8 4 18 3 128
a=sendonly
a=rtpmap:0 PCMU/8000
a=rtpmap:8 PCMA/8000
a=rtpmap:4 G723/8000
a=rtpmap:18 G729/8000
a=rtpmap:3 GSM/8000
aptime:20
a=rtpmap:128 telephone-event/90000
a=fmtp:128 mode=20
a=fmtp:128 profile-level-id=428014; packetization-mode=0; sprop-parameter-sets=Z0KADJWgUH5A,aM4G8g==
a=fmtp:128 0-11
m=video 5006 RTP/AVP 34
a=sendonly
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1 MaxBR=5120
a=framerate:30
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[13] SIP/2.0 100 Trying

```
Date: Tue, 15 Jul 2008 17:52:20 GMT
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
Allow-Events: presence
Content-Length: 0
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
Call-ID: 7ba32925d051c602@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK5321c821ebe41b72
CSeq: 8654 INVITE
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[14] SIP/2.0 200 OK

```
Date: Tue, 15 Jul 2008 17:52:20 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 266
Require: timer
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
Contact: <sip:3881050@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 7ba32925d051c602@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK5321c821ebe41b72
CSeq: 8654 INVITE
Session-Expires: 1800;refresher=uac
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.224
t=0 0
m=audio 20024 RTP/AVP 0
a=rtpmap:0 PCMU/8000
aptime:20
a=recvonly
m=video 20026 RTP/AVP 34
b=TIAS:384000
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1;MAXBR=3200
a=recvonly
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] ACK sip:3881050@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK5ff485e26a654c76
From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5,
uri="sip:3881050@5.5.5.45:5060", nonce="vUsm02/zCeNhFMibHs2MAUX2hEESptim",
response="d764ca0f8360f5e42f31e1ad72fb74b6"
Call-ID: 7ba32925d051c602@5.5.5.207
CSeq: 8654 ACK
```

User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[16] REFER sip:3881050@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK26a410d37f140c15
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Supported: replaces, path
 Refer-To: <sip:3881080@titan-pub.sipnet5.com;user=phone>
 Referred-By: <sip:3881050@5.5.5.207:5060;user=phone>
 Authorization: Digest username="gxv3000", realm="ccmsipline", algorithm=MD5,
 uri="sip:3881050@5.5.5.45:5060", nonce="vUsm02/zCeNhFMibHS2MAUX2hEESptim",
 response="987a49fbb6919ff86cf8a1cf20b811e5"
 Call-ID: 7ba32925d051c602@5.5.5.207
 CSeq: 8655 REFER
 User-Agent: Grandstream GXV3000 1.1.3.14
 Max-Forwards: 70
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[17] SIP/2.0 202 Accepted
 Date: Tue, 15 Jul 2008 17:52:30 GMT
 From: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 Content-Length: 0
 To: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: 7ba32925d051c602@5.5.5.207
 Via: SIP/2.0/UDP 5.5.5.207:5060;branch=z9hG4bK26a410d37f140c15
 CSeq: 8655 REFER

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[18] NOTIFY sip:3881050@5.5.5.207:5060;user=phone SIP/2.0
 Date: Tue, 15 Jul 2008 17:52:30 GMT
 From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
 Event: refer
 Content-Length: 20
 User-Agent: Cisco-CUCM7.0
 To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 Contact: <sip:3033080@5.5.5.45:5060>
 Content-Type: message/sipfrag;version=2.0
 Call-ID: 7ba32925d051c602@5.5.5.207
 Subscription-State: active;expires=60
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK3233459115
 CSeq: 102 NOTIFY
 Max-Forwards: 70

SIP/2.0 100 Trying

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[19] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK3233459115
 From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
 To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 Call-ID: 7ba32925d051c602@5.5.5.207
 CSeq: 102 NOTIFY
 User-Agent: Grandstream GXV3000 1.1.3.14
 Session-Expires: 1800;refresher=uac
 Min-SE: 1800
 Require: timer
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Supported: replaces, timer, 100rel, path
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[20] INVITE sip:3881080@5.5.5.101:5060;user=phone SIP/2.0
 Date: Tue, 15 Jul 2008 17:52:30 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704702
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45;x-cisco-callback-number=3033080>;party=calling;screen=yes;privacy=off
 Content-Length: 0

User-Agent: Cisco-CUCM7.0
 To: <sip:3881080@5.5.5.101>
 Contact: <sip:3033080@5.5.5.45:5060>;video;audio
 Expires: 180
 Call-ID: ca0f4880-87c1e3de-180-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK333c5b76a5
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[21] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK333c5b76a5
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704702
 To: <sip:3881080@5.5.5.101>
 Call-ID: ca0f4880-87c1e3de-180-2d050505@5.5.5.45
 CSeq: 101 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[22] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK333c5b76a5
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704702
 To: <sip:3881080@5.5.5.101>;tag=4005b864da923900
 Call-ID: ca0f4880-87c1e3de-180-2d050505@5.5.5.45
 CSeq: 101 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Contact: <sip:3881080@5.5.5.101:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[23] NOTIFY sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

Date: Tue, 15 Jul 2008 17:52:30 GMT
 From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
 Event: refer
 Content-Length: 21
 User-Agent: Cisco-CUCM7.0
 To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 Contact: <sip:3033080@5.5.5.45:5060>
 Content-Type: message/sipfrag;version=2.0
 Call-ID: 7ba32925d051c602@5.5.5.207
 Subscription-State: active;expires=60
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK34273a820f
 CSeq: 103 NOTIFY
 Max-Forwards: 70

SIP/2.0 180 Ringing

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[24] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK34273a820f
 From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
 To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
 Call-ID: 7ba32925d051c602@5.5.5.207
 CSeq: 103 NOTIFY
 User-Agent: Grandstream GXV3000 1.1.3.14
 Session-Expires: 1800;refresher=uac
 Min-SE: 1800
 Require: timer
 Contact: <sip:3881050@5.5.5.207:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Supported: replaces, timer, 100rel, path
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[25] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK333c5b76a5
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704702
 To: <sip:3881080@5.5.5.101>;tag=4005b864da923900
 Call-ID: ca0f4880-87c1e3de-180-2d050505@5.5.5.45
 CSeq: 101 INVITE
 User-Agent: Grandstream GXV3000 1.1.3.14
 Contact: <sip:3881080@5.5.5.101:5060;user=phone>
 Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
 Content-Type: application/sdp
 Supported: replaces, timer, 100rel, path
 Content-Length: 410


