



Cisco Unified Communications Manager SIP Line Messaging Guide (Standard)

This document applies to Cisco Unified Communications Manager Release 7.0(1).

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Preface

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

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 Communications Manager 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*.



Timesaver

Means *the described action saves time*. You can save time by performing the action described in the paragraph.

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 Communications Manager 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 Communications Manager 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 1-19](#)

Definitions/Glossary

Acronym/Word	Definition
BLF	Busy Lamp Field
Cseq	Call Sequence Number
CTI	Computer Telephony Integration
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
MTP	Media Termination Point
MWI	Message Waiting Indication
OOB	Out Of Band
OOD	Out of Dialog

Acronym/Word	Definition
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
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

This release of the Cisco Unified Communications Manager SIP Line Messaging Guide (Standard) introduces no major enhancements or fixes to the SIP line interface.

Standard Interface Compliance Summary

This section provides details about Cisco Unified Communications Manager SIP line interface standards compliance. The [“Standard Feature Scenarios” section on page 1-19](#) 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

Table 1-1 *Applicable Standards and Drafts - Standard Interface (continued)*

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 Communications Manager Supported	Comments
INVITE	Yes	The system also supports re-INVITE.
ACK	Yes	—
OPTIONS	Yes	Cisco Unified Communications Manager will respond to it if received. Cisco Unified Communications Manager 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 Communications Manager line side does not generate outbound REFER for transfer.
REGISTER	Yes	—
PRACK	Yes	You can configure support for PRACK.
UPDATE	Yes	Cisco Unified Communications Manager supports receiving and generating UPDATE.
PUBLISH	No	—

Table 1-3 *Compliance to SIP Responses*

SIP Message	Cisco Unified Communications Manager Supported	Comments
1xx Response	Yes	—
100 Trying	Yes	—
180 Ringing	Yes	—
181 Call Forward	No	Cisco Unified Communications Manager ignores this message.
182 Queued	No	Cisco Unified Communications Manager ignores this message.

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

SIP Message	Cisco Unified Communications Manager Supported	Comments
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 Communications Manager SIP sends out message 401 (Unauthorized) if authentication and authorization are enabled. Cisco Unified Communications Manager SIP also responds to inbound 401 challenges.
403	Yes	Cisco Unified Communications Manager 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 Communications Manager SIP responds to inbound 407 (Proxy Authentication Required) challenges.
412	Yes	Cisco Unified Communications Manager SIP sends out 412 if a PUBLISH refresh or PUBLISH remove request is received with an unknown entity tag.
423	Yes	Cisco Unified Communications Manager 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 Communications Manager Supported	Comments
Accept	Yes	—
Accept-Encoding	No	—

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

SIP Headers	Cisco Unified Communications Manager Supported	Comments
Accept-Language	No	—
Alert-Info	Yes	Cisco Unified Communications Manager 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 Communications Manager will ignore this header if it gets received. Cisco Unified Communications Manager 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 Communications Manager 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 Communications Manager SIP supports receiving this header in 407 responses.
Proxy-Authorization	Yes	Cisco Unified Communications Manager SIP supports sending new request with this header after it receives 407 responses.
Proxy-Require	No	—
Record-Route	Yes	—
Reply-To	No	—
Require	Yes	—

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

SIP Headers	Cisco Unified Communications Manager Supported	Comments
Retry-After	Yes	Send it but ignore receiving it.
Route	Yes	—
Server	Yes	—
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

The following table 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 Communications Manager 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 Communications Manager 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 Communications Manager 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 Communications Manager 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 Communications Manager 7.0 introduces the ability to convey the localized and global form of a calling number from Cisco Unified Communications Manager to the receiving endpoint, which is known as *Calling Party Normalization* (CPN). As an 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 captures support levels for various 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 Communications Manager. 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 end user.
party	calling called	Ignored if Cisco Unified Communications Manager receives it. Set to called for outgoing INVITE or UPDATE from Cisco Unified Communications Manager. Set to calling for outgoing responses from Cisco Unified Communications Manager.

Table 1-6 Identification Parameters Support

id-type	subscriber user term	Ignored if Cisco Unified Communications Manager receives it. Set to subscriber for outgoing requests and responses.
privacy	full name uri off	Supported if Cisco Unified Communications Manager receives it. Cisco Unified Communications Manager will also support sending all values in either INVITE or UPDATE requests and responses for the same.
screen	no yes	Ignored if Cisco Unified Communications Manager receives it. Cisco Unified Communications Manager 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.

```
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 Communications Manager 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 Communications Manager 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
```

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	Type supports all combinations of annex A and B.
RFC2833 DTMF	Telephony-event	Dynamically Assigned	Acceptable range is 96 through 127.

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 Alerting indication.
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.

Table 1-12 **Supported Content Types (continued)**

Content Type	Comments
application/x-cisco-remotecc-cm+xml	See refer package and remotecc.
application/x-cisco-servicecontrol	See service-control package.
multipart/mixed	See refer package and remotecc.

SIP Message Fields

Cisco Unified Communications Manager 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 1-14](#)

INVITE

Table 1-13 **INVITE Message Fields**

Message Lines	Variable	Incoming (to Cisco Unified Communications Manager)	Outgoing (from Cisco Unified Communications Manager)
INVITE sip:userpart@destIP:destPort SIP/2.0	userpart	Called Party Number	Calling Party Number
	destIP	Cisco Unified Communications Manager IP address or FQDN	Endpoint IP address
	destPort	Cisco Unified Communications Manager SIP port	Endpoint SIP port

Table 1-13 INVITE Message Fields (continued)

Message Lines	Variable	Incoming (to Cisco Unified Communications Manager)	Outgoing (from Cisco Unified Communications Manager)
Via: SIP/2.0/UDP ip:port;Branch=number	ip	Endpoint IP address	Cisco Unified Communications Manager IP address
	port	Endpoint SIP port	Cisco Unified Communications Manager SIP port
	number	Endpoint branch number	Cisco Unified Communications Manager 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 Communications Manager IP address or FQDN	Cisco Unified Communications Manager IP address
	from-tag	Endpoint local tag	Cisco Unified Communications Manager local tag
To: <sip:userpart@destIP>	userpart	Called Party Number	Called Party Number
	destIP	Cisco Unified Communications Manager 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 Communications Manager IP address
	params	Varies per Endpoint	Varies per Cisco Unified Communications Manager configuration
Call-ID: string	string	Endpoint-generated string	Cisco Unified Communications Manager generated string
Contact: <sip:userpart@ip:port >	userpart	Calling Party Number	Calling Party Number
	ip	Endpoint IP address	Cisco Unified Communications Manager IP address
	port	Endpoint port	Cisco Unified Communications Manager port
Cseq: number method	number	sequence number	sequence number
	method	SIP method	SIP method

Table 1-13 *INVITE Message Fields (continued)*

Message Lines	Variable	Incoming (to Cisco Unified Communications Manager)	Outgoing (from Cisco Unified Communications Manager)
Max-Forwards: number	number	Max forwards	Max forwards
SDP [sdp]	sdp	Endpoint SDP	Cisco Unified Communications Manager 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 Communications Manager 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 1-16](#)
- [2xx, page 1-16](#)

180 Ringing

Table 1-14 *180 Ringing Message Fields*

Message Lines	Variable	Outgoing (from Cisco Unified Communications Manager)	Incoming (to Cisco Unified Communications Manager)
SIP/2.0 180 Ringing			

Table 1-14 180 Ringing Message Fields (continued)

Message Lines	Variable	Outgoing (from Cisco Unified Communications Manager)	Incoming (to Cisco Unified Communications Manager)
Via: SIP/2.0/UDP ip:port;Branch=number	ip	Endpoint IP address	Cisco Unified Communications Manager IP address
	port	Endpoint SIP port	Cisco Unified Communications Manager SIP port
	number	Endpoint branch number	Cisco Unified Communications Manager 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 Communications Manager IP address or FQDN	Cisco Unified Communications Manager IP address
	from-tag	Endpoint local tag	Cisco Unified Communications Manager local tag
To: <sip:userpart@destIP>;tag=to-tag	userpart	Called Party Number	Called Party Number
	destIP	Cisco Unified Communications Manager IP address or FQDN	Endpoint IP address
	to-tag	Cisco Unified Communications Manager 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 Communications Manager IP address	Endpoint IP address
	params	Varies per Cisco Unified Unified CM processing	Varies per endpoint processing
Call-ID: string	string	Endpoint-generated string from the initial INVITE	Cisco Unified Communications Manager-generated string from the initial INVITE

Table 1-14 180 Ringing Message Fields (continued)

Message Lines	Variable	Outgoing (from Cisco Unified Communications Manager)	Incoming (to Cisco Unified Communications Manager)
Contact: <sip:userpart@ip:port >	userpart	Called Party Number	Called Party Number
	ip	Cisco Unified Communications Manager IP address	Endpoint IP address
	port	Cisco Unified Communications Manager 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 Communications Manager 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 2XX Message Fields

Message Lines	Variable	Outgoing (from Cisco Unified Communications Manager)	Incoming (to Cisco Unified Communications Manager)
SIP/2.0 200 OK			
Via: SIP/2.0/UDP ip:port;Branch=number	ip	Endpoint IP address	Cisco Unified Communications Manager IP address
	port	Endpoint SIP port	Cisco Unified Communications Manager SIP port
	number	Endpoint branch number	Cisco Unified Communications Manager branch number

Table 1-15 2XX Message Fields (continued)

Message Lines	Variable	Outgoing (from Cisco Unified Communications Manager)	Incoming (to Cisco Unified Communications Manager)
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 Communications Manager IP address or FQDN	Cisco Unified Communications Manager IP address
	from-tag	Endpoint local tag	Cisco Unified Communications Manager local tag
To: <sip:userpart@destIP>;tag=to-tag	userpart	Called Party Number	Called Party Number
	destIP	Cisco Unified Communications Manager IP address or FQDN	Endpoint IP address
	to-tag	Cisco Unified Communications Manager 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 Communications Manager IP address	Endpoint IP address
	params	Varies per Cisco Unified Communications Manager processing	Varies per endpoint processing
Call-ID: string	string	Endpoint-generated string from the initial INVITE	Cisco Unified Communications Manager- generated string from the initial INVITE
Contact: <sip:userpart@ip:port >	userpart	Called Party Number	Called Party Number
	ip	Cisco Unified Communications Manager IP address	Endpoint IP address
	port	Cisco Unified Communications Manager port	Endpoint port
Cseq: number INVITE	number	Sequence number from initial INVITE	Sequence number from initial INVITE
SDP [sdp]	sdp	Cisco Unified Communications Manager SDP	Endpoint SDP

Message Timers

The following timers are service parameters that are configurable in Cisco Unified Communications Manager Administration. Cisco Unified Communications Manager maintains the following configuration data for the SIP timers.

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
re1xx	500 ms / 100–1000 ms	The time that Cisco Unified Communications Manager should wait before retransmitting the reliable 1xx responses
prack	500 ms / 100–1000 ms	The time that Cisco Unified Communications Manager should wait before retransmitting the PRACK request
notify	500 ms / 100–1000 ms	The time that Cisco Unified Communications Manager should wait before retransmitting the Notify message
Publish	2147483647	Cisco Unified Communications Manager does not manage a timer for aging out published event state data it receives from endpoints. Cisco Unified Communications Manager requires endpoints to specify an expires time of 2147483647 when publishing event state data to Cisco Unified Communications Manager.

Message Retry Counts

All the following retry counts are service parameters that are configurable in Cisco Unified Communications Manager Administration. Cisco Unified Communications Manager maintains the following configuration data for the SIP retries. 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 **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 Communications Manager line-side interface. This includes, but is not limited to, the following features:

- [Registration, page 1-19](#)
- [Basic Call, page 1-21](#)
- [Simple Hold and Resume, page 1-21](#)
- [Transfer, page 1-21](#)
- [Three-Way Calling, page 1-23](#)
- [Call Forwarding, page 1-23](#)
- [Message Waiting Indication, page 1-24](#)
- [Endpoint Returns 302 Redirect, page 1-25](#)
- [Endpoint Returns 486 Busy, page 1-25](#)

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

Registration

Cisco Unified Communications Manager supports standard RFC3261 registration from any compliant SIP phone. Because Cisco Unified Communications Manager 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 Communications Manager 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 Communications Manager relies on the HTTP digest user ID to identify the sending device.

Knowledge of the sending device and line allows Cisco Unified Communications Manager 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 Communications Manager needs to 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 Communications Manager uses the HTTP digest user ID. Each device that is configured in Cisco Unified Communications Manager requires a unique digest user ID. When the device sends the REGISTER, Cisco Unified Communications Manager 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 Communications Manager database, Cisco Unified Communications Manager will respond with a 404 Not Found.

MultiLine Registration

Multiple lines can register with Cisco Unified Communications Manager as long as they each have a different 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 Communications Manager uses REGISTER refreshes as keepalive messages to ensure the phone is still alive and connected. When the phone first registers with Cisco Unified Communications Manager, 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 Communications Manager 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 Communications Manager between that device ID and the transport address. This binding gets created because Cisco Unified Communications Manager 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 Communications Manager 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 Communications Manager cannot determine whether the TCP connection will be transient (a new connection gets used for each transaction) or persistent. Therefore, Cisco Unified Communications Manager 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 Communications Manager includes a minor deviation from RFC3261 for the case of multiple registration bindings for a single address of record. Under the Cisco Unified Communications Manager 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 Communications Manager 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 Communications Manager; it can only refresh or delete its own binding.

Basic Call

Cisco Unified Communications Manager 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 Communications Manager will send out INVITE without SDP. This allows Cisco Unified Communications Manager to discover the capabilities of both sides and provide media services in between if necessary (for example, transcoding).

Simple Hold and Resume

Cisco Unified Communications Manager 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.

For call transfer, three actors exist:

- The person who is being transferred is known as the transferee.
- The person who is transferring the call is known as the transferor.
- The person who is receiving the transfer is known as the transfer target or simply the target.

Cisco Unified Communications Manager 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 Communications Manager knows that the calls are associated.

Because Cisco Unified Communications Manager 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 Communications Manager and each phone stay independent. Instead, Cisco Unified Communications Manager 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 Communications Manager 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:
 - reINVITE to connect media
 - 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.



Note

Version 04 of the replaces draft came after the existing implementation. Nevertheless, Cisco will continue to use this flow in a Cisco Unified Communications Manager environment for now.

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 Communications Manager registers that the calls are associated. Because Cisco Unified Communications Manager 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 Communications Manager and each phone stay independent. Instead, Cisco Unified Communications Manager 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 Communications Manager 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:
 - reINVITE to connect media
 - UPDATE display name and number via Remote-Party-ID header

- 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 Communications Manager line-side SIP endpoints. To support local mixing on the phone, Cisco Unified Communications Manager must allow the endpoint to have multiple active calls. Cisco Unified Communications Manager will allow this for SIP endpoints. From the Cisco Unified Communications Manager perspective, a locally mixed three-way call (or an n-way call) just looks like individual active calls. Cisco Unified Communications Manager does not perceive local mixing. Cisco Unified Communications Manager 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.1 to Cisco Unified Communications Manager dialog
 - Cisco Unified Communications Manager to B dialog
2. A.2 to C call
 - A.2 to Cisco Unified Communications Manager dialog
 - Cisco Unified Communications Manager 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 Communications Manager will invoke its attended transfer feature, which results in the remaining parties being connected together. Refer to the [“Attended Transfer” section on page 1-21](#) 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 Communications Manager 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 Communications Manager 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 Communications Manager, so Cisco Unified Communications Manager 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 1-25](#)) and 486 (See [“Endpoint Returns 486 Busy” section on page 1-25](#)) response codes, respectively, to the INVITE.

Cisco Unified Communications Manager 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 Communications Manager indicates forwarding to the called (or current forwarded-to) party by using “Diversion:” headers in subsequent INVITEs. Cisco Unified Communications Manager 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 Communications Manager. 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 Communications Manager 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 Communications Manager 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 Communications Manager.

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 Communications Manager, 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 Communications Manager 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 Communications Manager with a “busy trigger.” After the number of active calls to that line reaches the busy trigger, Cisco Unified Communications Manager 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 Communications Manager 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 Communications Manager 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.



CHAPTER 2

SIP Basic Line Call Flows

This chapter describes the SIP basic line side call flows for Cisco Unified Communications Manager. It shows the interfaces and interactions between Cisco Unified Communications Manager 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 Communications Manager. 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 Communications Manager 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 Communications Manager 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.

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](#)

2. Basic Call

- 2.1 [Basic Call - SIP Basic calls SIP Basic](#)
- 2.2 [Basic Call - SIP Basic phone calls an SCCP phone](#)
- 2.3 [Basic Call - SIP Basic calls SIP Basic - No Caller Id Restrictions](#)
- 2.4 [Basic Call - SIP Basic calls SIP Basic - Caller Id Restrictions](#)
- 2.5 [Multiple Lines Per Phone](#)
- 2.6 [Multiple Calls Per Line](#)
- 2.7 [Basic Call - SIP Basic calls SIP Basic No Answer](#)
- 2.8 [Call Screening \(Normal blocked\)](#)
- 2.9 [Call Screening \(Rejected blocked\)](#)
- 2.10 [Basic Call - SIP Basic calls unknown number](#)
- 2.11 [486 Busy Here](#)

3. Hold Resume

- 3.1 [Basic Call - Call Hold and Resume \(SIP to SIP\)](#)
- 3.2 [Basic Call - Call Hold and Resume \(SIP to SCCP\)](#)
- 3.3 [Basic Call - Call Hold and Resume \(SCCP to SIP\)](#)

4. Conference

- 4.1 [Three Way Conference Calling \(SIP Basic Phones\)](#)

5. Transfer

- 5.1 [Transfer Attended \(All SIP Basic phones\)](#)
- 5.2 [Transfer Semi-Attended \(All SIP Basic phones\)](#)
- 5.3 [Transfer Unattended \(SIP Basic phones\)](#)

6. Call Forwarding

- 6.1 [Call Forward All](#)
- 6.2 [Call Forward No Answer](#)
- 6.3 [Call Forward Busy](#)
- 6.4 [Call Forward Two Hops](#)
- 6.5 [302 Redirect](#)

7. Call Forking

- 7.1 [Call Forking](#)

8. Distinctive Ringing

- 8.1 [Alert Info - Internal](#)
- 8.2 [Alert Info - External](#)

9. Message Waiting Indicator

- 9.1 [Message Waiting Indication On](#)
- 9.2 [Message Waiting Indication Off](#)
- 9.3 [Message Waiting Indication On at Registration](#)
- 9.4 [Message Waiting Indication Off at Registration](#)

10. Video

- 10.1 [Basic Call - SIP Video Phone calls another SIP Video Phone](#)
- 10.2 [Basic Call - SIP Video Phone calls a Cisco 7985 video phone](#)
- 10.3 [Basic Call - CUPC SIP endpoint calls a SIP Video Phone](#)
- 10.4 [Hold Resume - SIP video endpoints](#)
- 10.5 [Hold Resume - SIP Video Phone hold/resume Cisco 7985 video phone](#)
- 10.6 [Hold Resume - 7985 video phone hold/resume of a SIP Video Phone](#)
- 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

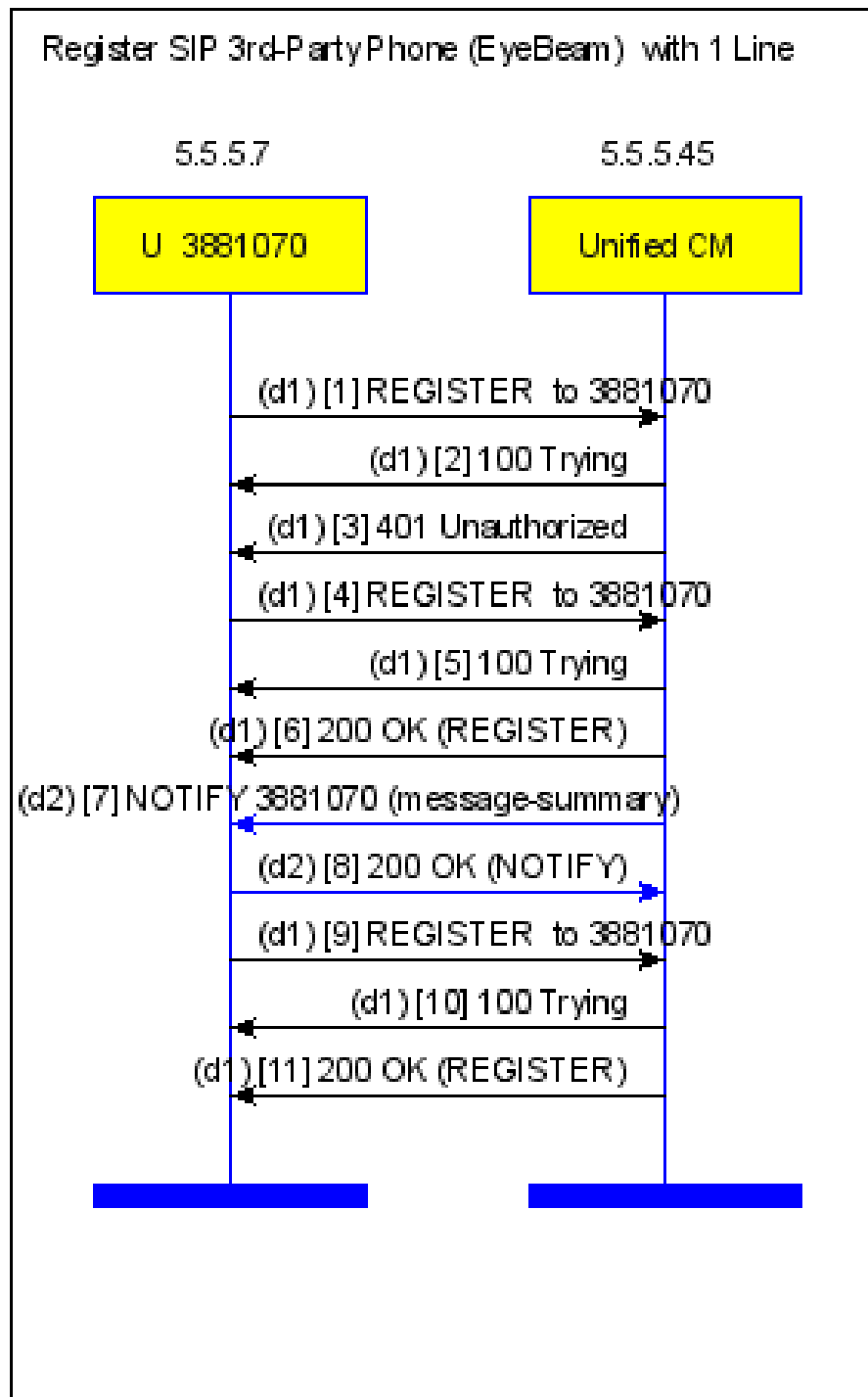
Unified CM challenges register with 401 response