```

V=0
O=3881080 8000 8000 IN IP4 5.5.5.101
S=SIP Call
C=IN IP4 5.5.5.101
T=0 0
M=audio 5004 RTP/AVP 0 8 4 18 3 101
A=sendrecv
A=rtpmap:0 PCMU/8000
A=rtpmap:8 PCMA/8000
A=rtpmap:4 G723/8000
A=rtpmap:18 G729/8000
A=rtpmap:3 GSM/8000
A=ptime:20
A=rtpmap:101 telephone-event/8000
A=fmtp:101 0-11
M=video 5006 RTP/AVP 34
A=sendrecv
A=rtpmap:34 H263/90000
A=fmtp:34 CIF=1 MaxBR=5120
A=framerate:30

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[26] NOTIFY sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

```

Date: Tue, 15 Jul 2008 17:52:32 GMT
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
Event: refer
Content-Length: 16
User-Agent: Cisco-CUCM7.0
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
Contact: <sip:3033080@5.5.5.45:5060>
Content-Type: message/sipfrag;version=2.0
Call-ID: 7ba32925d051c602@5.5.5.207
Subscription-State: terminated
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK35691141a8
CSeq: 104 NOTIFY
Max-Forwards: 70

```

SIP/2.0 200 OK

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[27] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK35691141a8
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
Call-ID: 7ba32925d051c602@5.5.5.207
CSeq: 104 NOTIFY
User-Agent: Grandstream GXV3000 1.1.3.14
Session-Expires: 1800;refresher=uac
Min-SE: 1800
Require: timer
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK
Supported: replaces, timer, 100rel, path
Content-Length: 0

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[28] BYE sip:3881050@5.5.5.207:5060;user=phone SIP/2.0

```

Date: Tue, 15 Jul 2008 17:52:30 GMT
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
Call-ID: 7ba32925d051c602@5.5.5.207
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK3675ab394e
CSeq: 105 BYE
Max-Forwards: 70

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[29] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK3675ab394e
From: <sip:3033080@titan-pub.sipnet5.com;user=phone>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704699
To: <sip:3881050@titan-pub.sipnet5.com;user=phone>;tag=59c71da24d737fe6
Call-ID: 7ba32925d051c602@5.5.5.207
CSeq: 105 BYE
User-Agent: Grandstream GXV3000 1.1.3.14
Session-Expires: 1800;refresher=uac
Min-SE: 1800
Require: timer
Contact: <sip:3881050@5.5.5.207:5060;user=phone>
Allow: INVITE,ACK,CANCEL,BYE,NOTIFY,REFER,OPTIONS,INFO,SUBSCRIBE,UPDATE,PRACK