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 5.5.5.7:38532;branch=z9hG4bK-d87543-34691657b256150f-1--d87543-;rport
Max-Forwards: 70
Contact: <sip:3881070@5.5.5.7:38532;rinstance=61d3d1a2f486b404>
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=07672723
Call-ID: 1672ee117a0ab621NGE1MjNkMTdhMDdjZjFiNDk2Y2RiYTE3YTM1OWMwY2M.
CSeq: 1 REGISTER
Expires: 300
Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
User-Agent: eyeBeam release 1003l stamp 30936
Content-Length: 0

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

[2] SIP/2.0 100 Trying

Date: Tue, 17 Jun 2008 15:34:39 GMT
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=07672723
Content-Length: 0
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>
Call-ID: 1672ee117a0ab621NGE1MjNkMTdhMDdjZjFiNDk2Y2RiYTE3YTM1OWMwY2M.
Via: SIP/2.0/UDP 5.5.5.7:38532;branch=z9hG4bK-d87543-34691657b256150f-1--d87543-;rport
CSeq: 1 REGISTER

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

[3] SIP/2.0 401 Unauthorized

Date: Tue, 17 Jun 2008 15:34:39 GMT
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=07672723
WWW-Authenticate: Digest realm="ccmsipline", nonce="TvFkTdPU+e0Fdn7np+PQ98028bLx1ZW", algorithm=MD5
Content-Length: 0
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=252037653
Call-ID: 1672ee117a0ab621NGE1MjNkMTdhMDdjZjFiNDk2Y2RiYTE3YTM1OWMwY2M.
Via: SIP/2.0/UDP 5.5.5.7:38532;branch=z9hG4bK-d87543-34691657b256150f-1--d87543-;rport
CSeq: 1 REGISTER

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

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

Via: SIP/2.0/UDP 5.5.5.7:38532;branch=z9hG4bK-d87543-83097e10b7362c70-1--d87543-;rport
Max-Forwards: 70
Contact: <sip:3881070@5.5.5.7:38532;rinstance=61d3d1a2f486b404>
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=07672723
Call-ID: 1672ee117a0ab621NGE1MjNkMTdhMDdjZjFiNDk2Y2RiYTE3YTM1OWMwY2M.
CSeq: 2 REGISTER
Expires: 300
Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
User-Agent: eyeBeam release 1003l stamp 30936
Authorization: Digest
username="eyebeam", realm="ccmsipline", nonce="TvFkTdPU+e0Fdn7np+PQ98028bLx1ZW", uri="sip:titan-pub.sipnet5.com", response="df4010fd6a80a29e49dbe5a55effef90", algorithm=MD5
Content-Length: 0

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

[5] SIP/2.0 100 Trying

Date: Tue, 17 Jun 2008 15:34:39 GMT
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=07672723
Content-Length: 0
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=252037653
Call-ID: 1672ee117a0ab621NGE1MjNkMTdhMDdjZjFiNDk2Y2RiYTE3YTM1OWMwY2M.
Via: SIP/2.0/UDP 5.5.5.7:38532;branch=z9hG4bK-d87543-83097e10b7362c70-1--d87543-;rport
CSeq: 2 REGISTER

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

[6] SIP/2.0 200 OK

Date: Tue, 17 Jun 2008 15:34:39 GMT
From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=07672723
Supported: X-cisco-sis-3.0.0
Content-Length: 0
To: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=252037653
Contact: <sip:3881070@5.5.5.7:38532;rinstance=61d3d1a2f486b404>;x-cisco-newreg
Expires: 120
Call-ID: 1672ee117a0ab621NGE1MjNkMTdhMDdjZjFiNDk2Y2RiYTE3YTM1OWMwY2M.
Via: SIP/2.0/UDP 5.5.5.7:38532;branch=z9hG4bK-d87543-83097e10b7362c70-1--d87543-;rport
CSeq: 2 REGISTER

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

[7] NOTIFY sip:3881070@5.5.5.7:38532;rinstance=61d3d1a2f486b404 SIP/2.0

Date: Tue, 17 Jun 2008 15:34:39 GMT
From: <sip:3881070@5.5.5.45>;tag=1650251715
Event: message-summary

Content-Length: 22
 User-Agent: Cisco-CUCM7.0
 To: <sip:3881070@5.5.5.7>
 Contact: <sip:3881070@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Call-ID: e497d700-8571d98f-b528-2d050505@5.5.5.45
 Subscription-State: active
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKbfd674ba04d
 CSeq: 101 NOTIFY
 Max-Forwards: 70

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=z9hG4bKbfd674ba04d
 Contact: <sip:5.5.5.7:38532>
 To: <sip:3881070@5.5.5.7>;tag=b7559405
 From: <sip:3881070@5.5.5.45>;tag=1650251715
 Call-ID: e497d700-8571d98f-b528-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 User-Agent: eyeBeam release 1003l stamp 30936
 Content-Length: 0

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

[9] REGISTER sip:titan-pub.sipnet5.com SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.7:38532;branch=z9hG4bK-d87543-e825901776710471-1--d87543-;rport
 Max-Forwards: 70
 Contact: <sip:3881070@5.5.5.7:38532;rinstance=61d3d1a2f486b404>
 To: "3881070"<sip:3881070@titan-pub.sipnet5.com>
 From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=07672723
 Call-ID: 1672ee117a0ab621NGE1MjNkMTdhMDdjZjFiNDk2Y2RiYTE3YTM1OWMwY2M.
 CSeq: 3 REGISTER
 Expires: 300
 Allow: INVITE, ACK, CANCEL, OPTIONS, BYE, REFER, NOTIFY, MESSAGE, SUBSCRIBE, INFO
 User-Agent: eyeBeam release 1003l stamp 30936
 Authorization: Digest
 username="eyebeam", realm="ccmsipline", nonce="TvFkTdPU+e0Fdn7np+PQ98028blAx1ZW", uri="sip:titan-pub.sipnet5.com", response="df4010fd6a80a29e49dbe5a55effef90", algorithm=MD5
 Content-Length: 0

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

[10] SIP/2.0 100 Trying
 Date: Tue, 17 Jun 2008 15:36:28 GMT
 From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=07672723
 Content-Length: 0
 To: "3881070"<sip:3881070@titan-pub.sipnet5.com>
 Call-ID: 1672ee117a0ab621NGE1MjNkMTdhMDdjZjFiNDk2Y2RiYTE3YTM1OWMwY2M.
 Via: SIP/2.0/UDP 5.5.5.7:38532;branch=z9hG4bK-d87543-e825901776710471-1--d87543-;rport
 CSeq: 3 REGISTER

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

[11] SIP/2.0 200 OK
 Date: Tue, 17 Jun 2008 15:36:28 GMT
 From: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=07672723
 Supported: X-cisco-sis-3.0.0
 Content-Length: 0
 To: "3881070"<sip:3881070@titan-pub.sipnet5.com>;tag=1883244694
 Contact: <sip:3881070@5.5.5.7:38532;rinstance=61d3d1a2f486b404>
 Expires: 120
 Call-ID: 1672ee117a0ab621NGE1MjNkMTdhMDdjZjFiNDk2Y2RiYTE3YTM1OWMwY2M.
 Via: SIP/2.0/UDP 5.5.5.7:38532;branch=z9hG4bK-d87543-e825901776710471-1--d87543-;rport
 CSeq: 3 REGISTER

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

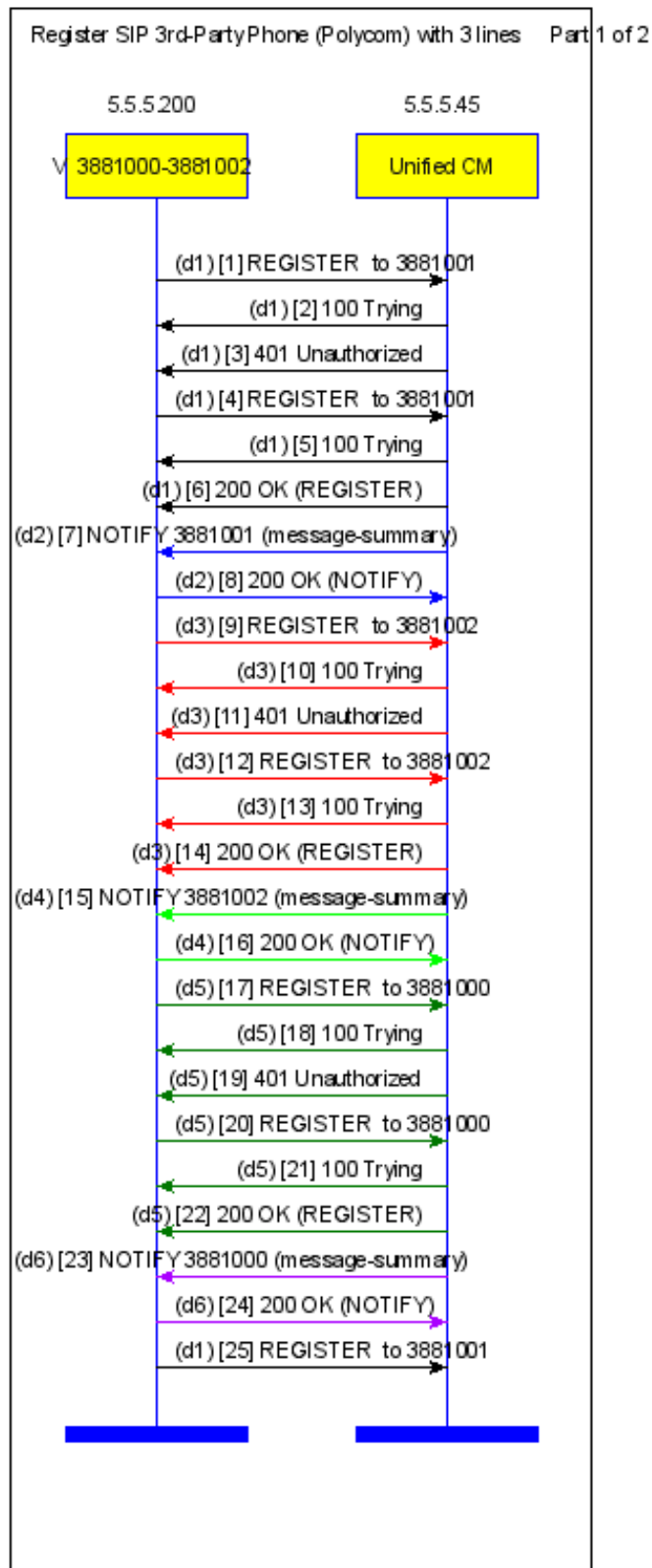
Scenario:

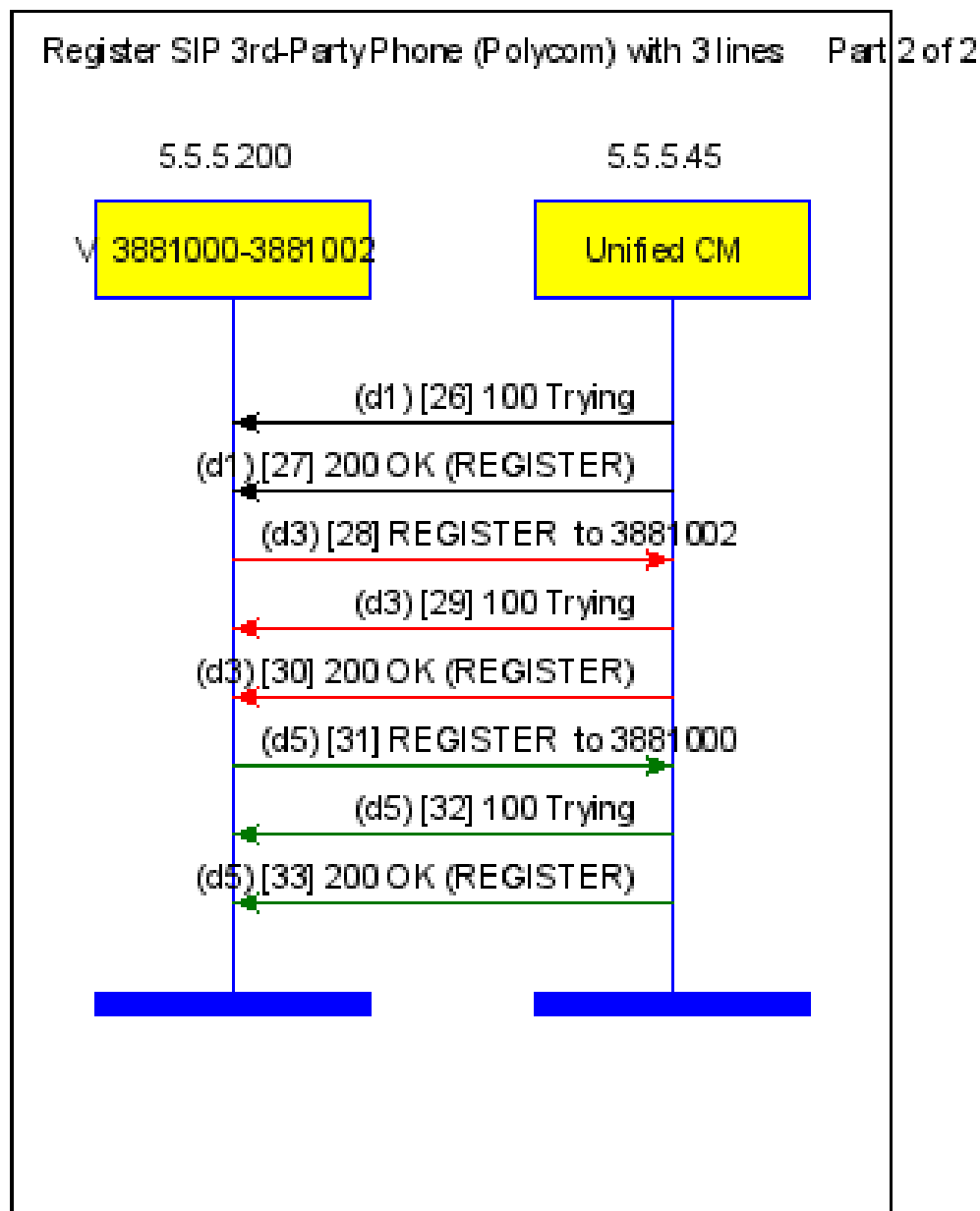
Lines 3881000-3881002 register with Unified CM

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=z9hG4bK5e89e86458961611
 From: "3881001" <sip:3881001@titan-pub>;tag=7C1A6D72-4E55B9A5
 To: <sip:3881001@titan-pub>
 CSeq: 1146 REGISTER
 Call-ID: 419f93fe-ba51178-7980c0eb@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: [\[prev\]](#) [\[next\]](#)

[2] SIP/2.0 100 Trying

Date: Fri, 20 Jun 2008 23:57:34 GMT
 From: "3881001" <sip:3881001@titan-pub>;tag=7C1A6D72-4E55B9A5
 Content-Length: 0
 To: <sip:3881001@titan-pub>
 Call-ID: 419f93fe-ba51178-7980c0eb@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK5e89e86458961611
 CSeq: 1146 REGISTER

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

[3] SIP/2.0 401 Unauthorized

Date: Fri, 20 Jun 2008 23:57:34 GMT
 From: "3881001" <sip:3881001@titan-pub>;tag=7C1A6D72-4E55B9A5
 WWW-Authenticate: Digest realm="ccmsipline", nonce="wEscsSwHkEdfhAZdCFvNedKtk8FUW0j", algorithm=MD5
 Content-Length: 0
 To: <sip:3881001@titan-pub>;tag=643757272
 Call-ID: 419f93fe-ba51178-7980c0eb@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK5e89e86458961611
 CSeq: 1146 REGISTER

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

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

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKd2ebff5e5C77D84B
 From: "3881001" <sip:3881001@titan-pub>;tag=7C1A6D72-4E55B9A5
 To: <sip:3881001@titan-pub>
 CSeq: 1147 REGISTER
 Call-ID: 419f93fe-ba51178-7980c0eb@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="wEscsSwHkEdfhAZdCFvNedKtk8FUW0j", uri="sip:titan-pub:5060", response="6793693ad41e7807ed6ad32735ad38c2", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

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

[5] SIP/2.0 100 Trying

Date: Fri, 20 Jun 2008 23:57:34 GMT
 From: "3881001" <sip:3881001@titan-pub>;tag=7C1A6D72-4E55B9A5
 Content-Length: 0
 To: <sip:3881001@titan-pub>;tag=643757272
 Call-ID: 419f93fe-ba51178-7980c0eb@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKd2ebff5e5C77D84B
 CSeq: 1147 REGISTER

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

[6] SIP/2.0 200 OK

Date: Fri, 20 Jun 2008 23:57:34 GMT
 From: "3881001" <sip:3881001@titan-pub>;tag=7C1A6D72-4E55B9A5
 Supported: X-cisco-sis-3.0.0
 Content-Length: 0
 To: <sip:3881001@titan-pub>;tag=643757272
 Contact: <sip:3881001@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER";x-cisco-newreg
 Expires: 120
 Call-ID: 419f93fe-ba51178-7980c0eb@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKd2ebff5e5C77D84B
 CSeq: 1147 REGISTER

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

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

Date: Fri, 20 Jun 2008 23:57:34 GMT
 From: <sip:3881001@5.5.5.45>;tag=1946211672
 Event: message-summary

Content-Length: 22
 User-Agent: Cisco-CUCM7.0
 To: <sip:3881001@5.5.5.200>
 Contact: <sip:3881001@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Call-ID: a588b080-85c143ee-c6e1-2d050505@5.5.5.45
 Subscription-State: active
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe6d6e43bbbe
 CSeq: 101 NOTIFY
 Max-Forwards: 70

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=z9hG4bKe6d6e43bbbe
 From: <sip:3881001@5.5.5.45>;tag=1946211672
 To: <sip:3881001@5.5.5.200>;tag=3CCAA905-D6C454D8
 CSeq: 101 NOTIFY
 Call-ID: a588b080-85c143ee-c6e1-2d050505@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: [\[prev\]](#)[\[next\]](#)

[9] REGISTER sip:titan-pub:5060;transport=udp SIP/2.0

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKa3c288d2B5F2283F
 From: "3881002" <sip:3881002@titan-pub>;tag=8A0DB48A-32DDADBD
 To: <sip:3881002@titan-pub>
 CSeq: 1147 REGISTER
 Call-ID: cec7cf16-97da1290-b9af2f03@5.5.5.200
 Contact: <sip:3881002@5.5.5.200;transport=udp>;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

Date: Fri, 20 Jun 2008 23:57:50 GMT
 From: "3881002" <sip:3881002@titan-pub>;tag=8A0DB48A-32DDADBD
 Content-Length: 0
 To: <sip:3881002@titan-pub>
 Call-ID: cec7cf16-97da1290-b9af2f03@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKa3c288d2B5F2283F
 CSeq: 1147 REGISTER