```

Supported: replaces, timer, 100rel, path
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[30] ACK sip:3881080@5.5.5.101:5060;user=phone SIP/2.0
Date: Tue, 15 Jul 2008 17:52:30 GMT
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704702
Allow-Events: presence
Content-Length: 242
To: <sip:3881080@5.5.5.101>;tag=4005b864da923900
Content-Type: application/sdp
Call-ID: ca0f4880-87c1e3de-180-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK3721e13d76
CSeq: 101 ACK
Max-Forwards: 70

v=0
o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.224
t=0 0
m=audio 20028 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
m=video 20030 RTP/AVP 34
b=TIAS:384000
a=rtpmap:34 H263/90000
a=fmtp:34 CIF=1;MAXBR=3200

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[31] INFO sip:3881080@5.5.5.101:5060;user=phone SIP/2.0
Date: Tue, 15 Jul 2008 17:52:30 GMT
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704702
Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 190
User-Agent: Cisco-CUCM7.0
To: <sip:3881080@5.5.5.101>;tag=4005b864da923900
Contact: <sip:3033080@5.5.5.45:5060>
Content-Type: application/media_control+xml
Call-ID: ca0f4880-87c1e3de-180-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK38794740ec
CSeq: 102 INFO
Max-Forwards: 70

<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<media_control>

<vc_primitive>
 <to_encoder>
 <picture_fast_update/>
 </to_encoder>
</vc_primitive>

</media_control>

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[32] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK38794740ec
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704702
To: <sip:3881080@5.5.5.101>;tag=4005b864da923900
Call-ID: ca0f4880-87c1e3de-180-2d050505@5.5.5.45
CSeq: 102 INFO
User-Agent: Grandstream GXV3000 1.1.3.14
Supported: replaces, timer, 100rel, path
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[33] BYE sip:3033080@5.5.5.45:5060 SIP/2.0
Via: SIP/2.0/UDP 5.5.5.101:5060;branch=z9hG4bKca02d015c5b7b110
From: <sip:3881080@5.5.5.101>;tag=4005b864da923900
To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704702
Call-ID: ca0f4880-87c1e3de-180-2d050505@5.5.5.45
CSeq: 20257 BYE
User-Agent: Grandstream GXV3000 1.1.3.14
Max-Forwards: 70
Allow: INVITE, ACK, CANCEL, BYE, NOTIFY, REFER, OPTIONS, INFO, SUBSCRIBE, UPDATE, PRACK
Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[34] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 17:52:41 GMT
From: <sip:3881080@5.5.5.101>;tag=4005b864da923900
Content-Length: 0
To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704702
Call-ID: ca0f4880-87c1e3de-180-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.101:5060;branch=z9hG4bKca02d015c5b7b110
CSeq: 20257 BYE

10.9 Transfer - Cisco 7985 performs an Attended Transfer

Title: Transfer - Cisco 7985 performs an Attended Transfer

Description:

A 7985 calls a SIP Video endpoint. 7985 video phone performs an attended transfer to another 7985. In this scenario, the SIP Video Phone is the Transferee.

Configuration:

Node = Unified CM, IP = 5.5.5.45

Phone = R, Line = 3501000, IP = 5.5.5.111, Model = SIP Video Phone

Phone = S, Line = 3033080, IP = 5.5.5.224, Model = Cisco 7985

Phone = T, Line = 3033070, IP = 5.5.5.225, Model = Cisco 7985

Scenario:

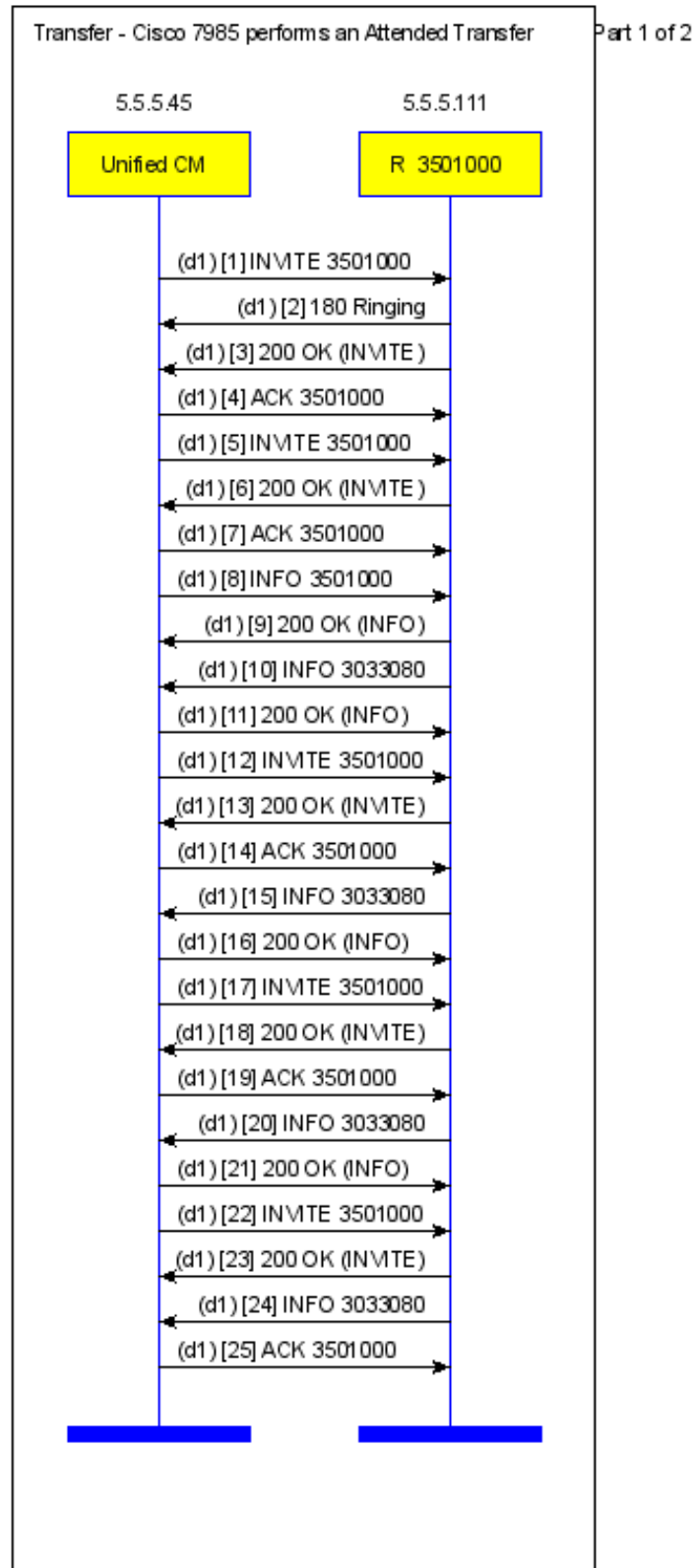
3033080 calls 3501000

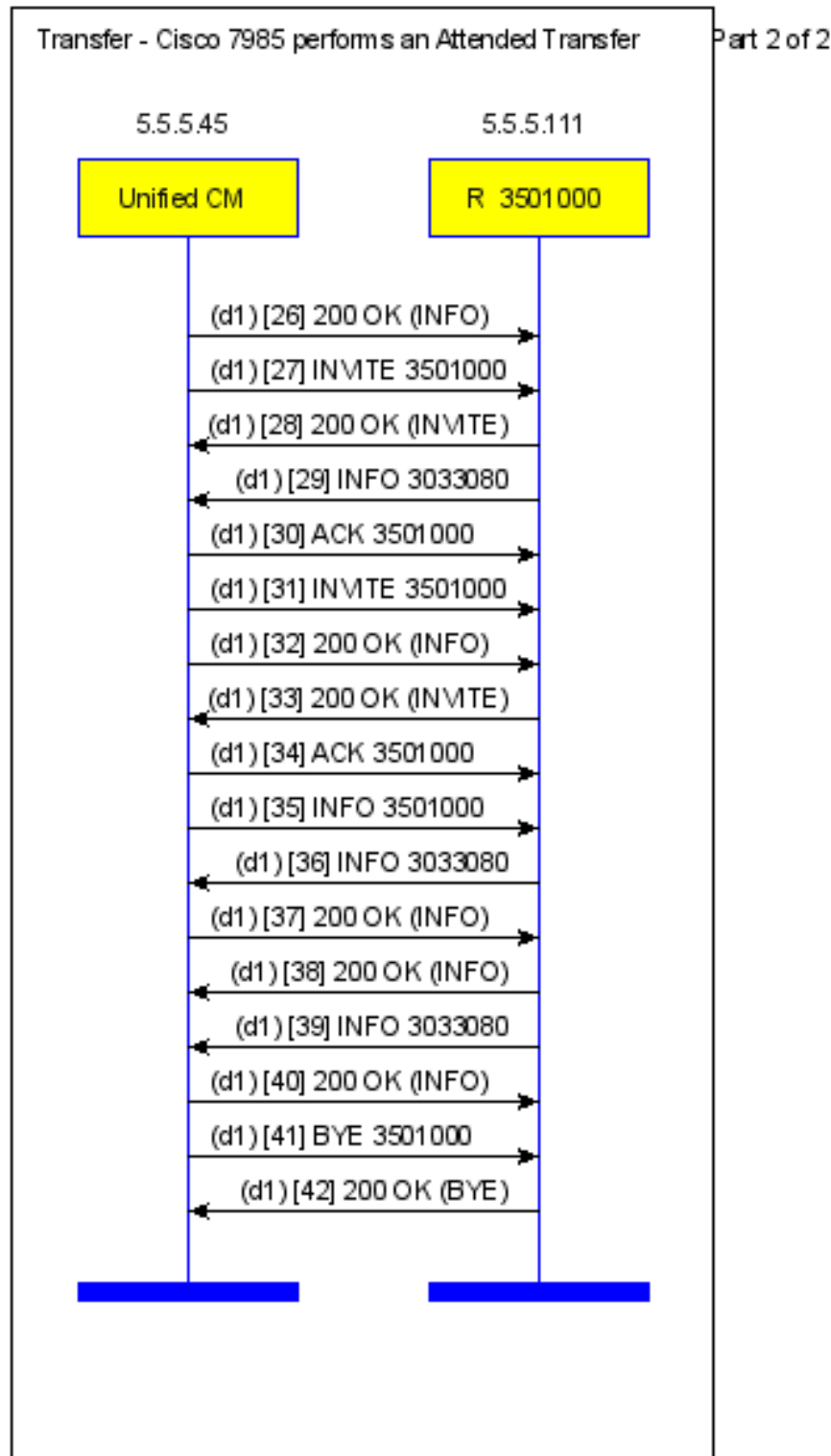
3501000 answers

3033080 performs an attended Transfer to another 7985

3033070 and 3501000 have two way speech/video

3033070 goes onhook





[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[1] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 19:08:06 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45;x-cisco-callback-number=3033080>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>
 Contact: <sip:3033080@5.5.5.45:5060>;video;audio
 Expires: 180
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKca7c101fdc
 CSeq: 101 INVITE
 Max-Forwards: 70
 Alert-Info: <file://Bellcore-dr1/>

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[2] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKca7c101fdc
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 101 INVITE
 User-Agent: SIPVidEndpoint
 Content-Length: 0

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[3] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKca7c101fdc
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 618

v=0
 o=- 89862458 89864535 IN IP4 5.5.5.111
 s=eyeBeam SDK
 c=IN IP4 5.5.5.111
 t=0 0
 m=audio 16386 RTP/AVP 0 8 18 98 102 101
 b=TIAS:64000
 a=alt:1 1 : 4066F116 92E5414B 5.5.5.111 16386
 a=fmtp:101 0-15
 a=maxprate:50.0
 a=rtpmap:98 ilbc/8000
 a=rtpmap:102 l16/16000
 a=rtpmap:101 telephone-event/8000
 a=sendrecv
 m=video 16388 RTP/AVP 97 103 34
 b=TIAS:512000
 a=alt:1 1 : 74B94DE9 652AA6C6 5.5.5.111 16388
 a=fmtp:97 profile-level-id=42e014
 a=fmtp:103 CIF=1 QCIF=1 MAXBR=5120
 a=fmtp:34 CIF=1 QCIF=1 MAXBR=5120
 a=framerate:30
 a=maxprate:100.0
 a=rtpmap:97 h264/90000
 a=rtpmap:103 h263-1998/90000
 a=sendrecv

[[diagram](#)] Call-ID: [[prev](#)][[next](#)]

[4] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 19:08:06 GMT