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

[11] SIP/2.0 401 Unauthorized

Date: Fri, 20 Jun 2008 23:57:50 GMT
 From: "3881002" <sip:3881002@titan-pub>;tag=8A0DB48A-32DDADBD
 WWW-Authenticate: Digest realm="ccmsipline", nonce="wEscsSwhGkEdfhAZdCFvNedKtk8FUW0j", algorithm=MD5
 Content-Length: 0
 To: <sip:3881002@titan-pub>;tag=1082085233
 Call-ID: cec7cf16-97da1290-b9af2f03@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKa3c288d2B5F2283F
 CSeq: 1147 REGISTER

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

[12] REGISTER sip:titan-pub:5060;transport=udp SIP/2.0

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKe77e3b4cA539F5F9
 From: "3881002" <sip:3881002@titan-pub>;tag=8A0DB48A-32DDADBD
 To: <sip:3881002@titan-pub>
 CSeq: 1148 REGISTER
 Call-ID: cec7cf16-97da1290-b9af2f03@5.5.5.200
 Contact: <sip:3881002@5.5.5.200;transport=udp>;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="wEscsSwhGkEdfhAZdCFvNedKtk8FUW0j", uri="sip:titan-pub:5060;transport=udp", response="e610cef719be14543c5e1ced32a9cad9", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

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

[13] SIP/2.0 100 Trying

Date: Fri, 20 Jun 2008 23:57:50 GMT
 From: "3881002" <sip:3881002@titan-pub>;tag=8A0DB48A-32DDADBD

Content-Length: 0
 To: <sip:3881002@titan-pub>;tag=1082085233
 Call-ID: cec7cf16-97da1290-b9af2f03@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKe77e3b4cA539F5F9
 CSeq: 1148 REGISTER

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

[14] SIP/2.0 200 OK

Date: Fri, 20 Jun 2008 23:57:50 GMT
 From: "3881002" <sip:3881002@titan-pub>;tag=8A0DB48A-32DDADBD
 Supported: X-cisco-sis-3.0.0
 Content-Length: 0
 To: <sip:3881002@titan-pub>;tag=1082085233
 Contact: <sip:3881002@5.5.5.200;transport=udp>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER";x-cisco-newline
 Expires: 120
 Call-ID: cec7cf16-97da1290-b9af2f03@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKe77e3b4cA539F5F9
 CSeq: 1148 REGISTER

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

[15] NOTIFY sip:3881002@5.5.5.200;transport=udp SIP/2.0

Date: Fri, 20 Jun 2008 23:57:50 GMT
 From: <sip:3881002@5.5.5.45>;tag=1485881193
 Event: message-summary
 Content-Length: 22
 User-Agent: Cisco-CUCM7.0
 To: <sip:3881002@5.5.5.200>
 Contact: <sip:3881002@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Call-ID: af121880-85c143fe-c6e3-2d050505@5.5.5.45
 Subscription-State: active
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe6e2335f839
 CSeq: 101 NOTIFY
 Max-Forwards: 70

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=z9hG4bKe6e2335f839
 From: <sip:3881002@5.5.5.45>;tag=1485881193
 To: <sip:3881002@5.5.5.200>;tag=42D5B233-BD770C46
 CSeq: 101 NOTIFY
 Call-ID: af121880-85c143fe-c6e3-2d050505@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: [\[prev\]](#)[\[next\]](#)

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

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK29149bc0DBE0FCED
 From: "3881000" <sip:3881000@titan-pub>;tag=874E8975-AF7CC748
 To: <sip:3881000@titan-pub>
 CSeq: 1145 REGISTER
 Call-ID: 82a6be81-9e7e9cbb-48a2d5ce@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: [\[prev\]](#)[\[next\]](#)

[18] SIP/2.0 100 Trying

Date: Fri, 20 Jun 2008 23:57:52 GMT
 From: "3881000" <sip:3881000@titan-pub>;tag=874E8975-AF7CC748
 Content-Length: 0
 To: <sip:3881000@titan-pub>
 Call-ID: 82a6be81-9e7e9cbb-48a2d5ce@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK29149bc0DBE0FCED
 CSeq: 1145 REGISTER

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

[19] SIP/2.0 401 Unauthorized

Date: Fri, 20 Jun 2008 23:57:52 GMT
 From: "3881000" <sip:3881000@titan-pub>;tag=874E8975-AF7CC748
 WWW-Authenticate: Digest realm="ccmsipline", nonce="wEscsSwHkEdfhAZdCFvNedKtk8FUW0j", algorithm=MD5
 Content-Length: 0

To: <sip:3881000@titan-pub>;tag=1773340285
 Call-ID: 82a6be81-9e7e9cbb-48a2d5ce@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK29149bc0DBE0FCED
 CSeq: 1145 REGISTER

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

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

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKfa689baC5F7627
 From: "3881000" <sip:3881000@titan-pub>;tag=874E8975-AF7CC748
 To: <sip:3881000@titan-pub>
 CSeq: 1146 REGISTER
 Call-ID: 82a6be81-9e7e9cbb-48a2d5ce@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="wEscsSwhGkEdfhAZdCFvNedKtk8FUW0j", uri="sip:titan-pub:5060", response="6793693ad41e7807ed6ad32735ad38c2", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

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

[21] SIP/2.0 100 Trying

Date: Fri, 20 Jun 2008 23:57:52 GMT
 From: "3881000" <sip:3881000@titan-pub>;tag=874E8975-AF7CC748
 Content-Length: 0
 To: <sip:3881000@titan-pub>;tag=1773340285
 Call-ID: 82a6be81-9e7e9cbb-48a2d5ce@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKfa689baC5F7627
 CSeq: 1146 REGISTER

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

[22] SIP/2.0 200 OK

Date: Fri, 20 Jun 2008 23:57:52 GMT
 From: "3881000" <sip:3881000@titan-pub>;tag=874E8975-AF7CC748
 Supported: X-cisco-sis-3.0.0
 Content-Length: 0
 To: <sip:3881000@titan-pub>;tag=1773340285
 Contact: <sip:3881000@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER";x-cisco-newline
 Expires: 120
 Call-ID: 82a6be81-9e7e9cbb-48a2d5ce@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKfa689baC5F7627
 CSeq: 1146 REGISTER

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

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

Date: Fri, 20 Jun 2008 23:57:52 GMT
 From: <sip:3881000@5.5.5.45>;tag=1930040815
 Event: message-summary
 Content-Length: 22
 User-Agent: Cisco-CUCM7.0
 To: <sip:3881000@5.5.5.200>
 Contact: <sip:3881000@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Call-ID: b0434580-85c14400-c6e5-2d050505@5.5.5.45
 Subscription-State: active
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe6f4f973ef2
 CSeq: 101 NOTIFY
 Max-Forwards: 70

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=z9hG4bKe6f4f973ef2
 From: <sip:3881000@5.5.5.45>;tag=1930040815
 To: <sip:3881000@5.5.5.200>;tag=793CBDE1-B2647634
 CSeq: 101 NOTIFY
 Call-ID: b0434580-85c14400-c6e5-2d050505@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: [\[prev\]](#)[\[next\]](#)

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

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKa86e012eA4C741B
 From: "3881001" <sip:3881001@titan-pub>;tag=7C1A6D72-4E55B9A5
 To: <sip:3881001@titan-pub>

CSeq: 1148 REGISTER
 Call-ID: 419f93fe-ba51178-7980c0eb@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="wEscsSwhGkEdfhAZdCFvNedKtk8FUW0j", uri="sip:titan-pub:5060", response="6793693ad41e7807ed6ad32735ad38c2", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

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

[26] SIP/2.0 100 Trying

Date: Fri, 20 Jun 2008 23:58:34 GMT
 From: "3881001" <sip:3881001@titan-pub>;tag=7C1A6D72-4E55B9A5
 Content-Length: 0
 To: <sip:3881001@titan-pub>
 Call-ID: 419f93fe-ba51178-7980c0eb@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKa86e012eA4C741B
 CSeq: 1148 REGISTER

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

[27] SIP/2.0 200 OK

Date: Fri, 20 Jun 2008 23:58:34 GMT
 From: "3881001" <sip:3881001@titan-pub>;tag=7C1A6D72-4E55B9A5
 Supported: X-cisco-sis-3.0.0
 Content-Length: 0
 To: <sip:3881001@titan-pub>;tag=654255154
 Contact: <sip:3881001@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 Expires: 120
 Call-ID: 419f93fe-ba51178-7980c0eb@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKa86e012eA4C741B
 CSeq: 1148 REGISTER

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

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

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK58cacia8A44A38D5
 From: "3881002" <sip:3881002@titan-pub>;tag=8A0DB48A-32DDADBD
 To: <sip:3881002@titan-pub>
 CSeq: 1149 REGISTER
 Call-ID: cec7cf16-97da1290-b9af2f03@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="wEscsSwhGkEdfhAZdCFvNedKtk8FUW0j", uri="sip:titan-pub:5060;transport=udp", response="e610cef719be14543c5e1ced32a9cad9", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

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

[29] SIP/2.0 100 Trying

Date: Fri, 20 Jun 2008 23:58:50 GMT
 From: "3881002" <sip:3881002@titan-pub>;tag=8A0DB48A-32DDADBD
 Content-Length: 0
 To: <sip:3881002@titan-pub>
 Call-ID: cec7cf16-97da1290-b9af2f03@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK58cacia8A44A38D5
 CSeq: 1149 REGISTER

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

[30] SIP/2.0 200 OK

Date: Fri, 20 Jun 2008 23:58:50 GMT
 From: "3881002" <sip:3881002@titan-pub>;tag=8A0DB48A-32DDADBD
 Supported: X-cisco-sis-3.0.0
 Content-Length: 0
 To: <sip:3881002@titan-pub>;tag=116643530
 Contact: <sip:3881002@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 Expires: 120
 Call-ID: cec7cf16-97da1290-b9af2f03@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bK58cacia8A44A38D5
 CSeq: 1149 REGISTER

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

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

Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKf46a72a262D9AC0F
 From: "3881000" <sip:3881000@titan-pub>;tag=874E8975-AF7CC748
 To: <sip:3881000@titan-pub>

CSeq: 1147 REGISTER
 Call-ID: 82a6be81-9e7e9cbb-48a2d5ce@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="wEscsSwhGkEdfhAZdCFvNedKtk8FUW0j", uri="sip:titan-pub:5060", response="6793693ad41e7807ed6ad32735ad38c2", algorithm=MD5
 Max-Forwards: 70
 Expires: 120
 Content-Length: 0

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

[32] SIP/2.0 100 Trying

Date: Fri, 20 Jun 2008 23:58:52 GMT
 From: "3881000" <sip:3881000@titan-pub>;tag=874E8975-AF7CC748
 Content-Length: 0
 To: <sip:3881000@titan-pub>
 Call-ID: 82a6be81-9e7e9cbb-48a2d5ce@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKf46a72a262D9AC0F
 CSeq: 1147 REGISTER

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

[33] SIP/2.0 200 OK

Date: Fri, 20 Jun 2008 23:58:52 GMT
 From: "3881000" <sip:3881000@titan-pub>;tag=874E8975-AF7CC748
 Supported: X-cisco-sis-3.0.0
 Content-Length: 0
 To: <sip:3881000@titan-pub>;tag=1971374009
 Contact: <sip:3881000@5.5.5.200>;methods="INVITE, ACK, BYE, CANCEL, OPTIONS, INFO, MESSAGE, SUBSCRIBE, NOTIFY, PRACK, UPDATE, REFER"
 Expires: 120
 Call-ID: 82a6be81-9e7e9cbb-48a2d5ce@5.5.5.200
 Via: SIP/2.0/UDP 5.5.5.200;branch=z9hG4bKf46a72a262D9AC0F
 CSeq: 1147 REGISTER

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

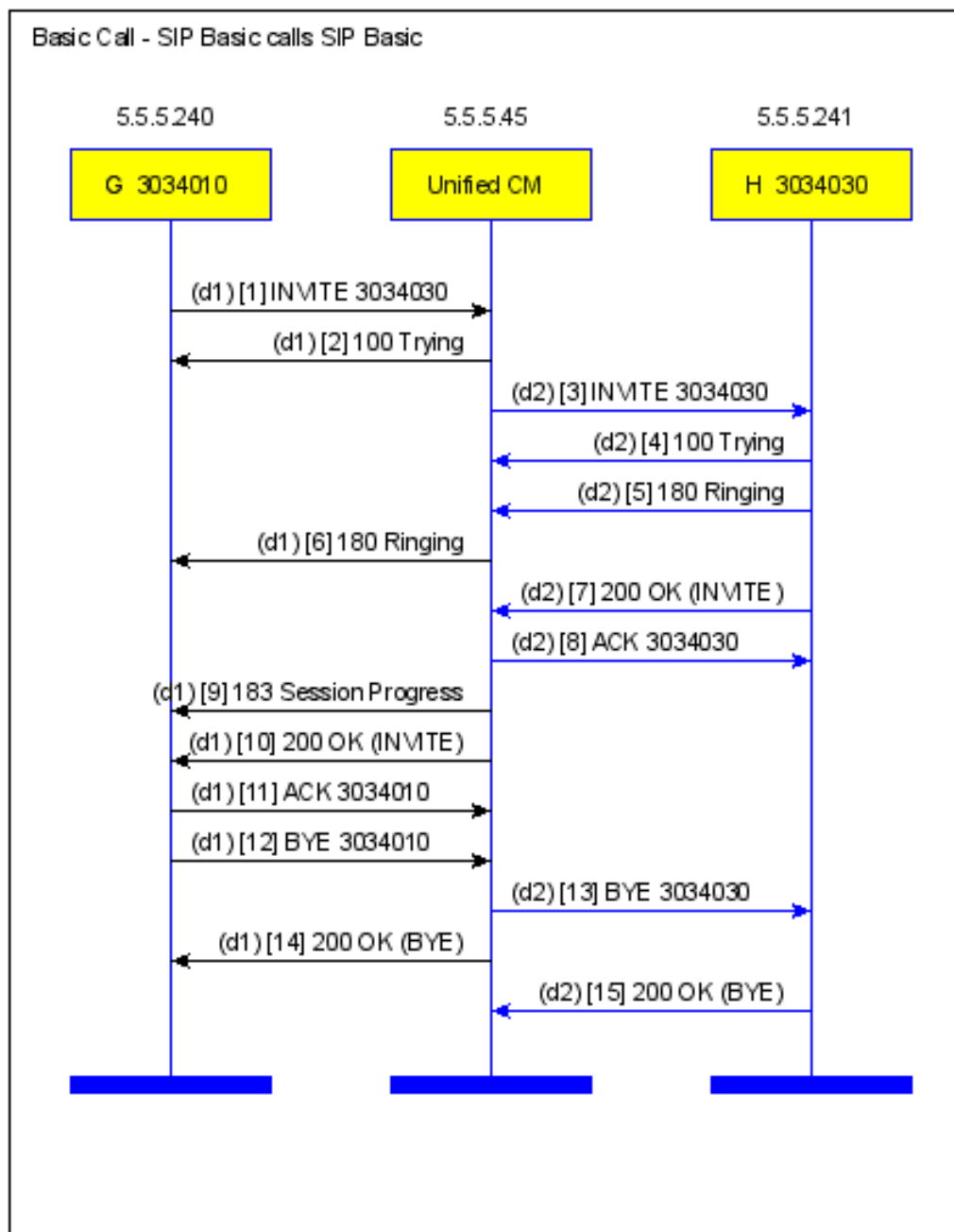
Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

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=z9hG4bK2f7f58d9
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063bb8fb28-4c44c97c
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-280e0e49-7d091010@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 22:11:12 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 15818 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 21560 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

Date: Mon, 30 Jun 2008 22:11:12 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063bb8fb28-4c44c97c
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-280e0e49-7d091010@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2f7f58d9
 CSeq: 101 INVITE

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

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

Date: Mon, 30 Jun 2008 22:11:12 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863975
 Allow-Events: presence
 Supported: timer, resource-priority, replaces
 Min-SE: 1800
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 71b24580-86915a00-a663-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6b812d39246
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6b812d39246
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863975
 To: <sip:3034030@5.5.5.241>
 Call-ID: 71b24580-86915a00-a663-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 22:11:11 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=z9hG4bK6b812d39246
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863975
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60009254c0fd9-1cf77866
 Call-ID: 71b24580-86915a00-a663-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 22:11:12 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

Date: Mon, 30 Jun 2008 22:11:12 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063bb8fb28-4c44c97c
 Allow-Events: presence
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863974
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-280e0e49-7d091010@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2f7f58d9
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6b812d39246
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863975
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60009254c0fd9-1cf77866
 Call-ID: 71b24580-86915a00-a663-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 22:11:14 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 21851 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 18442 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

Date: Mon, 30 Jun 2008 22:11:12 GMT
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863975
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d60009254c0fd9-1cf77866
 Content-Type: application/sdp
 Call-ID: 71b24580-86915a00-a663-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6b929cbb601
 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 5.5.5.240
 t=0 0
 m=audio 21560 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

Date: Mon, 30 Jun 2008 22:11:12 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063bb8fb28-4c44c97c
 Allow-Events: presence
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863974
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-280e0e49-7d091010@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2f7f58d9
 CSeq: 101 INVITE

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 18442 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

Date: Mon, 30 Jun 2008 22:11:12 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063bb8fb28-4c44c97c
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863974
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-280e0e49-7d091010@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2f7f58d9
 CSeq: 101 INVITE

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 18442 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 5.5.5.240:5060;branch=z9hG4bK40dc39ae
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063bb8fb28-4c44c97c
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863974
 Call-ID: 001a2f8d-f17f0004-280e0e49-7d091010@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 22:11:16 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK35d7eae5
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063bb8fb28-4c44c97c
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863974
 Call-ID: 001a2f8d-f17f0004-280e0e49-7d091010@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 22:11:27 GMT
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

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

[13] BYE sip:30340300@5.5.5.241:5060 SIP/2.0

Date: Mon, 30 Jun 2008 22:11:12 GMT

From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863975

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d60009254c0fd9-1cf77866

Call-ID: 71b24580-86915a00-a663-2d050505@5.5.5.45

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6ba36480252

CSeq: 102 BYE

Max-Forwards: 70

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

[14] SIP/2.0 200 OK

Date: Mon, 30 Jun 2008 22:11:27 GMT

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00063bb8fb28-4c44c97c

Content-Length: 0

To: <sip:30340300@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863974

Call-ID: 001a2f8d-f17f0004-280e0e49-7d091010@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK35d7eae5

CSeq: 102 BYE

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

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6ba36480252

From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863975

To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d60009254c0fd9-1cf77866

Call-ID: 71b24580-86915a00-a663-2d050505@5.5.5.45

Date: Mon, 30 Jun 2008 22:11:26 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

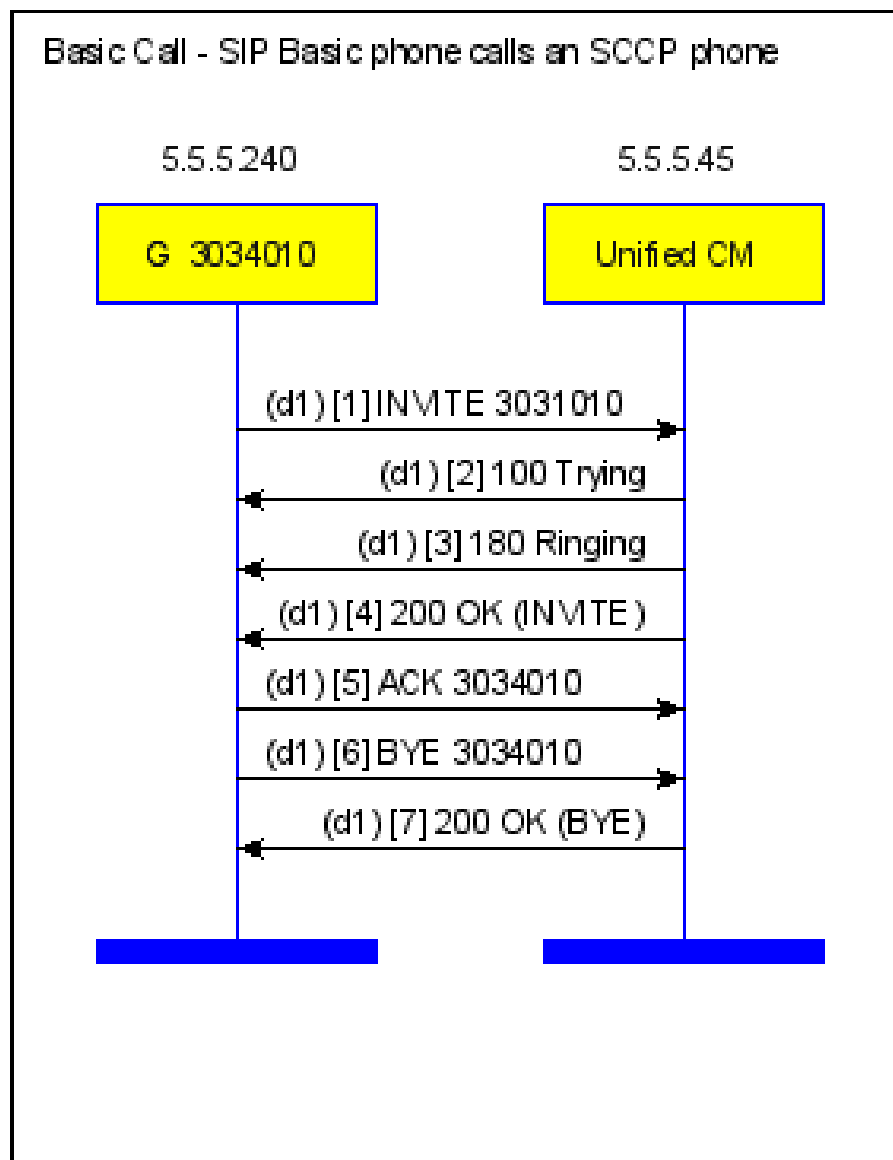
Phone = I, Line = 3031010, IP = 5.5.5.217, Model = SCCP