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Allow-Events: presence
 Content-Length: 249
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Content-Type: application/sdp

Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKcb22fc675e
 CSeq: 101 ACK
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.224
 t=0 0
 m=audio 20088 RTP/AVP 0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 m=video 20090 RTP/AVP 97
 b=TIAS:384000
 a=rtpmap:97 H264/90000
 a=fmtp:97 profile-level-id=420014

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[5] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 19:08:09 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 249
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Contact: <sip:3033080@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKcc4c2b3638
 CSeq: 102 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 1 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.224
 t=0 0
 m=audio 20088 RTP/AVP 0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 m=video 20090 RTP/AVP 97
 b=TIAS:384000
 a=rtpmap:97 H264/90000
 a=fmtp:97 profile-level-id=420014

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[6] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKcc4c2b3638
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 102 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 395

v=0
 o=- 89862458 89864705 IN IP4 5.5.5.111
 s=eyeBeam SDK
 c=IN IP4 5.5.5.111
 t=0 0
 m=audio 16386 RTP/AVP 0
 b=TIAS:64000
 a=alt:1 1 : 4066F116 92E5414B 5.5.5.111 16386
 a=maxprate:50.0
 a=sendrecv
 m=video 16388 RTP/AVP 97
 b=TIAS:384000
 a=alt:1 1 : 74B94DE9 652AA6C6 5.5.5.111 16388
 a=fmtp:97 profile-level-id=42e014
 a=framerate:30


```
a=maxprate:100.0
a=rtpmap:97 h264/90000
a=sendrecv
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[7] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

```
Date: Tue, 15 Jul 2008 19:08:09 GMT
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
Allow-Events: presence
Content-Length: 0
To: <sip:3501000@5.5.5.111>;tag=c2076c6e
Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKcd37f92f87
CSeq: 102 ACK
Max-Forwards: 70
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[8] INFO sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

```
Date: Tue, 15 Jul 2008 19:08:09 GMT
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
Content-Length: 190
User-Agent: Cisco-CUCM7.0
To: <sip:3501000@5.5.5.111>;tag=c2076c6e
Contact: <sip:3033080@5.5.5.45:5060>
Content-Type: application/media_control+xml
Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKce1baff3a0
CSeq: 103 INFO
Max-Forwards: 70
```

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<media_control>
```

```
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
```

```
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[9] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKce1baff3a0
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: <sip:3501000@5.5.5.111>;tag=c2076c6e
From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
CSeq: 103 INFO
User-Agent: SIPVidEndpoint
Allow-Events: dialog, refer
Content-Length: 0
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[10] INFO sip:3033080@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-9a72bb2f2e37e808-1--d87543-;rport
Max-Forwards: 70
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
From: <sip:3501000@5.5.5.111>;tag=c2076c6e
Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
CSeq: 2 INFO
Content-Type: application/media_control+xml
User-Agent: SIPVidEndpoint
Content-Length: 171
```

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[11] SIP/2.0 200 OK

```
Date: Tue, 15 Jul 2008 19:08:10 GMT
From: <sip:3501000@5.5.5.111>;tag=c2076c6e
Content-Length: 0
```

To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-9a72bb2f2e37e808-1--d87543-;rport
 CSeq: 2 INFO

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[12] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 19:08:12 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 291
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Contact: <sip:3033080@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKcf208d0d13
 CSeq: 104 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 t=0 0
 m=audio 20088 RTP/AVP 0
 c=IN IP4 0.0.0.0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=inactive
 m=video 20090 RTP/AVP 97
 c=IN IP4 5.5.5.224
 b=TIAS:384000
 a=rtpmap:97 H264/90000
 a=fmtp:97 profile-level-id=420014
 a=inactive

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[13] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKcf208d0d13
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 104 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 395

v=0
 o=- 89862458 89868150 IN IP4 5.5.5.111
 s=eyeBeam SDK
 c=IN IP4 5.5.5.111
 t=0 0
 m=audio 16386 RTP/AVP 0
 b=TIAS:64000
 a=alt:1 1 : 4066F116 92E5414B 5.5.5.111 16386
 a=inactive
 a=maxprate:50.0
 m=video 16388 RTP/AVP 97
 b=TIAS:384000
 a=alt:1 1 : 74B94DE9 652AA6C6 5.5.5.111 16388
 a=fmtp:97 profile-level-id=42e014
 a=framerate:30
 a=inactive
 a=maxprate:100.0
 a=rtpmap:97 h264/90000

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[14] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 19:08:12 GMT
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Allow-Events: presence

Content-Length: 0
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd0586fc6e3
 CSeq: 104 ACK
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[15] INFO sip:3033080@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-e46f96673551771f-1--d87543-;rport
 Max-Forwards: 70
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 From: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 3 INFO
 Content-Type: application/media_control+xml
 User-Agent: SIPVidEndpoint
 Content-Length: 171

```
<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[16] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 19:08:12 GMT
 From: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Content-Length: 0
 To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-e46f96673551771f-1--d87543-;rport
 CSeq: 3 INFO

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[17] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 19:08:12 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Contact: <sip:3033080@5.5.5.45:5060>
 Expires: 180
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd16aaed02d
 CSeq: 105 INVITE
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[18] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd16aaed02d
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 105 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 562

```
v=0
o=- 89862458 89868237 IN IP4 5.5.5.111
s=eyeBeam SDK
c=IN IP4 5.5.5.111
t=0 0
m=audio 16386 RTP/AVP 0 8 18 98 102
b=TIAS:64000
```

```

a=alt:1 1 : 4066F116 92E5414B 5.5.5.111 16386
a=maxprate:50.0
a=rtpmap:98 ilbc/8000
a=rtpmap:102 l16/16000
a=sendrecv
m=video 16388 RTP/AVP 97 103 34
b=TIAS:512000
a=alt:1 1 : 74B94DE9 652AA6C6 5.5.5.111 16388
a=fmtp:97 profile-level-id=42e014
a=fmtp:103 CIF=1 QCIF=1 MAXBR=5120
a=fmtp:34 CIF=1 QCIF=1 MAXBR=5120
a=framerate:30
a=maxprate:100.0
a=rtpmap:97 h264/90000
a=rtpmap:103 h263-1998/90000
a=sendrecv

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[19] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