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=z9hG4bK7603c3a1
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00064a72eb90-1a8b3c6c
 To: <sip:3031010@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-65eefbb1-0dc6f974@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 15:38:52 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 2116 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 30802 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

Date: Wed, 18 Jun 2008 15:38:52 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00064a72eb90-1a8b3c6c
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3031010@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-65eefbb1-0dc6f974@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7603c3a1
 CSeq: 101 INVITE

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

[3] SIP/2.0 180 Ringing

Date: Wed, 18 Jun 2008 15:38:52 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00064a72eb90-1a8b3c6c
 Allow-Events: presence
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003250
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-65eefbb1-0dc6f974@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7603c3a1
 CSeq: 101 INVITE

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

[4] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 15:38:52 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00064a72eb90-1a8b3c6c
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003250
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-65eefbb1-0dc6f974@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7603c3a1
 CSeq: 101 INVITE

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 27356 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:3034010@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK64881577
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00064a72eb90-1a8b3c6c
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003250
Call-ID: 001a2f8d-f17f0004-65eefbb1-0dc6f974@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 15:38:56 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:3034010@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK16fe46ca
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00064a72eb90-1a8b3c6c
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003250
Call-ID: 001a2f8d-f17f0004-65eefbb1-0dc6f974@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 15:39:13 GMT
CSeq: 102 BYE
User-Agent: Cisco-CP7960G/7.5
Content-Length: 0

```

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

[7] SIP/2.0 200 OK

```

Date: Wed, 18 Jun 2008 15:39:13 GMT
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00064a72eb90-1a8b3c6c
Content-Length: 0
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003250
Call-ID: 001a2f8d-f17f0004-65eefbb1-0dc6f974@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK16fe46ca
CSeq: 102 BYE

```

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

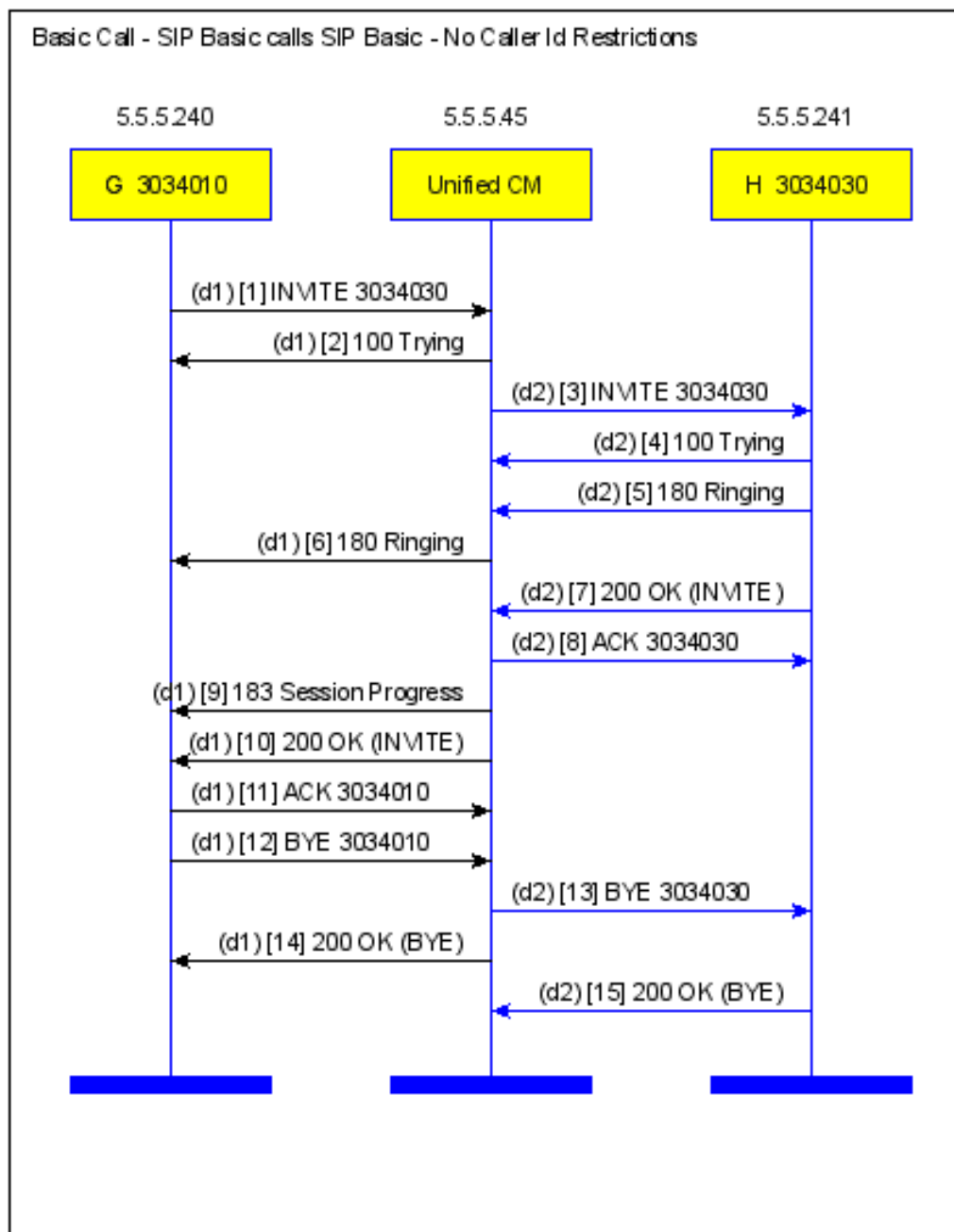
Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

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=z9hG4bK49046b08
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00111fcaadf4-0bfe2c57
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-61ba87a5-1bbe8655@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 17:18:02 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 11280 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 23876 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

Date: Wed, 18 Jun 2008 17:18:02 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00111fcaadf4-0bfe2c57
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-61ba87a5-1bbe8655@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK49046b08
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 17:18:02 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003257
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 80484680-8591434a-bd68-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc898cb8e78
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc898cb8e78
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003257
 To: <sip:3034030@5.5.5.241>
 Call-ID: 80484680-8591434a-bd68-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 17:18:02 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=z9hG4bKc898cb8e78
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003257
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600131f30da9a-465a9acc
 Call-ID: 80484680-8591434a-bd68-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 17:18:02 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

Date: Wed, 18 Jun 2008 17:18:02 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00111fcaadf4-0bfe2c57
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003256
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-61ba87a5-1bbe8655@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK49046b08
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc898cb8e78
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003257
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600131f30da9a-465a9acc
 Call-ID: 80484680-8591434a-bd68-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 17:18:03 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 12692 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 23652 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

Date: Wed, 18 Jun 2008 17:18:02 GMT
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003257
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600131f30da9a-465a9acc
 Content-Type: application/sdp
 Call-ID: 80484680-8591434a-bd68-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc8a64a196fe
 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 5.5.5.240
 t=0 0
 m=audio 23876 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

Date: Wed, 18 Jun 2008 17:18:02 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00111fcaadf4-0bfe2c57
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003256
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-61ba87a5-1bbe8655@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK49046b08
 CSeq: 101 INVITE

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 23652 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

Date: Wed, 18 Jun 2008 17:18:02 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00111fcaadf4-0bfe2c57
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003256
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-61ba87a5-1bbe8655@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK49046b08
 CSeq: 101 INVITE

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 23652 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 5.5.5.240:5060;branch=z9hG4bK3e3c7e24
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00111fcaadf4-0bfe2c57
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003256
 Call-ID: 001a2f8d-f17f0004-61ba87a5-1bbe8655@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 17:18:04 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK335ed0c3
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00111fcaadf4-0bfe2c57
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003256
 Call-ID: 001a2f8d-f17f0004-61ba87a5-1bbe8655@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 17:18:09 GMT
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

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

[13] BYE sip:30340300@5.5.5.241:5060 SIP/2.0

Date: Wed, 18 Jun 2008 17:18:02 GMT

From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>; tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003257

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: <sip:30340300@5.5.5.241>; tag=001a2fcb77d600131f30da9a-465a9acc

Call-ID: 80484680-8591434a-bd68-2d050505@5.5.5.45

Via: SIP/2.0/UDP 5.5.5.45:5060; branch=z9hG4bKc8bd738643

CSeq: 102 BYE

Max-Forwards: 70

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

[14] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 17:18:08 GMT

From: "3034010" <sip:3034010@5.5.5.45>; tag=001a2f8df17f00111fcaadf4-0bfe2c57

Content-Length: 0

To: <sip:30340300@5.5.5.45>; tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003256

Call-ID: 001a2f8d-f17f0004-61ba87a5-1bbe8655@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.240:5060; branch=z9hG4bK335ed0c3

CSeq: 102 BYE

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

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060; branch=z9hG4bKc8bd738643

From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>; tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003257

To: <sip:30340300@5.5.5.241>; tag=001a2fcb77d600131f30da9a-465a9acc

Call-ID: 80484680-8591434a-bd68-2d050505@5.5.5.45

Date: Wed, 18 Jun 2008 17:18:08 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

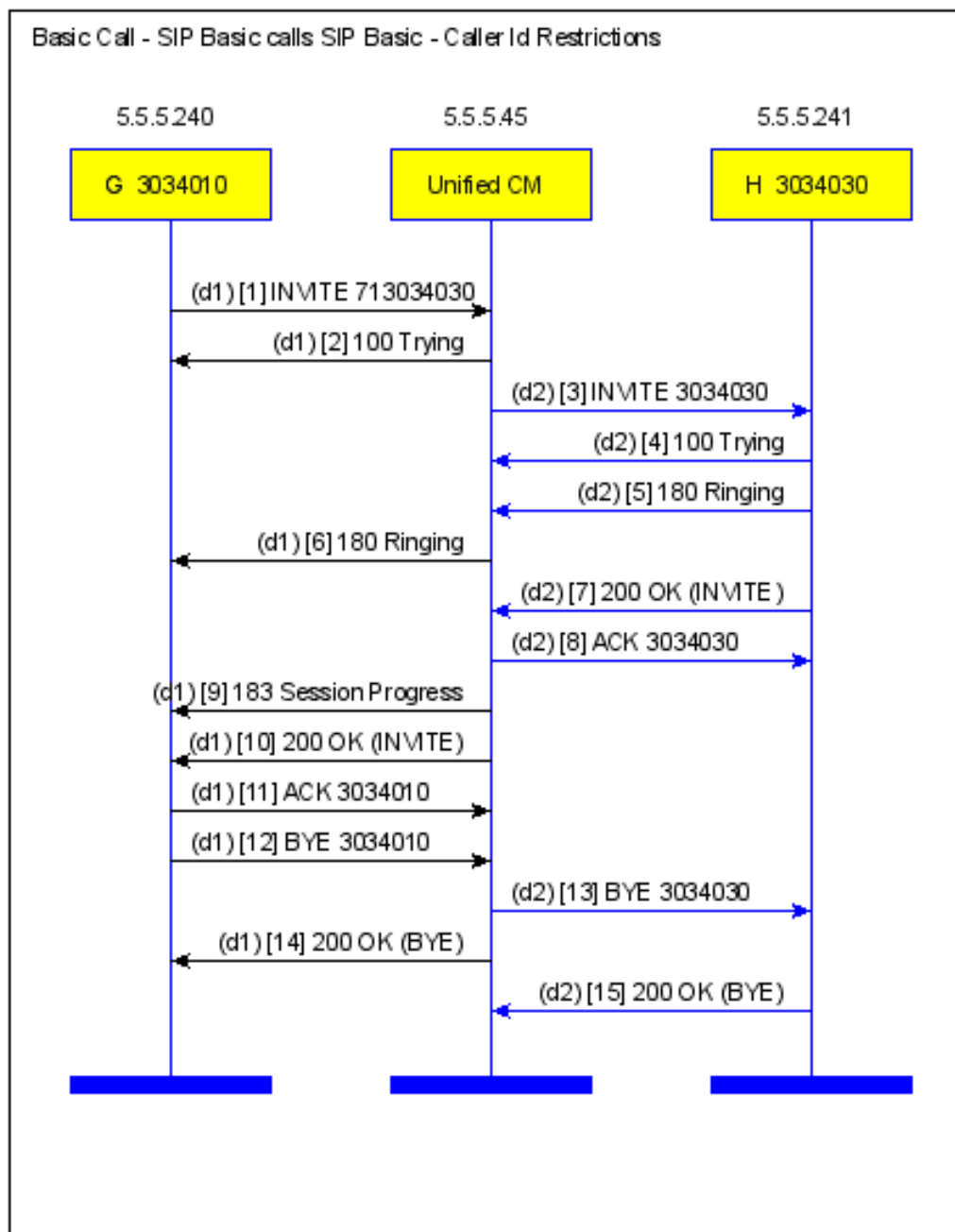
Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

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=z9hG4bK35c61607
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00281206ea35-628e7fdc
 To: <sip:713034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0005-2f355da6-31d3c2a9@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 16:49:06 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 10487 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 29154 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

Date: Wed, 18 Jun 2008 16:49:06 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00281206ea35-628e7fdc
 Allow-Events: presence
 Content-Length: 0
 To: <sip:713034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0005-2f355da6-31d3c2a9@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK35c61607
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 16:49:06 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003255
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=full
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 758bb280-85913c82-bd30-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc7e1a8cd102
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc7e1a8cd102
 From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003255
 To: <sip:3034030@5.5.5.241>
 Call-ID: 758bb280-85913c82-bd30-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 16:49:06 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=z9hG4bKc7e1a8cd102
 From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003255
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6002c0be4ba8d-49772889
 Call-ID: 758bb280-85913c82-bd30-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 16:49:06 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

Date: Wed, 18 Jun 2008 16:49:06 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00281206ea35-628e7fdc
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:713034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003254
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0005-2f355da6-31d3c2a9@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK35c61607
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc7e1a8cd102
 From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003255
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6002c0be4ba8d-49772889
 Call-ID: 758bb280-85913c82-bd30-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 16:49:11 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 28447 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 26730 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

Date: Wed, 18 Jun 2008 16:49:06 GMT
 From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003255
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6002c0be4ba8d-49772889
 Content-Type: application/sdp
 Call-ID: 758bb280-85913c82-bd30-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc7f3dc12e71
 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 5.5.5.240
 t=0 0
 m=audio 29154 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

Date: Wed, 18 Jun 2008 16:49:06 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00281206ea35-628e7fdc
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:713034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003254
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0005-2f355da6-31d3c2a9@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK35c61607
 CSeq: 101 INVITE

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 26730 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

Date: Wed, 18 Jun 2008 16:49:06 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00281206ea35-628e7fdc
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:713034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003254
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0005-2f355da6-31d3c2a9@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK35c61607
 CSeq: 101 INVITE

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 26730 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 5.5.5.240:5060;branch=z9hG4bK471eac5d
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00281206ea35-628e7fdc
 To: <sip:713034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003254
 Call-ID: 001a2f8d-f17f0005-2f355da6-31d3c2a9@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 16:49:11 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3a20df6a
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00281206ea35-628e7fdc
 To: <sip:713034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003254
 Call-ID: 001a2f8d-f17f0005-2f355da6-31d3c2a9@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 16:49:15 GMT
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

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

[13] BYE sip:30340300@5.5.5.241:5060 SIP/2.0

Date: Wed, 18 Jun 2008 16:49:06 GMT

From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003255

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d6002c0be4ba8d-49772889

Call-ID: 758bb280-85913c82-bd30-2d050505@5.5.5.45

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc807dfc144d

CSeq: 102 BYE

Max-Forwards: 70

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

[14] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 16:49:16 GMT

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00281206ea35-628e7fdc

Content-Length: 0

To: <sip:7130340300@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003254

Call-ID: 001a2f8d-f17f0005-2f355da6-31d3c2a9@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3a20df6a

CSeq: 102 BYE

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

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc807dfc144d

From: "Anonymous" <sip:anonymous@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003255

To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d6002c0be4ba8d-49772889

Call-ID: 758bb280-85913c82-bd30-2d050505@5.5.5.45

Date: Wed, 18 Jun 2008 16:49:15 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

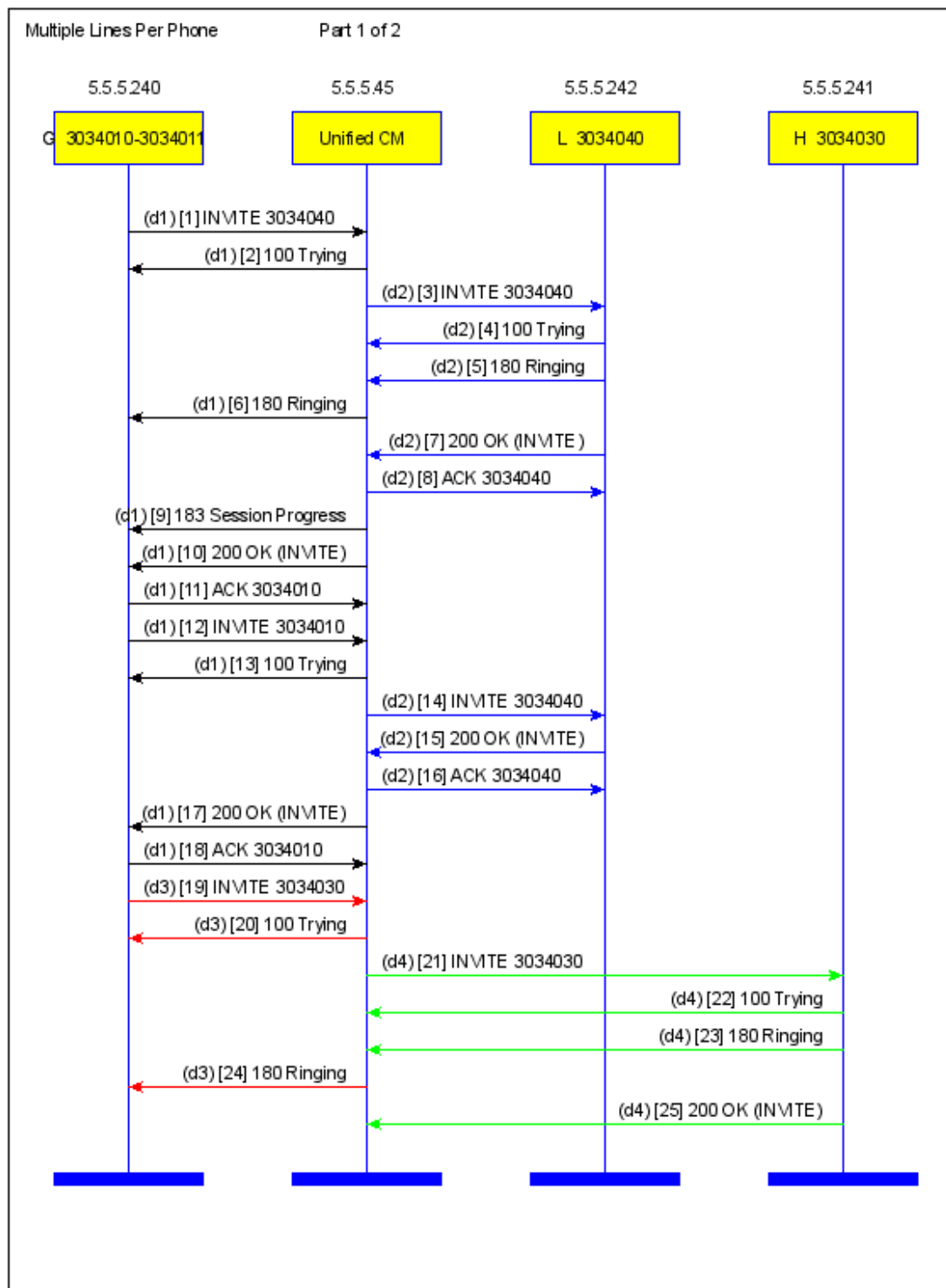
3034011 calls 3034030

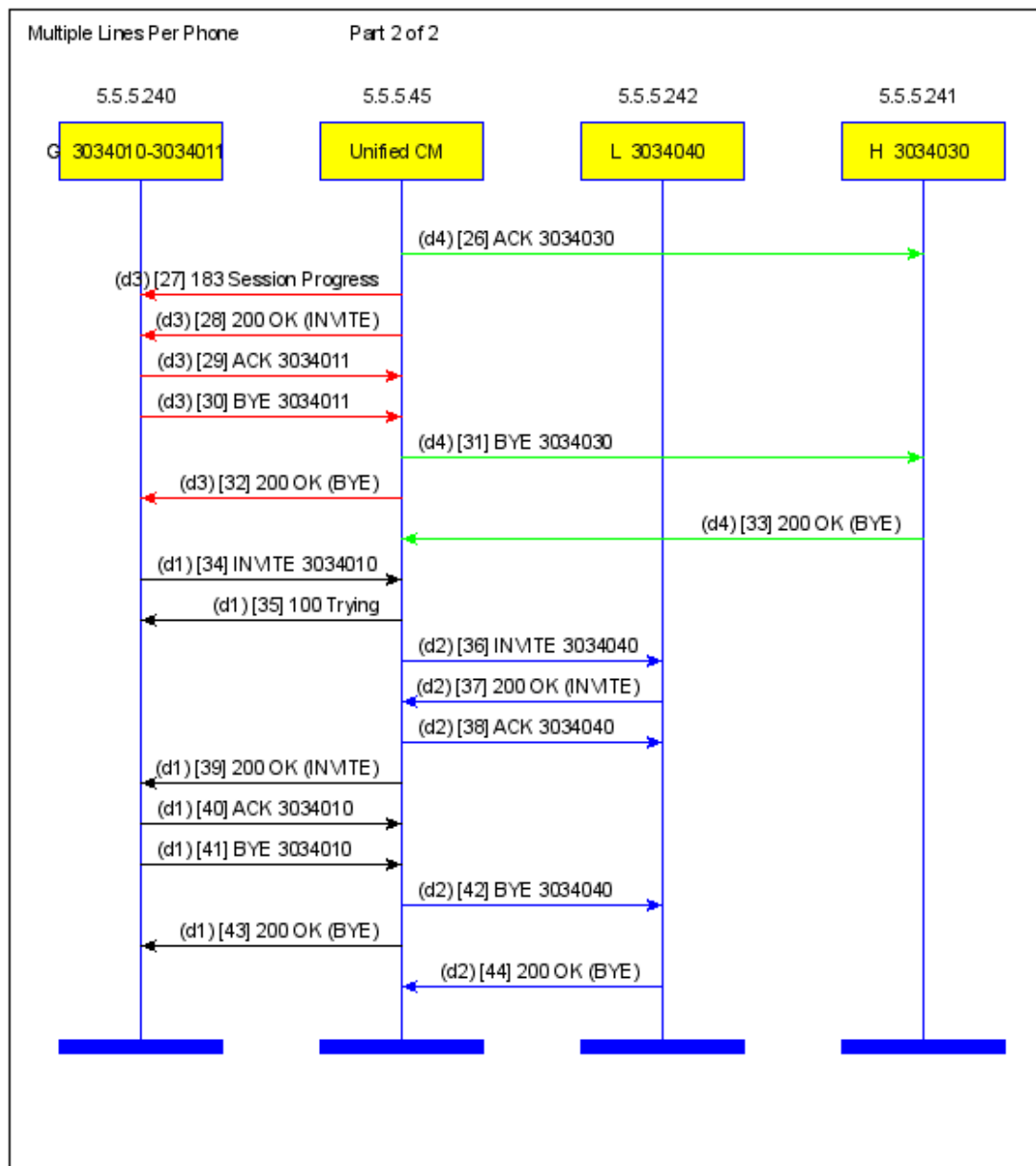
3034030 answers

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=z9hG4bK28d14503
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:49:21 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 10974 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 29048 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

Date: Tue, 17 Jun 2008 20:49:21 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK28d14503
 CSeq: 101 INVITE

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

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

Date: Tue, 17 Jun 2008 20:49:21 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc607470603b
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc607470603b
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
 To: <sip:3034040@5.5.5.242>
 Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:49:21 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
 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=z9hG4bKc607470603b
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000603ec1a8b-1b2b2070
 Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:49:21 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
 Content-Length: 0

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

[6] SIP/2.0 180 Ringing

Date: Tue, 17 Jun 2008 20:49:21 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK28d14503
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc607470603b
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000603ec1a8b-1b2b2070
 Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:49:28 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 22352 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 29560 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

Date: Tue, 17 Jun 2008 20:49:21 GMT
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000603ec1a8b-1b2b2070
 Content-Type: application/sdp
 Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc616beeea6c
 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 5.5.5.240
 t=0 0
 m=audio 29048 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

Date: Tue, 17 Jun 2008 20:49:21 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK28d14503
 CSeq: 101 INVITE

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 29560 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

Date: Tue, 17 Jun 2008 20:49:21 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK28d14503
 CSeq: 101 INVITE

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 29560 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 5.5.5.240:5060;branch=z9hG4bK1af862e7
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:49:29 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK745dea70
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:49:37 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 10974 1 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 29048 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

Date: Tue, 17 Jun 2008 20:49:37 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK745dea70
 CSeq: 102 INVITE

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

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

Date: Tue, 17 Jun 2008 20:49:37 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 302
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000603ec1a8b-1b2b2070
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc625f20f27c
 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 5.5.5.240
 t=0 0
 m=audio 29048 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=fmtp:0
 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=z9hG4bKc625f20f27c
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000603ec1a8b-1b2b2070
 Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:49:37 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: 199
 Content-Type: application/sdp

Content-Disposition: session;handling=optional

v=0
o=Cisco-SIPUA 22352 1 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 29560 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=recvnly

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

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

Date: Tue, 17 Jun 2008 20:49:37 GMT
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
Allow-Events: presence
Content-Length: 0
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000603ec1a8b-1b2b2070
Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc637b17cdb5
CSeq: 102 ACK
Max-Forwards: 70

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

[17] SIP/2.0 200 OK

Date: Tue, 17 Jun 2008 20:49:37 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 217
To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK745dea70
CSeq: 102 INVITE

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 29560 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: [\[prev\]](#)[\[next\]](#)

[18] ACK sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1a86187a
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
Max-Forwards: 70
Date: Tue, 17 Jun 2008 20:49:37 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=z9hG4bK44dc0c44
From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007029b2b3b-6ea912c7
To: <sip:3034030@5.5.5.45>
Call-ID: 001a2f8d-f17f0005-3cd65254-544b8b69@5.5.5.240
Max-Forwards: 70
Date: Tue, 17 Jun 2008 20:49:53 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: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 12131 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 29052 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

Date: Tue, 17 Jun 2008 20:49:53 GMT
 From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007029b2b3b-6ea912c7
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0005-3cd65254-544b8b69@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK44dc0c44
 CSeq: 101 INVITE

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

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

Date: Tue, 17 Jun 2008 20:49:53 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003245
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034011" <sip:3034011@5.5.5.45;x-cisco-callback-number=3034011>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: ee373400-85812371-b7d0-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc645aa3e4
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[22] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc645aa3e4
 From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003245
 To: <sip:3034030@5.5.5.241>
 Call-ID: ee373400-85812371-b7d0-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:49:52 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=z9hG4bKc645aa3e4
 From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003245
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600086d5af3d8-751abac0
 Call-ID: ee373400-85812371-b7d0-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:49:52 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

Date: Tue, 17 Jun 2008 20:49:53 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007029b2b3b-6ea912c7
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003244
 Contact: <sip:3034011@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0005-3cd65254-544b8b69@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK44dc0c44
 CSeq: 101 INVITE

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

[25] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc645aa3e4
 From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003245
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600086d5af3d8-751abac0
 Call-ID: ee373400-85812371-b7d0-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:49:55 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 3444 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 18762 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

Date: Tue, 17 Jun 2008 20:49:53 GMT
 From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003245
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600086d5af3d8-751abac0
 Content-Type: application/sdp
 Call-ID: ee373400-85812371-b7d0-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc6543c7153a
 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 5.5.5.240
 t=0 0
 m=audio 29052 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

Date: Tue, 17 Jun 2008 20:49:53 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007029b2b3b-6ea912c7
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003244
 Contact: <sip:3034011@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0005-3cd65254-544b8b69@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK44dc0c44
CSeq: 101 INVITE

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 18762 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

Date: Tue, 17 Jun 2008 20:49:53 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007029b2b3b-6ea912c7
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003244
Contact: <sip:3034011@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0005-3cd65254-544b8b69@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK44dc0c44
CSeq: 101 INVITE

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 18762 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:3034011@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK22c2c6b5
From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007029b2b3b-6ea912c7
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003244
Call-ID: 001a2f8d-f17f0005-3cd65254-544b8b69@5.5.5.240
Max-Forwards: 70
Date: Tue, 17 Jun 2008 20:49:56 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:3034011@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7151447a
From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007029b2b3b-6ea912c7
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003244
Call-ID: 001a2f8d-f17f0005-3cd65254-544b8b69@5.5.5.240
Max-Forwards: 70
Date: Tue, 17 Jun 2008 20:50:08 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

Date: Tue, 17 Jun 2008 20:49:53 GMT
From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003245
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600086d5af3d8-751abac0
Call-ID: ee373400-85812371-b7d0-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc666ce94ea9
CSeq: 102 BYE
Max-Forwards: 70

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

[32] SIP/2.0 200 OK

Date: Tue, 17 Jun 2008 20:50:07 GMT
 From: "3034011" <sip:3034011@5.5.5.45>;tag=001a2f8df17f0007029b2b3b-6ea912c7
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003244
 Call-ID: 001a2f8d-f17f0005-3cd65254-544b8b69@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7151447a
 CSeq: 102 BYE

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

[33] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc666ce94ea9
 From: "SIP Basic 3034011" <sip:3034011@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003245
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600086d5af3d8-751abac0
 Call-ID: ee373400-85812371-b7d0-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:50:07 GMT
 CSeq: 102 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 5.5.5.240:5060;branch=z9hG4bK7af730e9
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:50:12 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 10974 2 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 29048 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

Date: Tue, 17 Jun 2008 20:50:12 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7af730e9
 CSeq: 103 INVITE

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

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

Date: Tue, 17 Jun 2008 20:50:12 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 290
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000603ec1a8b-1b2b2070
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc6734713bb6
 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 5.5.5.240
t=0 0
m=audio 29048 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=fmtp:0
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=z9hG4bKc6734713bb6
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000603ec1a8b-1b2b2070
Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
Date: Tue, 17 Jun 2008 20:50:11 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: 199
Content-Type: application/sdp
Content-Disposition: session;handling=optional

```

```

v=0
o=Cisco-SIPUA 22352 2 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 29560 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

```

Date: Tue, 17 Jun 2008 20:50:12 GMT
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
Allow-Events: presence
Content-Length: 0
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000603ec1a8b-1b2b2070
Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc681048d7b8
CSeq: 103 ACK
Max-Forwards: 70

```

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

[39] SIP/2.0 200 OK

```

Date: Tue, 17 Jun 2008 20:50:12 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7af730e9
CSeq: 103 INVITE

```

```

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 29560 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2973712f
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:50:12 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK40935123
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:50:21 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

Date: Tue, 17 Jun 2008 20:50:12 GMT
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000603ec1a8b-1b2b2070
 Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc692cd9f694
 CSeq: 104 BYE
 Max-Forwards: 70

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

[43] SIP/2.0 200 OK

Date: Tue, 17 Jun 2008 20:50:21 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00060eb37c35-48764da9
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003242
 Call-ID: 001a2f8d-f17f0004-2172a31e-313bfe3d@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK40935123
 CSeq: 104 BYE

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

[44] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc692cd9f694
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003243
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000603ec1a8b-1b2b2070
 Call-ID: db246400-85812351-b7ce-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:50:20 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

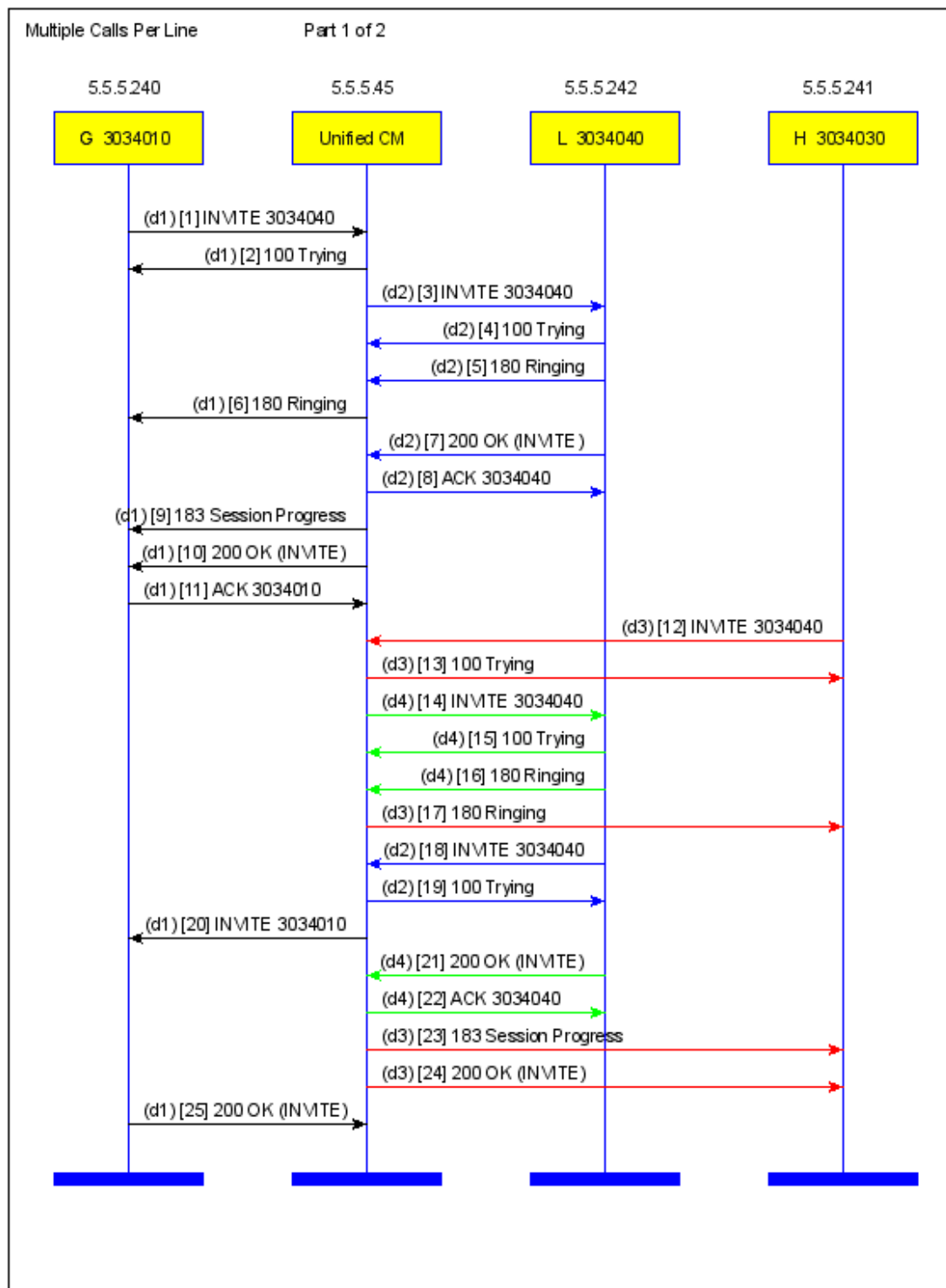
3034030 calls 3034040

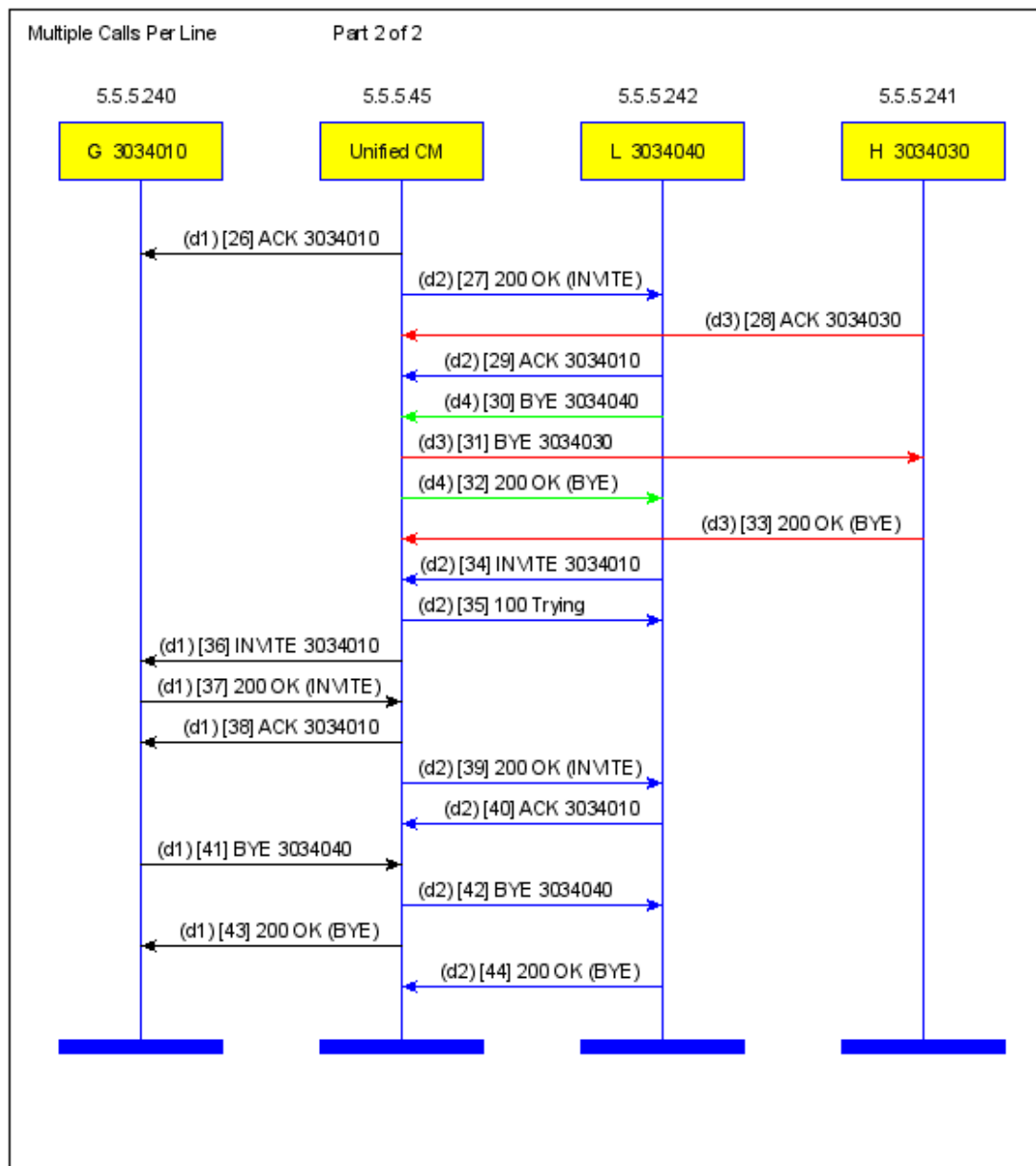
3034040 answers

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=z9hG4bK28e070f9
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:40:33 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 26655 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 19030 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

Date: Tue, 17 Jun 2008 20:40:33 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK28e070f9
 CSeq: 101 INVITE

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

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

Date: Tue, 17 Jun 2008 20:40:33 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc4b63964270
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc4b63964270
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 To: <sip:3034040@5.5.5.242>
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:40:33 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: [\[prev\]](#)[\[next\]](#)

[5] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc4b63964270
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:40:33 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: [\[prev\]](#)[\[next\]](#)

[6] SIP/2.0 180 Ringing

Date: Tue, 17 Jun 2008 20:40:33 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK28e070f9
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc4b63964270
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:40:35 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 26727 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 20798 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

Date: Tue, 17 Jun 2008 20:40:33 GMT
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 Content-Type: application/sdp
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc4c477bd28d
 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 5.5.5.240
 t=0 0
 m=audio 19030 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

Date: Tue, 17 Jun 2008 20:40:33 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK28e070f9
 CSeq: 101 INVITE

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 20798 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

Date: Tue, 17 Jun 2008 20:40:33 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK28e070f9
 CSeq: 101 INVITE

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 20798 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 5.5.5.240:5060;branch=z9hG4bK5cd21900
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
 Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:40:36 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=z9hG4bK0158e559
 From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000831ffff422-755cb266
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2fcb-77d60006-2f4df9de-01079292@5.5.5.241
 Max-Forwards: 70
 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: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 8328 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 26120 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

Date: Tue, 17 Jun 2008 20:40:45 GMT
 From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000831fff422-755cb226
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2fcb-77d60006-2f4df9de-01079292@5.5.5.241
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK0158e559
 CSeq: 101 INVITE

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

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

Date: Tue, 17 Jun 2008 20:40:45 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003241
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45;x-cisco-callback-number=3034030>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Call-ID: a7950a00-8581214d-b7ab-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc4d54a076ec
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[15] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc4d54a076ec
 From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003241
 To: <sip:3034040@5.5.5.242>
 Call-ID: a7950a00-8581214d-b7ab-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:40:45 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: [\[prev\]](#) [\[next\]](#)