```

Date: Tue, 15 Jul 2008 19:08:12 GMT
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
Allow-Events: presence
Content-Length: 181
To: <sip:3501000@5.5.5.111>;tag=c2076c6e
Content-Type: application/sdp
Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd2744c2ed4
CSeq: 105 ACK
Max-Forwards: 70

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.45
t=0 0
m=audio 4000 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
a=sendonly
m=video 0 RTP/AVP 97

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[20] INFO sip:3033080@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-d73ac23d9516bc09-1--d87543-;rport
Max-Forwards: 70
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
From: <sip:3501000@5.5.5.111>;tag=c2076c6e
Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
CSeq: 4 INFO
Content-Type: application/media_control+xml
User-Agent: SIPVidEndpoint
Content-Length: 171

```

```

<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[21] SIP/2.0 200 OK

```

Date: Tue, 15 Jul 2008 19:08:12 GMT
From: <sip:3501000@5.5.5.111>;tag=c2076c6e
Content-Length: 0
To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
Contact: <sip:3033080@5.5.5.45:5060>
Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-d73ac23d9516bc09-1--d87543-;rport
CSeq: 4 INFO

```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[22] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

```

Date: Tue, 15 Jul 2008 19:08:23 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
Allow-Events: presence

```

Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Mark" <sip:3033080@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 180
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Contact: <sip:3033080@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd32122655f
 CSeq: 106 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 0.0.0.0
 t=0 0
 m=audio 4000 RTP/AVP 0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=inactive
 m=video 0 RTP/AVP 97

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[23] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd32122655f
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 106 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 231

v=0
 o=- 89862458 89878736 IN IP4 5.5.5.111
 s=eyeBeam SDK
 c=IN IP4 5.5.5.111
 t=0 0
 m=audio 16386 RTP/AVP 0
 b=TIAS:64000
 a=alt:1 1 : 4066F116 92E5414B 5.5.5.111 16386
 a=inactive
 a=maxprate:50.0
 m=video 0 RTP/AVP 97 103 34

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[24] INFO sip:3033080@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-fb5d8a55fd6f5f24-1--d87543-;rport
 Max-Forwards: 70
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 From: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 5 INFO
 Content-Type: application/media_control+xml
 User-Agent: SIPVidEndpoint
 Content-Length: 171

```
<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[25] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 19:08:23 GMT
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e

Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd435b8f646
 CSeq: 106 ACK
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[26] SIP/2.0 200 OK
 Date: Tue, 15 Jul 2008 19:08:23 GMT
 From: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Content-Length: 0
 To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-fb5d8a55fd6f5f24-1--d87543-;rport
 CSeq: 5 INFO

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[27] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0
 Date: Tue, 15 Jul 2008 19:08:23 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Kara" <sip:3033070@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 197
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Contact: <sip:3033080@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd57ec4252a
 CSeq: 107 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 0.0.0.0
 t=0 0
 m=audio 4000 RTP/AVP 0
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=inactive
 m=video 0 RTP/AVP 97
 a=mid:227378512

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[28] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd57ec4252a
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 107 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 231

v=0
 o=- 89862458 89878837 IN IP4 5.5.5.111
 s=eyeBeam SDK
 c=IN IP4 5.5.5.111
 t=0 0
 m=audio 16386 RTP/AVP 0
 b=TIAS:64000
 a=alt:1 1 : 4066F116 92E5414B 5.5.5.111 16386
 a=inactive
 a=maxprate:50.0
 m=video 0 RTP/AVP 97 103 34

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)

[29] INFO sip:3033080@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-7d455c50cd5a2e1c-1--d87543-;rport
 Max-Forwards: 70
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739

From: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 6 INFO
 Content-Type: application/media_control+xml
 User-Agent: SIPVidEndpoint
 Content-Length: 171

```
<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[30] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 19:08:23 GMT
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd674f83b3f
 CSeq: 107 ACK
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[31] INVITE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 19:08:23 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Kara" <sip:3033070@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Contact: <sip:3033080@5.5.5.45:5060>
 Expires: 180
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd7396609f7
 CSeq: 108 INVITE
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[32] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 19:08:23 GMT
 From: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Content-Length: 0
 To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-7d455c50cd5a2e1c-1--d87543-;rport
 CSeq: 6 INFO