[16] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc4d54a076ec
 From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003241
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00074caf2f27-56f84249
 Call-ID: a7950a00-8581214d-b7ab-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:40:45 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: [\[prev\]](#)[\[next\]](#)

[17] SIP/2.0 180 Ringing

Date: Tue, 17 Jun 2008 20:40:45 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000831fff422-755cb226
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003240
 Contact: <sip:3034030@5.5.5.45:5060>
 Call-ID: 001a2fcb-77d60006-2f4df9de-01079292@5.5.5.241
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK0158e559
 CSeq: 101 INVITE

[\[diagram\]](#) 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=z9hG4bK6df7932a
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:40:47 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: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 26727 1 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 20798 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

Date: Tue, 17 Jun 2008 20:40:48 GMT
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 Allow-Events: presence
 Content-Length: 0
 To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK6df7932a
 CSeq: 101 INVITE

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

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

Date: Tue, 17 Jun 2008 20:40:48 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Cisco-Guid: 2691562496-2239832385-47016-755303685
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 302
 User-Agent: Cisco-CUCM7.0
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc4e6d679061
 CSeq: 101 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0

```
m=audio 20798 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=fmtp:0
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=z9hG4bKc4d54a076ec
From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003241
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00074caf2f27-56f84249
Call-ID: a7950a00-8581214d-b7ab-2d050505@5.5.5.45
Date: Tue, 17 Jun 2008 20:40:47 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 15175 0 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 20802 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

```
Date: Tue, 17 Jun 2008 20:40:45 GMT
From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003241
Allow-Events: presence
Content-Length: 205
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00074caf2f27-56f84249
Content-Type: application/sdp
Call-ID: a7950a00-8581214d-b7ab-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc4f5d9d075
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 5.5.5.241
t=0 0
m=audio 26120 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

```
Date: Tue, 17 Jun 2008 20:40:45 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000831fff422-755cb226
Allow-Events: presence
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003240
Contact: <sip:3034030@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2fcb-77d60006-2f4df9de-01079292@5.5.5.241
Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK0158e559
CSeq: 101 INVITE
```



```
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 20802 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

```
Date: Tue, 17 Jun 2008 20:40:45 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000831fff422-755cb226
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003240
Contact: <sip:3034030@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2fcb-77d60006-2f4df9de-01079292@5.5.5.241
Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK0158e559
CSeq: 101 INVITE
```

```
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 20802 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=z9hG4bKc4e6d679061
From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
Date: Tue, 17 Jun 2008 20:40:48 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 26655 1 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 19030 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=recvnly
```

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

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

```
Date: Tue, 17 Jun 2008 20:40:48 GMT
From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
Allow-Events: presence
Content-Length: 0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc50fc821d5
CSeq: 101 ACK
Max-Forwards: 70
```

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

[27] SIP/2.0 200 OK

Date: Tue, 17 Jun 2008 20:40:48 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 217
 To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK6df7932a
 CSeq: 101 INVITE

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 19030 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=recvnonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

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

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

Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK336ebae5
 From: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000831fff422-755cb226
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003240
 Call-ID: 001a2fcb-77d60006-2f4df9de-01079292@5.5.5.241
 Max-Forwards: 70
 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=z9hG4bK6b3d868d
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:40:48 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=z9hG4bK36264a05
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00074caf2f27-56f84249
 To: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003241
 Call-ID: a7950a00-8581214d-b7ab-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:40:59 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

Date: Tue, 17 Jun 2008 20:40:48 GMT
 From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003240
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000831fff422-755cb226
 Call-ID: 001a2fcb-77d60006-2f4df9de-01079292@5.5.5.241
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc517b05e004
 CSeq: 101 BYE
 Max-Forwards: 70

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

[32] SIP/2.0 200 OK

Date: Tue, 17 Jun 2008 20:41:00 GMT

From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00074caf2f27-56f84249
 Content-Length: 0
 To: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003241
 Call-ID: a7950a00-8581214d-b7ab-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK36264a05
 CSeq: 101 BYE

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

[33] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc517b05e004
 From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003240
 To: "3034030" <sip:3034030@5.5.5.45>;tag=001a2fcb77d6000831fff422-755cb226
 Call-ID: 001a2fcb-77d60006-2f4df9de-01079292@5.5.5.241
 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=z9hG4bK0bb4e2ad
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:41:02 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: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 26727 2 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 20798 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

Date: Tue, 17 Jun 2008 20:41:03 GMT
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 Allow-Events: presence
 Content-Length: 0
 To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK0bb4e2ad
 CSeq: 102 INVITE

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

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

Date: Tue, 17 Jun 2008 20:41:03 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Cisco-Guid: 2691562496-2239832385-47016-755303685
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 290
 User-Agent: Cisco-CUCM7.0
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc523f07fff9
 CSeq: 102 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 3 IN IP4 5.5.5.45

```
s=SIP Call
c=IN IP4 5.5.5.242
t=0 0
m=audio 20798 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=fmtp:0
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=z9hG4bKc523f07fff9
From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
Date: Tue, 17 Jun 2008 20:41:03 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 26655 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 19030 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

```
Date: Tue, 17 Jun 2008 20:41:03 GMT
From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
Allow-Events: presence
Content-Length: 0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc53317c4765
CSeq: 102 ACK
Max-Forwards: 70
```