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[33] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd7396609f7
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 108 INVITE
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 Content-Type: application/sdp
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 562

```
v=0
o=- 89862458 89878935 IN IP4 5.5.5.111
s=eyeBeam SDK
c=IN IP4 5.5.5.111
t=0 0
m=audio 16386 RTP/AVP 0 8 18 98 102
b=TIAS:64000
a=alt:1 1 : 4066F116 92E5414B 5.5.5.111 16386
```



```

a=maxprate:50.0
a=rtpmap:98 ilbc/8000
a=rtpmap:102 l16/16000
a=sendrecv
m=video 16388 RTP/AVP 97 103 34
b=TIAS:512000
a=alt:1 1 : 74B94DE9 652AA6C6 5.5.5.111 16388
a=fmtp:97 profile-level-id=420014
a=fmtp:103 CIF=1 QCIF=1 MAXBR=5120
a=fmtp:34 CIF=1 QCIF=1 MAXBR=5120
a=framerate:30
a=maxprate:100.0
a=rtpmap:97 h264/90000
a=rtpmap:103 h263-1998/90000
a=sendrecv

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[34] ACK sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

```

Date: Tue, 15 Jul 2008 19:08:23 GMT
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
Allow-Events: presence
Content-Length: 249
To: <sip:3501000@5.5.5.111>;tag=c2076c6e
Content-Type: application/sdp
Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd860425364
CSeq: 108 ACK
Max-Forwards: 70

```

```

v=0
o=CiscoSystemsCCM-SIP 2000 5 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.225
t=0 0
m=audio 20046 RTP/AVP 0
a=rtpmap:0 PCMU/8000
a=ptime:20
m=video 20048 RTP/AVP 97
b=TIAS:384000
a=rtpmap:97 H264/90000
a=fmtp:97 profile-level-id=420014

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[35] INFO sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

```

Date: Tue, 15 Jul 2008 19:08:23 GMT
From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
Remote-Party-ID: "Kara" <sip:3033070@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 190
User-Agent: Cisco-CUCM7.0
To: <sip:3501000@5.5.5.111>;tag=c2076c6e
Contact: <sip:3033080@5.5.5.45:5060>
Content-Type: application/media_control+xml
Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd9226f5571
CSeq: 109 INFO
Max-Forwards: 70

```

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
```

```
<media_control>
```

```

  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>

```

```
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[36] INFO sip:3033080@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-0918db5a9f3f2f4f-1--d87543-;rport
Max-Forwards: 70
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
From: <sip:3501000@5.5.5.111>;tag=c2076c6e
Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
CSeq: 7 INFO
Content-Type: application/media_control+xml
User-Agent: SIPVidEndpoint
Content-Length: 171

```



```
<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[37] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 19:08:23 GMT
 From: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Content-Length: 0
 To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-0918db5a9f3f2f4f-1--d87543-;rport
 CSeq: 7 INFO

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[38] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd9226f5571
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 109 INFO
 User-Agent: SIPVidEndpoint
 Allow-Events: dialog, refer
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[39] INFO sip:3033080@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-14441b704f3bab44-1--d87543-;rport
 Max-Forwards: 70
 Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
 To: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 From: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 CSeq: 8 INFO
 Content-Type: application/media_control+xml
 User-Agent: SIPVidEndpoint
 Content-Length: 171

```
<?xml version="1.0" encoding="UTF-8"?>
<media_control>
  <vc_primitive>
    <to_encoder>
      <picture_fast_update/>
    </to_encoder>
  </vc_primitive>
</media_control>
```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[40] SIP/2.0 200 OK

Date: Tue, 15 Jul 2008 19:08:24 GMT
 From: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Content-Length: 0
 To: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Contact: <sip:3033080@5.5.5.45:5060>
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.111:50000;branch=z9hG4bK-d87543-14441b704f3bab44-1--d87543-;rport
 CSeq: 8 INFO

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[41] BYE sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f SIP/2.0

Date: Tue, 15 Jul 2008 19:08:24 GMT
 From: "Mark" <sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3501000@5.5.5.111>;tag=c2076c6e
 Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdaddaa030
 CSeq: 110 BYE
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)

[42] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdaddaa030
Contact: <sip:3501000@5.5.5.111:50000;rinstance=d4742a5ccd472c4f>
To: <sip:3501000@5.5.5.111>;tag=c2076c6e
From: "Mark"<sip:3033080@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-32704739
Call-ID: 59b9f480-87c1f596-279-2d050505@5.5.5.45
CSeq: 110 BYE
User-Agent: SIPVidEndpoint
Allow-Events: dialog, refer
Content-Length: 0