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

[39] SIP/2.0 200 OK

```
Date: Tue, 17 Jun 2008 20:41:03 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK0bb4e2ad
CSeq: 102 INVITE
```

```
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 19030 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK51257cc6
 From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:41:03 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=z9hG4bK7e61051c
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
 Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 20:41:10 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

Date: Tue, 17 Jun 2008 20:41:03 GMT
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc543e5fd162
 CSeq: 102 BYE
 Max-Forwards: 70

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

[43] SIP/2.0 200 OK

Date: Tue, 17 Jun 2008 20:41:10 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0006120933f9-7c59da81
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003238
 Call-ID: 001a2f8d-f17f0004-334fca2f-608354a8@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7e61051c
 CSeq: 102 BYE

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

[44] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc543e5fd162
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003239
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00065025e14f-1b07059f
 Call-ID: a06dfc00-85812141-b7a9-2d050505@5.5.5.45
 Date: Tue, 17 Jun 2008 20:41:09 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

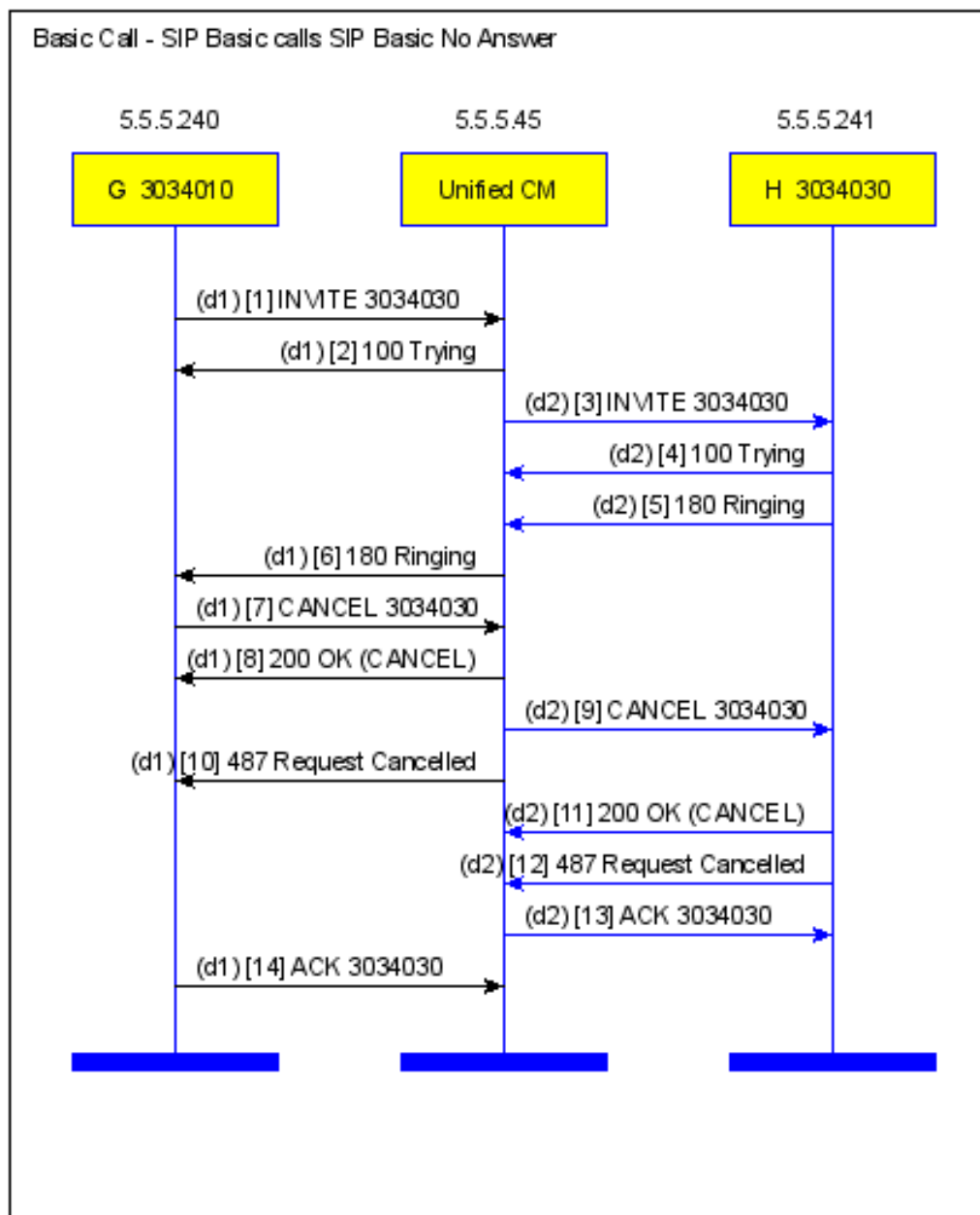
Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

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=z9hG4bK381dc668
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000a6c8b8b07-33f06c43
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-09ec205d-66062f05@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 17:39:37 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 15531 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 23136 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

Date: Wed, 18 Jun 2008 17:39:37 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000a6c8b8b07-33f06c43
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-09ec205d-66062f05@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK381dc668
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 17:39:37 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003261
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 84299800-85914859-bd8b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9743a7afc9
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9743a7afc9
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003261
 To: <sip:3034030@5.5.5.241>
 Call-ID: 84299800-85914859-bd8b-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 17:39:37 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=z9hG4bKc9743a7afc9
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003261
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c6ecc9007-3d52753d
 Call-ID: 84299800-85914859-bd8b-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 17:39:37 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

Date: Wed, 18 Jun 2008 17:39:37 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000a6c8b8b07-33f06c43
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003260
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-09ec205d-66062f05@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK381dc668
 CSeq: 101 INVITE

[\[diagram\]](#) 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=z9hG4bK381dc668
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000a6c8b8b07-33f06c43
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-09ec205d-66062f05@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 17:39:46 GMT
 CSeq: 101 CANCEL
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

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

[8] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 17:39:47 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000a6c8b8b07-33f06c43
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-09ec205d-66062f05@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK381dc668
 CSeq: 101 CANCEL

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

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

Date: Wed, 18 Jun 2008 17:39:37 GMT
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003261
 Content-Length: 0
 To: <sip:3034030@5.5.5.241>
 Call-ID: 84299800-85914859-bd8b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9743a7afc9
 CSeq: 101 CANCEL
 Max-Forwards: 70

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

[10] SIP/2.0 487 Request Cancelled

Date: Wed, 18 Jun 2008 17:39:47 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000a6c8b8b07-33f06c43
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003260
 Call-ID: 001a2f8d-f17f0004-09ec205d-66062f05@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK381dc668
 CSeq: 101 INVITE

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

[11] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9743a7afc9
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003261
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c6ecc9007-3d52753d
 Call-ID: 84299800-85914859-bd8b-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 17:39:46 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=z9hG4bKc9743a7afc9
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003261
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c6ecc9007-3d52753d
Call-ID: 84299800-85914859-bd8b-2d050505@5.5.5.45
Date: Wed, 18 Jun 2008 17:39:46 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

Date: Wed, 18 Jun 2008 17:39:37 GMT
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003261
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000c6ecc9007-3d52753d
Call-ID: 84299800-85914859-bd8b-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc9743a7afc9
CSeq: 101 ACK
Max-Forwards: 70

[\[diagram\]](#) 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=z9hG4bK381dc668
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000a6c8b8b07-33f06c43
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003260
Call-ID: 001a2f8d-f17f0004-09ec205d-66062f05@5.5.5.240
Date: Wed, 18 Jun 2008 17:39:47 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, SIP TNP and SCCP phones would clear the call on the phone without playing re-order. However a 3rd party or SIP Basic Phone with a POS3-07-5-00 might play re-order.

Configuration:

Node = Unified CM, IP = 5.5.5.45

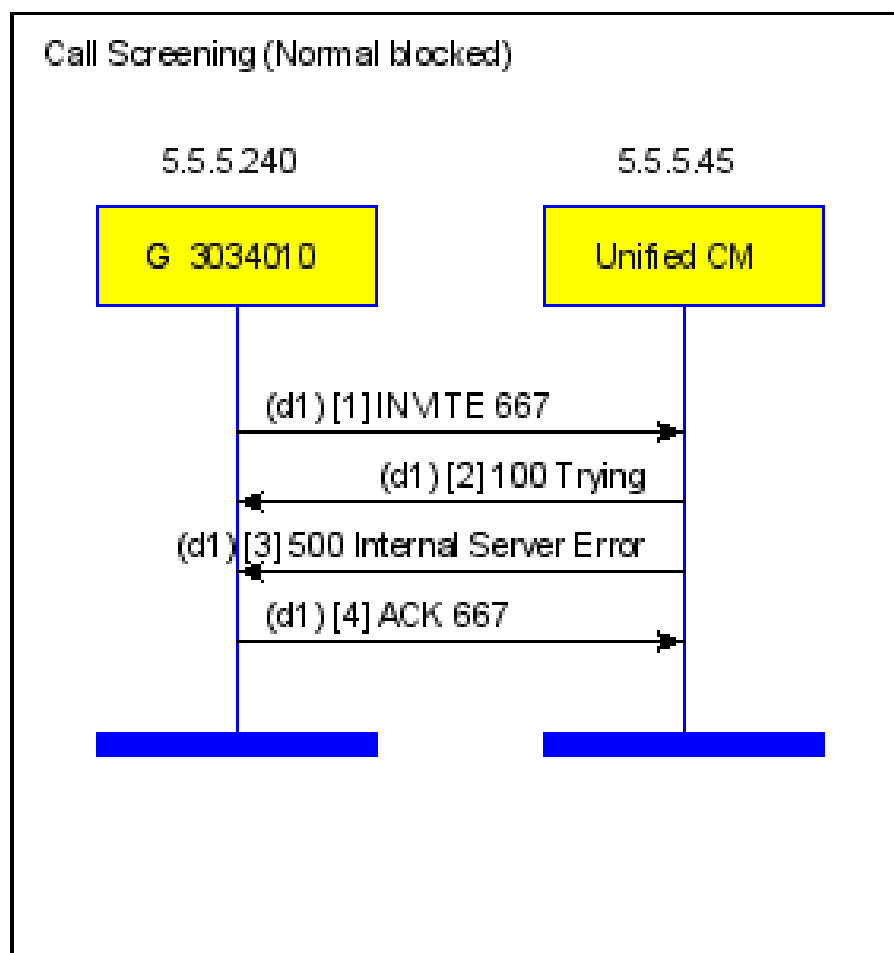
Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

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=z9hG4bK32f19d66
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f001041bbbee9-06e9b5d6
 To: <sip:667@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-45334956-6bc4eed2@5.5.5.240
 Max-Forwards: 70
 Date: Tue, 17 Jun 2008 21:16:41 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 27242 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 20782 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

Date: Tue, 17 Jun 2008 21:16:41 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f001041bbbee9-06e9b5d6
 Allow-Events: presence
 Content-Length: 0
 To: <sip:667@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-45334956-6bc4eed2@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK32f19d66
 CSeq: 101 INVITE

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

[3] SIP/2.0 500 Internal Server Error

Date: Tue, 17 Jun 2008 21:16:41 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f001041bbbee9-06e9b5d6
 Allow-Events: presence
 Content-Length: 0
 To: <sip:667@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003246
 Call-ID: 001a2f8d-f17f0004-45334956-6bc4eed2@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK32f19d66
 CSeq: 101 INVITE

[\[diagram\]](#) 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=z9hG4bK32f19d66
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f001041bbbee9-06e9b5d6
 To: <sip:667@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003246
 Call-ID: 001a2f8d-f17f0004-45334956-6bc4eed2@5.5.5.240
 Date: Tue, 17 Jun 2008 21:16:41 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

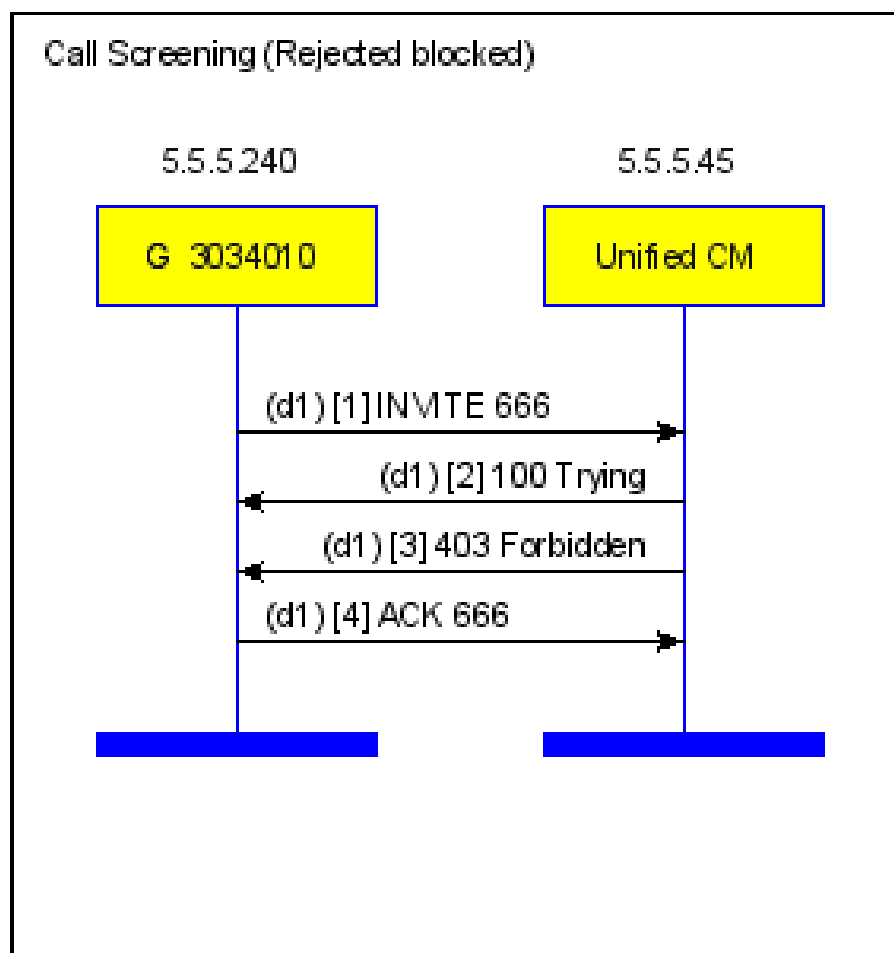
Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

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=z9hG4bK31fc76c0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f024d586b249c-59a9847a
 To: <sip:666@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-43516cb3-45c82202@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 15:30:12 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 27670 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 32590 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

Date: Wed, 18 Jun 2008 15:30:11 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f024d586b249c-59a9847a
 Allow-Events: presence
 Content-Length: 0
 To: <sip:666@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-43516cb3-45c82202@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK31fc76c0
 CSeq: 101 INVITE

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

[3] SIP/2.0 403 Forbidden

Reason: Q.850;cause=21
 Date: Wed, 18 Jun 2008 15:30:11 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f024d586b249c-59a9847a
 Allow-Events: presence
 Content-Length: 0
 To: <sip:666@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003248
 Call-ID: 001a2f8d-f17f0004-43516cb3-45c82202@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK31fc76c0
 CSeq: 101 INVITE

[\[diagram\]](#) 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=z9hG4bK31fc76c0
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f024d586b249c-59a9847a
 To: <sip:666@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003248
 Call-ID: 001a2f8d-f17f0004-43516cb3-45c82202@5.5.5.240
 Date: Wed, 18 Jun 2008 15:30:12 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

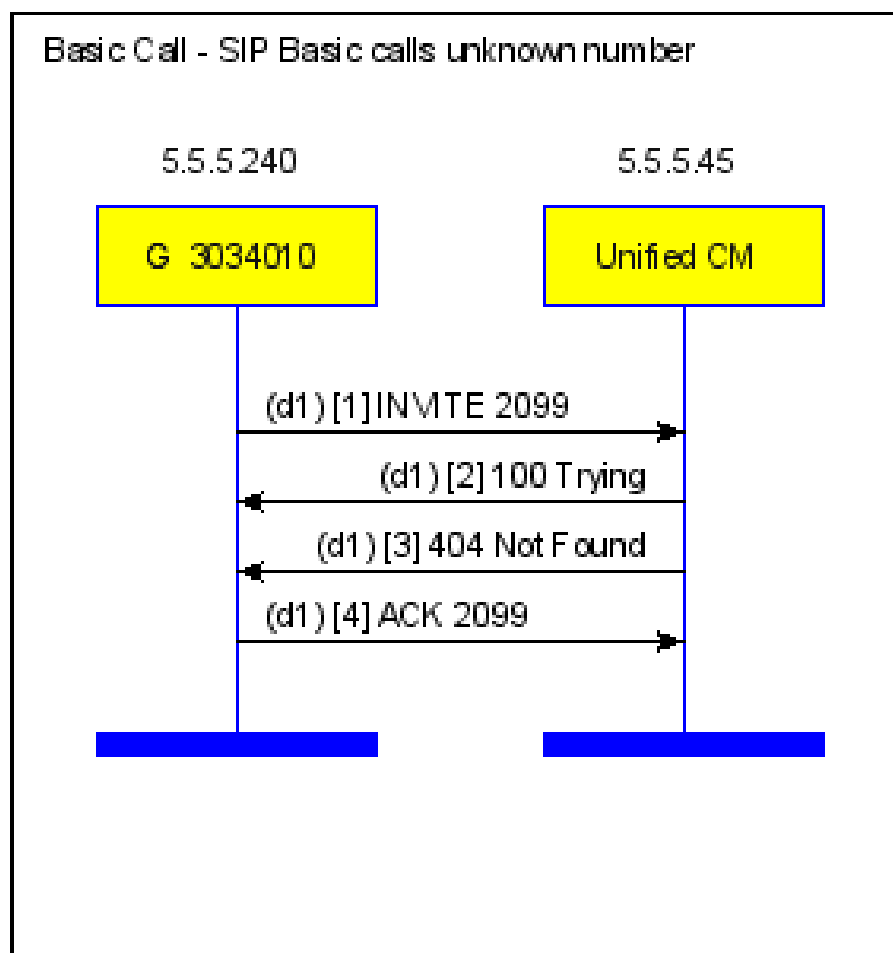
Phone = G, Line = 3034010, IP = 5.5.5.240, Model = SIP Basic

Scenario:

3034010 calls 2099

"404 not found" is sent back to 3034010

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=z9hG4bK54956217
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00057ada3f09-0cf0ac9f
 To: <sip:2099@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-1d0d023f-6296500c@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 17:24:26 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 3641 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 21564 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

Date: Wed, 18 Jun 2008 17:24:26 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00057ada3f09-0cf0ac9f
 Allow-Events: presence
 Content-Length: 0
 To: <sip:2099@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-1d0d023f-6296500c@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK54956217
 CSeq: 101 INVITE

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

[3] SIP/2.0 404 Not Found

Reason: Q.850;cause=1
 Date: Wed, 18 Jun 2008 17:24:26 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00057ada3f09-0cf0ac9f
 Allow-Events: presence
 Content-Length: 0
 To: <sip:2099@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003258
 Call-ID: 001a2f8d-f17f0004-1d0d023f-6296500c@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK54956217
 CSeq: 101 INVITE

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

[4] ACK sip:2099@5.5.5.45 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK54956217
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00057ada3f09-0cf0ac9f
 To: <sip:2099@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003258
 Call-ID: 001a2f8d-f17f0004-1d0d023f-6296500c@5.5.5.240
 Date: Wed, 18 Jun 2008 17:24:26 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 its "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)

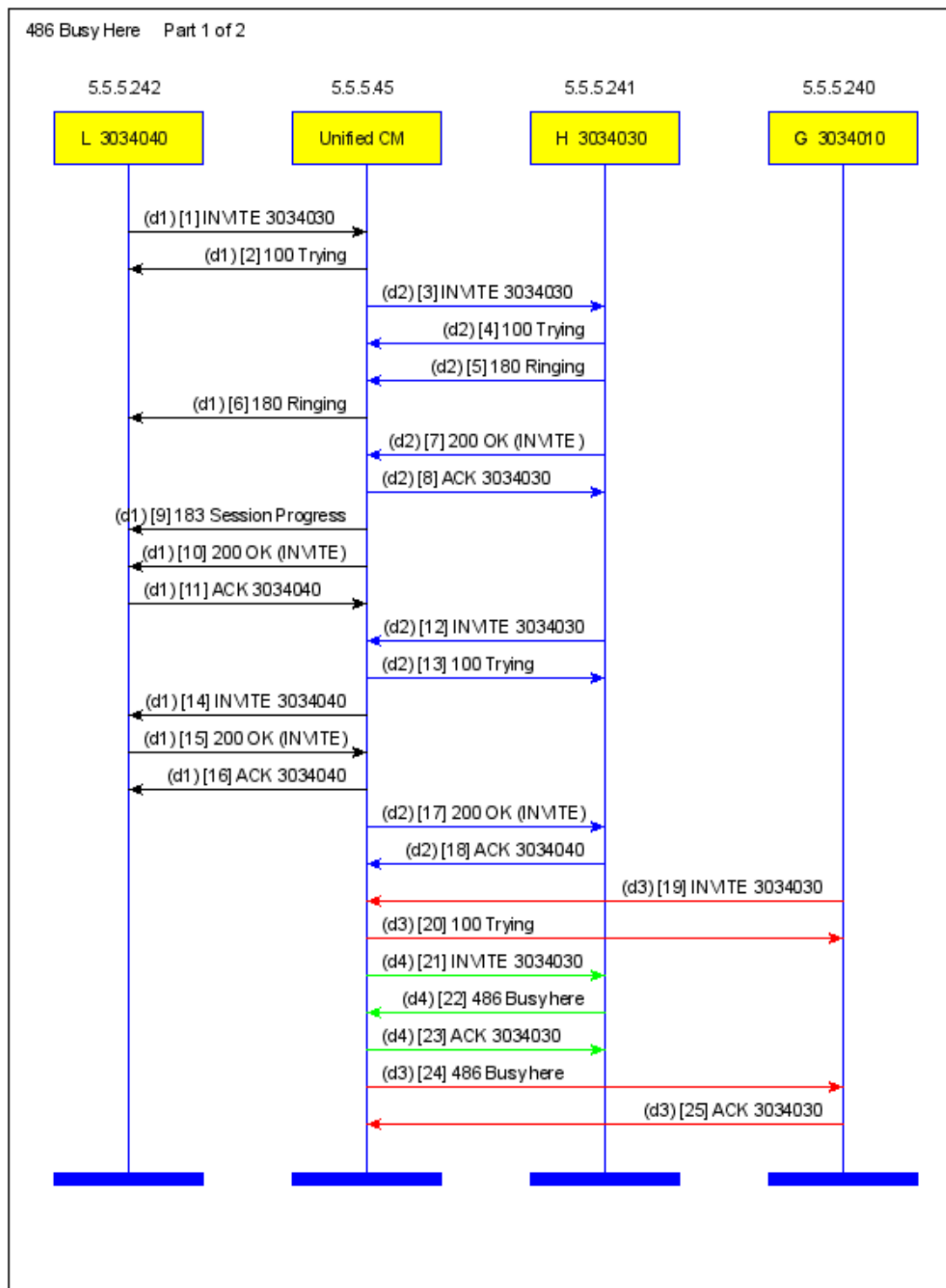
3034010 calls 3034030

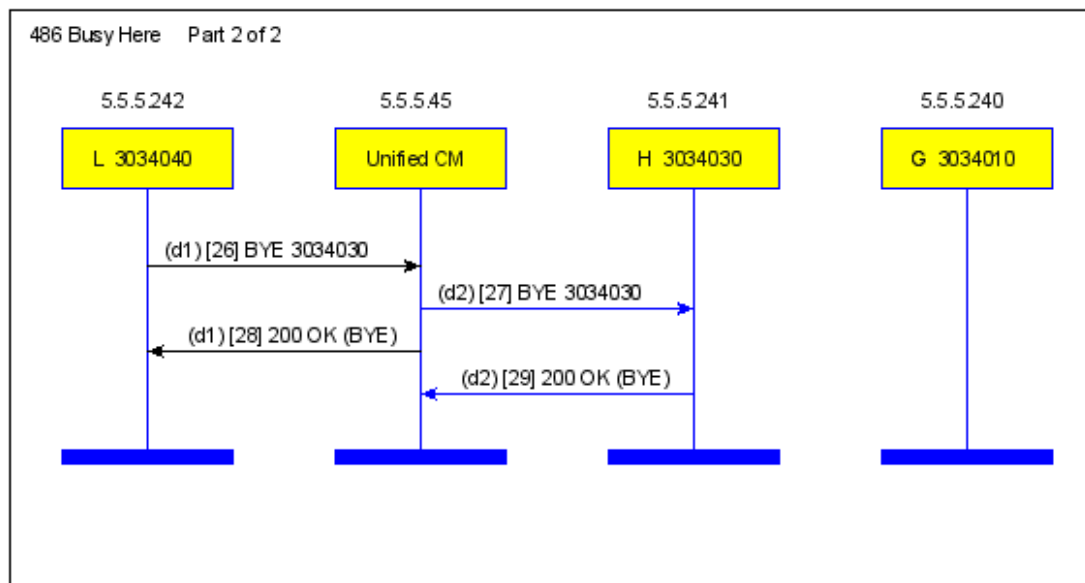
3034030 responds with "486 Busy Here"

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 5.5.5.242:5060;branch=z9hG4bK770b2be8
 From: "3034040" <sip:3034040@5.5.5.45>;tag=0018b93bb53e000c3997de87-32cfec21
 To: <sip:3034030@5.5.5.45>
 Call-ID: 0018b93b-b53e0006-1cdb78a5-5a73b08b@5.5.5.242
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 21:00:41 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034040@5.5.5.242:5060>
 Expires: 180
 Accept: application/sdp
 Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;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 10334 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 27176 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:\[prev\]](#)[\[next\]](#)

[2] SIP/2.0 100 Trying

Date: Mon, 30 Jun 2008 21:00:42 GMT
 From: "3034040" <sip:3034040@5.5.5.45>;tag=0018b93bb53e000c3997de87-32cfec21
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 0018b93b-b53e0006-1cdb78a5-5a73b08b@5.5.5.242
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK770b2be8
 CSeq: 101 INVITE

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

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

Date: Mon, 30 Jun 2008 21:00:42 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863928
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45;x-cisco-callback-number=3034040>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 986b7e80-8691497a-a5aa-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6336d47f3fb
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6336d47f3fb
 From: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863928
 To: <sip:3034030@5.5.5.241>
 Call-ID: 986b7e80-8691497a-a5aa-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 21:00:41 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=z9hG4bK6336d47f3fb
 From: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863928
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600113aec6389-5c8c6919
 Call-ID: 986b7e80-8691497a-a5aa-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 21:00:41 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

Date: Mon, 30 Jun 2008 21:00:42 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034040" <sip:3034040@5.5.5.45>;tag=0018b93bb53e000c3997de87-32cfec21
 Allow-Events: presence
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863927
 Contact: <sip:3034040@5.5.5.45:5060>
 Call-ID: 0018b93b-b53e0006-1cdb78a5-5a73b08b@5.5.5.242
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK770b2be8
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6336d47f3fb
 From: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863928
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600113aec6389-5c8c6919
 Call-ID: 986b7e80-8691497a-a5aa-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 21:00:42 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: 247
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 790 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 23084 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

Date: Mon, 30 Jun 2008 21:00:42 GMT
 From: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863928
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600113aec6389-5c8c6919
 Content-Type: application/sdp
 Call-ID: 986b7e80-8691497a-a5aa-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK63479769852
 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 5.5.5.242
 t=0 0
 m=audio 27176 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

Date: Mon, 30 Jun 2008 21:00:42 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034040" <sip:3034040@5.5.5.45>;tag=0018b93bb53e000c3997de87-32cfec21
 Allow-Events: presence
 Remote-Party-ID: "3034030 Alertingname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863927
 Contact: <sip:3034040@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 0018b93b-b53e0006-1cdb78a5-5a73b08b@5.5.5.242
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK770b2be8
 CSeq: 101 INVITE

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 23084 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

Date: Mon, 30 Jun 2008 21:00:42 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034040" <sip:3034040@5.5.5.45>;tag=0018b93bb53e000c3997de87-32cfec21
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863927
 Contact: <sip:3034040@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 0018b93b-b53e0006-1cdb78a5-5a73b08b@5.5.5.242
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK770b2be8
 CSeq: 101 INVITE

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 23084 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 5.5.5.242:5060;branch=z9hG4bK384ac86d
 From: "3034040" <sip:3034040@5.5.5.45>;tag=0018b93bb53e000c3997de87-32cfec21
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863927
 Call-ID: 0018b93b-b53e0006-1cdb78a5-5a73b08b@5.5.5.242
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 21:00:43 GMT
 CSeq: 101 ACK
 User-Agent: Cisco-CP7960G/7.5
 Remote-Party-ID: "3034040" <sip:3034040@5.5.5.242>;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 5.5.5.241:5060;branch=z9hG4bK05e8e1eb
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600113aec6389-5c8c6919
 To: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863928
 Call-ID: 986b7e80-8691497a-a5aa-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 21:00:46 GMT
 CSeq: 101 INVITE
 User-Agent: Cisco-CP7960G/7.5
 Contact: <sip:3034030@5.5.5.241:5060>
 Remote-Party-ID: "3034030" <sip:3034030@5.5.5.241>;party=called;id-type=subscriber;privacy=off;screen=yes

Content-Length: 247
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 790 1 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 23084 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=sendonly

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

[13] SIP/2.0 100 Trying

Date: Mon, 30 Jun 2008 21:00:47 GMT
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600113aec6389-5c8c6919
 Allow-Events: presence
 Content-Length: 0
 To: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863928
 Call-ID: 986b7e80-8691497a-a5aa-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK05e8e1eb
 CSeq: 101 INVITE

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

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

Date: Mon, 30 Jun 2008 21:00:47 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863927
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Cisco-Guid: 2557181568-2257668474-42409-755303685
 Remote-Party-ID: "3034030 Displayname" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 302
 User-Agent: Cisco-CUCM7.0
 To: "3034040" <sip:3034040@5.5.5.45>;tag=0018b93bb53e000c3997de87-32cfec21
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 0018b93b-b53e0006-1cdb78a5-5a73b08b@5.5.5.242
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6352644f79e
 CSeq: 101 INVITE
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 2 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 23084 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=fmtp:0
 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=z9hG4bK6352644f79e
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863927
 To: "3034040" <sip:3034040@5.5.5.45>;tag=0018b93bb53e000c3997de87-32cfec21
 Call-ID: 0018b93b-b53e0006-1cdb78a5-5a73b08b@5.5.5.242
 Date: Mon, 30 Jun 2008 21:00:46 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=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 10334 1 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 27176 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

Date: Mon, 30 Jun 2008 21:00:47 GMT
From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863927
Allow-Events: presence
Content-Length: 0
To: "3034040" <sip:3034040@5.5.5.45>;tag=0018b93bb53e000c3997de87-32cfec21
Call-ID: 0018b93b-b53e0006-1cdb78a5-5a73b08b@5.5.5.242
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK63671365a06
CSeq: 101 ACK
Max-Forwards: 70

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

[17] SIP/2.0 200 OK

Date: Mon, 30 Jun 2008 21:00:47 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600113aec6389-5c8c6919
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 217
To: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863928
Contact: <sip:3034040@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 986b7e80-8691497a-a5aa-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK05e8e1eb
CSeq: 101 INVITE

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 27176 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 5.5.5.241:5060;branch=z9hG4bK4bdae5cf
From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600113aec6389-5c8c6919
To: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863928
Call-ID: 986b7e80-8691497a-a5aa-2d050505@5.5.5.45
Max-Forwards: 70
Date: Mon, 30 Jun 2008 21:00:46 GMT
CSeq: 101 ACK
User-Agent: Cisco-CP7960G/7.5
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: [\[prev\]](#)[\[next\]](#)

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

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK20f7d1b9
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0009723a48d5-225a6078
To: <sip:3034030@5.5.5.45>
Call-ID: 001a2f8d-f17f0006-1a33c7f6-517ca1d2@5.5.5.240
Max-Forwards: 70
Date: Mon, 30 Jun 2008 21:00:51 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: 249
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 13483 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 16518 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

Date: Mon, 30 Jun 2008 21:00:51 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0009723a48d5-225a6078
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0006-1a33c7f6-517ca1d2@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK20f7d1b9
 CSeq: 101 INVITE

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

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

Date: Mon, 30 Jun 2008 21:00:51 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863930
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "3034010 Displayname" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 9dc8c900-86914983-a5ac-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK63778f02d9e
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[22] SIP/2.0 486 Busy here

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK63778f02d9e
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863930
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6001234306e9a-25822558
 Call-ID: 9dc8c900-86914983-a5ac-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 21:00:50 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] ACK sip:3034030@5.5.5.241:5060 SIP/2.0

Date: Mon, 30 Jun 2008 21:00:51 GMT
 From: "3034010 Displayname" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863930
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6001234306e9a-25822558
 Call-ID: 9dc8c900-86914983-a5ac-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK63778f02d9e
 CSeq: 101 ACK
 Max-Forwards: 70

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

[24] SIP/2.0 486 Busy here

Reason: Q.850;cause=17
 Date: Mon, 30 Jun 2008 21:00:51 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0009723a48d5-225a6078
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863929
 Call-ID: 001a2f8d-f17f0006-1a33c7f6-517ca1d2@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK20f7d1b9
 CSeq: 101 INVITE

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

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

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK20f7d1b9
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0009723a48d5-225a6078
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863929
 Call-ID: 001a2f8d-f17f0006-1a33c7f6-517ca1d2@5.5.5.240
 Date: Mon, 30 Jun 2008 21:00:52 GMT
 CSeq: 101 ACK
 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 5.5.5.242:5060;branch=z9hG4bK39f24a38
 From: "3034040" <sip:3034040@5.5.5.45>;tag=0018b93bb53e000c3997de87-32cfec21
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863929
 Call-ID: 0018b93b-b53e0006-1cdb78a5-5a73b08b@5.5.5.242
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 21:00:54 GMT
 CSeq: 102 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

Date: Mon, 30 Jun 2008 21:00:47 GMT
 From: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863928
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600113aec6389-5c8c6919
 Call-ID: 986b7e80-8691497a-a5aa-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6384801b336
 CSeq: 102 BYE
 Max-Forwards: 70

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

[28] SIP/2.0 200 OK

Date: Mon, 30 Jun 2008 21:00:55 GMT
 From: "3034040" <sip:3034040@5.5.5.45>;tag=0018b93bb53e000c3997de87-32cfec21
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863927
 Call-ID: 0018b93b-b53e0006-1cdb78a5-5a73b08b@5.5.5.242
 Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK39f24a38
 CSeq: 102 BYE

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

[29] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK6384801b336
 From: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863928
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600113aec6389-5c8c6919
 Call-ID: 986b7e80-8691497a-a5aa-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 21:00:54 GMT
 CSeq: 102 BYE
 Server: Cisco-CP7960G/7.5
 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:

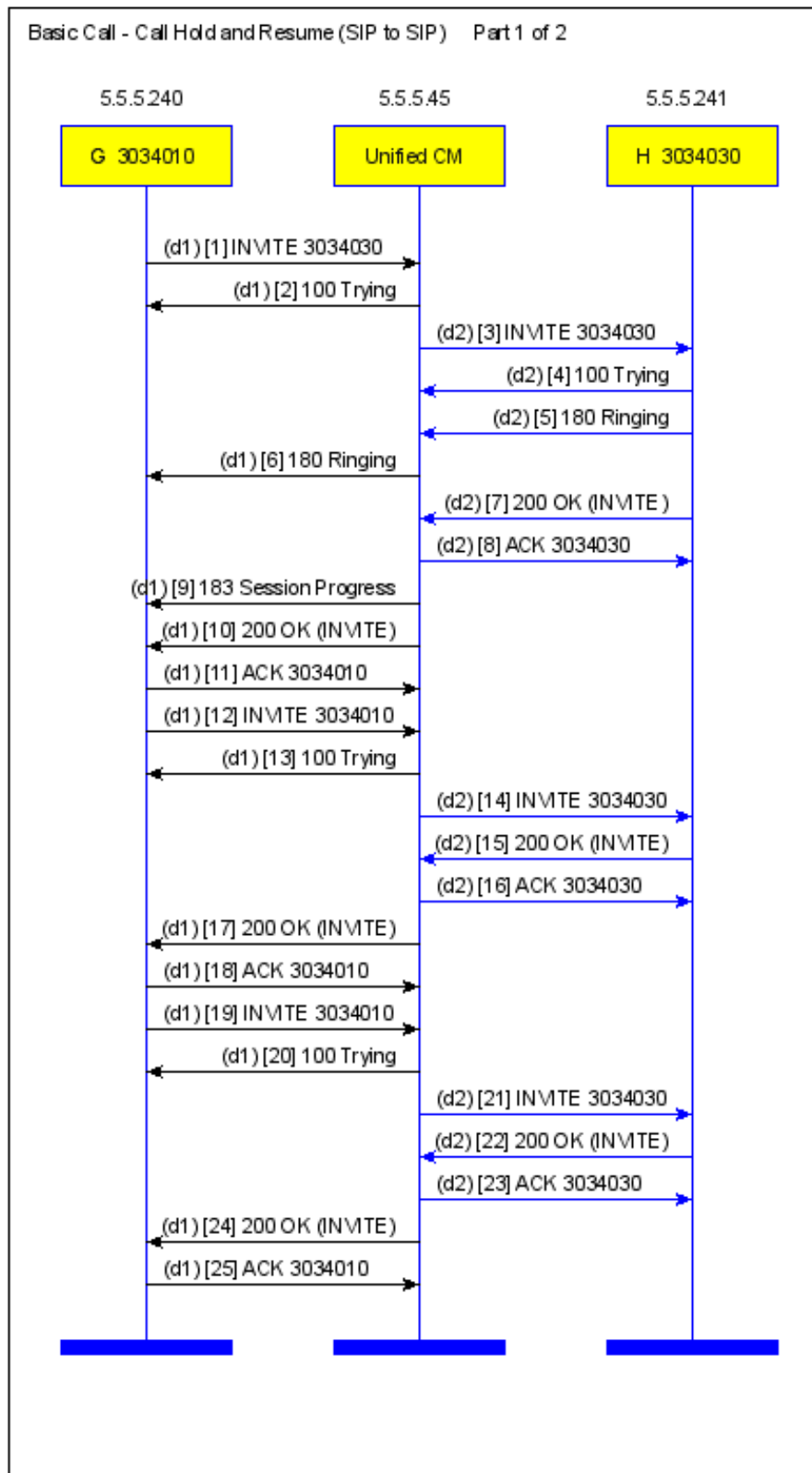
3034010 calls 3034030

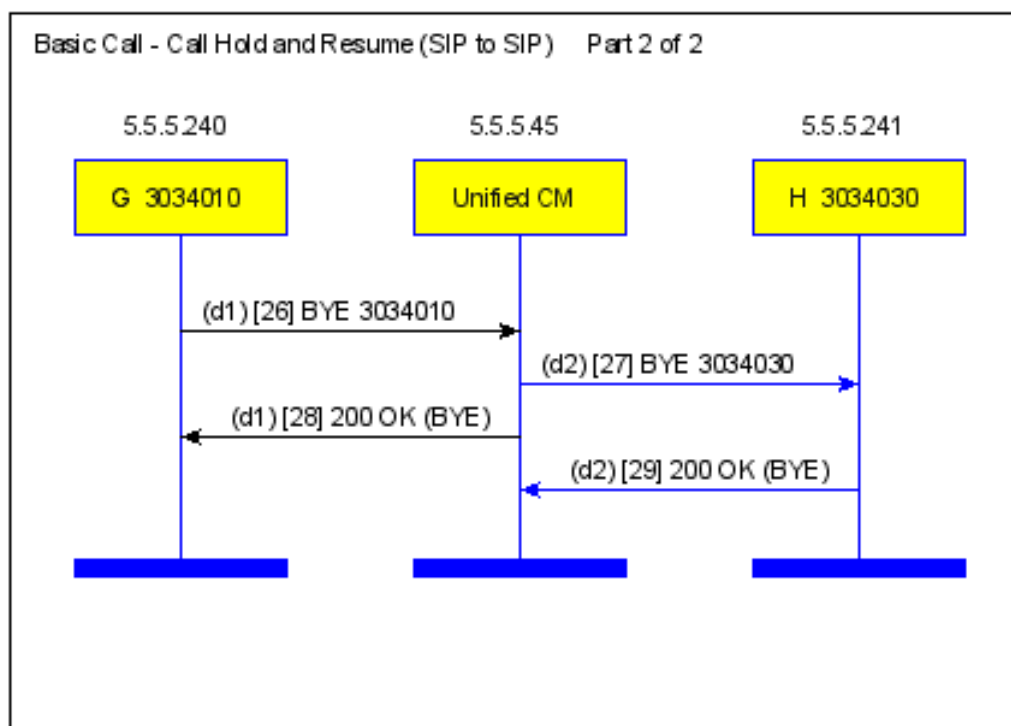
3034030 answers

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=z9hG4bK58c4ae08
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 18:35:50 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 13101 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 32098 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

Date: Wed, 18 Jun 2008 18:35:51 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK58c4ae08
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 18:35:51 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd122c896513
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd122c896513
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
 To: <sip:3034030@5.5.5.241>
 Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 18:35:50 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=z9hG4bKd122c896513
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0fedac7d-1af7e210
 Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 18:35:51 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

Date: Wed, 18 Jun 2008 18:35:51 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK58c4ae08
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd122c896513
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0fedac7d-1af7e210
 Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 18:35:52 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 1132 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 20876 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

Date: Wed, 18 Jun 2008 18:35:51 GMT
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0fedac7d-1af7e210
 Content-Type: application/sdp
 Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd1356f4feaa
 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 5.5.5.240
 t=0 0
 m=audio 32098 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

Date: Wed, 18 Jun 2008 18:35:51 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK58c4ae08
 CSeq: 101 INVITE

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 20876 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

Date: Wed, 18 Jun 2008 18:35:51 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK58c4ae08
 CSeq: 101 INVITE

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 20876 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 5.5.5.240:5060;branch=z9hG4bK25884c92
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
 Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 18:35:52 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7c061b96
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
 Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 18:35:56 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 13101 1 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 32098 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

Date: Wed, 18 Jun 2008 18:35:57 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.241>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
 Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7c061b96
 CSeq: 102 INVITE

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

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

Date: Wed, 18 Jun 2008 18:35:57 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 302
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0fedac7d-1af7e210
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd144823f444
 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 5.5.5.240
 t=0 0
 m=audio 32098 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=fmtp:0
 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=z9hG4bKd144823f444
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0fedac7d-1af7e210
 Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 18:35:56 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 1132 1 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 20876 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=recvnonly

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

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

Date: Wed, 18 Jun 2008 18:35:57 GMT
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0fedac7d-1af7e210
Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd157e9c3cef
CSeq: 102 ACK
Max-Forwards: 70

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

[17] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 18:35:57 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 217
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7c061b96
CSeq: 102 INVITE

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 20876 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=recvnonly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15

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

[18] ACK sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK66c1db46
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:35:56 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4843f628
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:36:00 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 13101 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 32098 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

```
Date: Wed, 18 Jun 2008 18:36:01 GMT
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4843f628
CSeq: 103 INVITE
```

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

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

```
Date: Wed, 18 Jun 2008 18:36:01 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 290
User-Agent: Cisco-CUCM7.0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0fedac7d-1af7e210
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd166a396719
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 5.5.5.240
t=0 0
m=audio 32098 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=fmtp:0
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=z9hG4bKd166a396719
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0fedac7d-1af7e210
Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
Date: Wed, 18 Jun 2008 18:36:00 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 1132 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 20876 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

```

Date: Wed, 18 Jun 2008 18:36:01 GMT
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000a0fedac7d-1af7e210
Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd175ad46aa9
CSeq: 103 ACK
Max-Forwards: 70

```

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

[24] SIP/2.0 200 OK

```

Date: Wed, 18 Jun 2008 18:36:01 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4843f628
CSeq: 103 INVITE

```

```

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 20876 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:3034010@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5729fc2a
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:36:01 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:3034010@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7540548c
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:36:04 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

```

Date: Wed, 18 Jun 2008 18:36:01 GMT
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
Content-Length: 0
User-Agent: Cisco-CUCM7.0

```


To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d6000a0fedac7d-1af7e210
 Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd184a4233b7
 CSeq: 104 BYE
 Max-Forwards: 70

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

[28] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 18:36:05 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f0008603fee7d-7d031426
 Content-Length: 0
 To: <sip:30340300@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003281
 Call-ID: 001a2f8d-f17f0004-16120531-75c16c9a@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7540548c
 CSeq: 104 BYE

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

[29] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd184a4233b7
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003282
 To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d6000a0fedac7d-1af7e210
 Call-ID: 5f392300-85915587-be13-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 18:36:04 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:

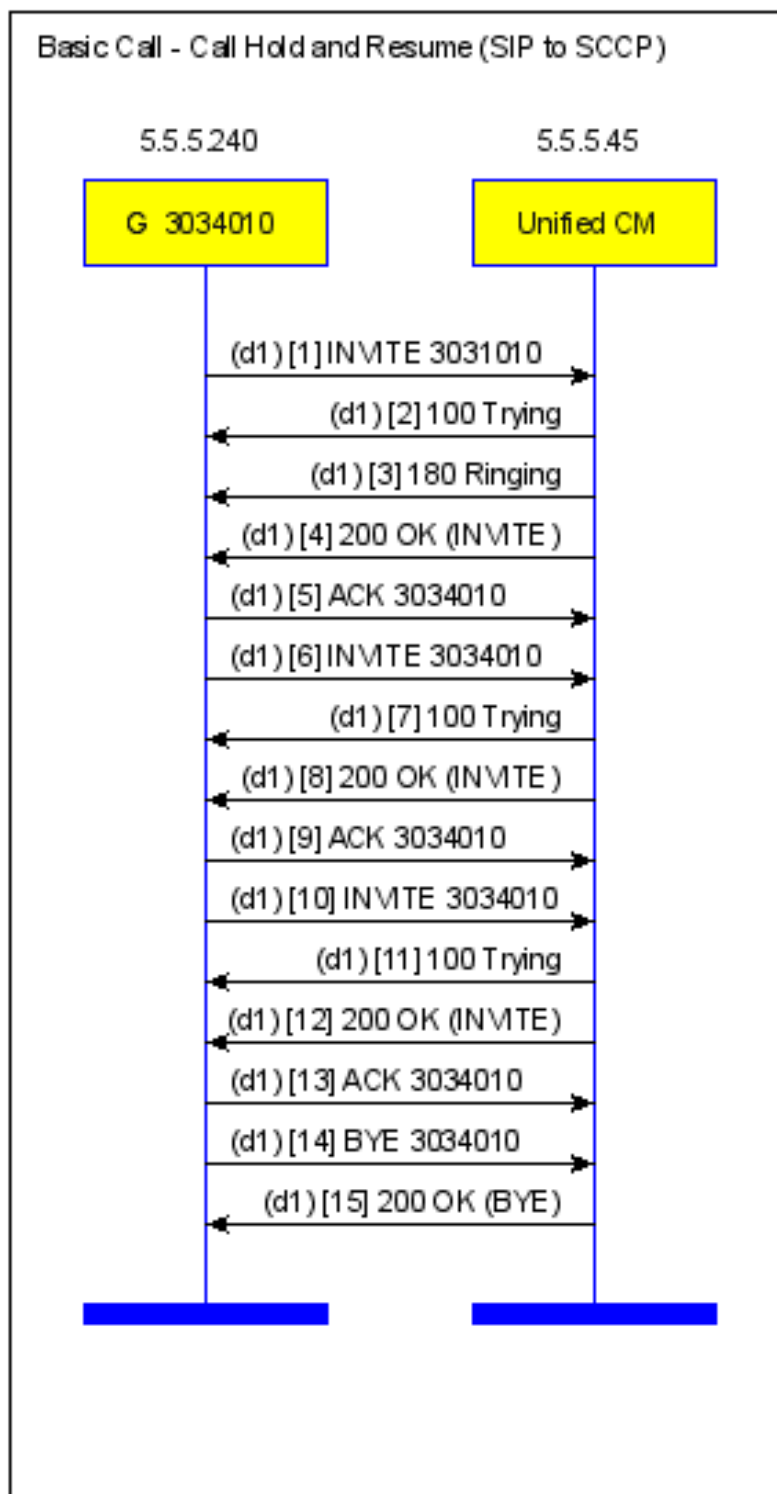
3034010 calls 3031010

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=z9hG4bK65259e64
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
 To: <sip:3031010@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 18:24:48 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 8316 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 20704 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

Date: Wed, 18 Jun 2008 18:24:49 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3031010@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK65259e64
 CSeq: 101 INVITE

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

[3] SIP/2.0 180 Ringing

Date: Wed, 18 Jun 2008 18:24:49 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
 Allow-Events: presence
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK65259e64
 CSeq: 101 INVITE

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

[4] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 18:24:49 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK65259e64
 CSeq: 101 INVITE

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 31762 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2a65272a
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:24:51 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@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK38e03311
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:24:58 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 8316 1 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 20704 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

```
Date: Wed, 18 Jun 2008 18:24:59 GMT
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
Allow-Events: presence
Content-Length: 0
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK38e03311
CSeq: 102 INVITE
```

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

[8] SIP/2.0 200 OK

```
Date: Wed, 18 Jun 2008 18:24:59 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 217
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK38e03311
CSeq: 102 INVITE
```

```
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 31762 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK48594904
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:24:58 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK04146663
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:25:02 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 8316 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 20704 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

```
Date: Wed, 18 Jun 2008 18:25:02 GMT
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
Allow-Events: presence
Content-Length: 0
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK04146663
CSeq: 103 INVITE
```

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

[12] SIP/2.0 200 OK

```
Date: Wed, 18 Jun 2008 18:25:02 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK04146663
CSeq: 103 INVITE
```

```
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 31762 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:3034010@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK55e59db8
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:25:02 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:3034010@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK13d9aacd
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:25:04 GMT
CSeq: 104 BYE
User-Agent: Cisco-CP7960G/7.5
Content-Length: 0

```

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

[15] SIP/2.0 200 OK

```

Date: Wed, 18 Jun 2008 18:25:05 GMT
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00050c32c8c5-7e627145
Content-Length: 0
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003279
Call-ID: 001a2f8d-f17f0004-328387f3-75443b9c@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK13d9aacd
CSeq: 104 BYE

```

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:

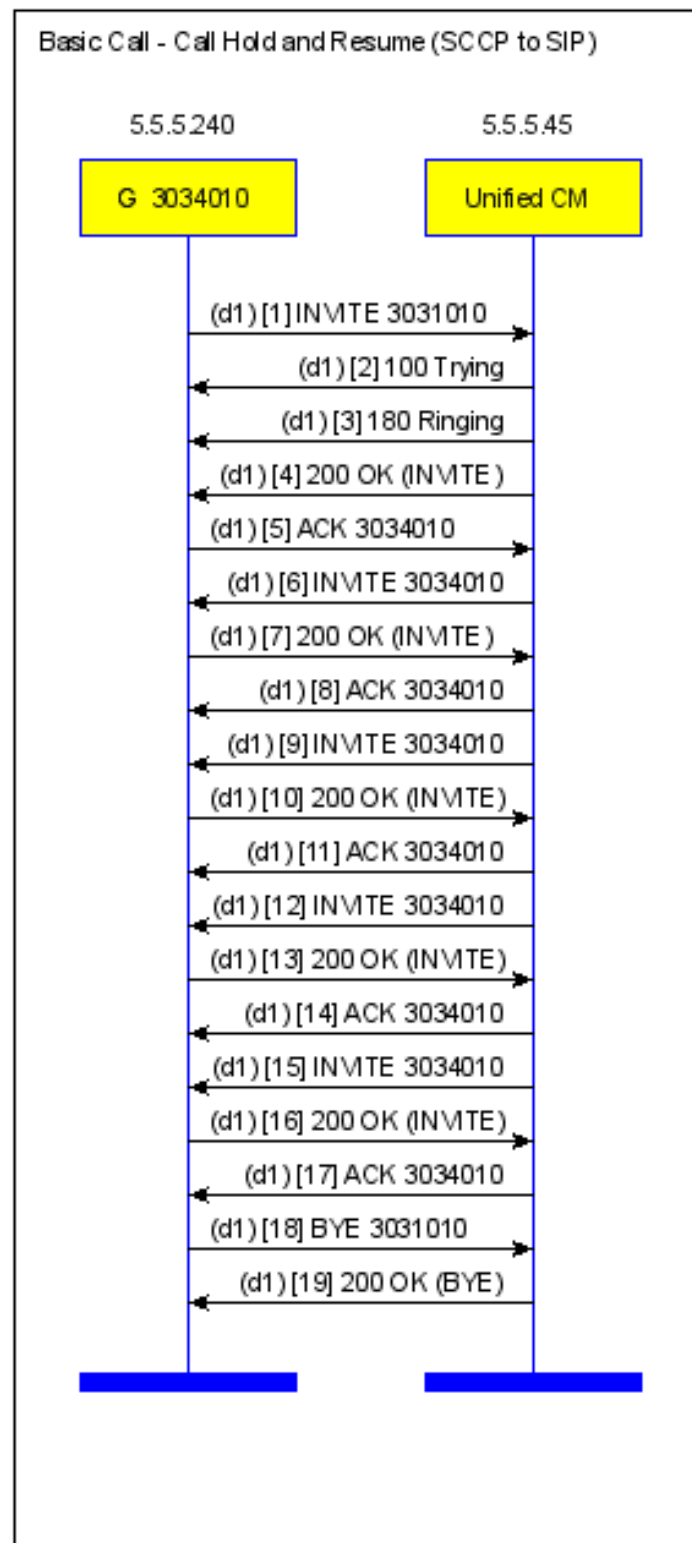
3034010 calls 3031010

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=z9hG4bK4e7092cb
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331
 To: <sip:3031010@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 18:17:48 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 8231 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 20032 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

Date: Wed, 18 Jun 2008 18:17:48 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3031010@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4e7092cb
 CSeq: 101 INVITE

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

[3] SIP/2.0 180 Ringing

Date: Wed, 18 Jun 2008 18:17:48 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331
 Allow-Events: presence
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4e7092cb
 CSeq: 101 INVITE

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

[4] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 18:17:48 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4e7092cb
 CSeq: 101 INVITE

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 29620 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4b016c4b
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276
Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:17:52 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

```
Date: Wed, 18 Jun 2008 18:18:00 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Cisco-Guid: 3652481920-2240893260-48627-755303685
Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 215
User-Agent: Cisco-CUCM7.0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331
Contact: <sip:3031010@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKc7f74972ed5
CSeq: 101 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 29620 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=z9hG4bKc7f74972ed5
From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331
Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240
Date: Wed, 18 Jun 2008 18:17:59 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: 198
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 8231 1 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 20032 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

Date: Wed, 18 Jun 2008 18:18:00 GMT

From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276

Allow-Events: presence

Content-Length: 0

To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331

Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd003b8b5f45

CSeq: 101 ACK

Max-Forwards: 70

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

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

Date: Wed, 18 Jun 2008 18:18:00 GMT

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276

Allow-Events: presence

Supported: timer,resource-priority,replaces

Min-SE: 1800

Cisco-Guid: 3652481920-2240893260-48627-755303685

Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=calling;screen=yes;privacy=off

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331

Contact: <sip:3031010@5.5.5.45:5060>

Expires: 180

Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd01762c3c32

CSeq: 102 INVITE

Max-Forwards: 70

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

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd01762c3c32

From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276

To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331

Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240

Date: Wed, 18 Jun 2008 18:18:00 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: 248

Content-Type: application/sdp

Content-Disposition: session;handling=optional

v=0

o=Cisco-SIPUA 8231 1 IN IP4 5.5.5.240

s=SIP Call

t=0 0

m=audio 20032 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

Date: Wed, 18 Jun 2008 18:18:00 GMT

From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276

Allow-Events: presence

Content-Length: 215

To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331

Content-Type: application/sdp

Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd026808f8dc

CSeq: 102 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 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=sendonly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

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

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

```
Date: Wed, 18 Jun 2008 18:18:05 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Cisco-Guid: 3652481920-2240893260-48627-755303685
Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 214
User-Agent: Cisco-CUCM7.0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331
Contact: <sip:3031010@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd032f52fd50
CSeq: 103 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 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=inactive
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

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

[13] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd032f52fd50
From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331
Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240
Date: Wed, 18 Jun 2008 18:18:05 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: 198
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 8231 3 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 20032 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: [\[prev\]](#)[\[next\]](#)

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

```
Date: Wed, 18 Jun 2008 18:18:05 GMT
From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276
Allow-Events: presence
Content-Length: 0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331
Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd047cbee63e
CSeq: 103 ACK
Max-Forwards: 70
```

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

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

Date: Wed, 18 Jun 2008 18:18:05 GMT

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276

Allow-Events: presence

Supported: timer,resource-priority,replaces

Min-SE: 1800

Cisco-Guid: 3652481920-2240893260-48627-755303685

Remote-Party-ID: "Megan" <sip:3031010@5.5.5.45>;party=calling;screen=yes;privacy=off

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331

Contact: <sip:3031010@5.5.5.45:5060>

Expires: 180

Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd0527ee9543

CSeq: 104 INVITE

Max-Forwards: 70

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

[16] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd0527ee9543

From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276

To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331

Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240

Date: Wed, 18 Jun 2008 18:18:05 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: 248

Content-Type: application/sdp

Content-Disposition: session;handling=optional

v=0

o=Cisco-SIPUA 8231 3 IN IP4 5.5.5.240

s=SIP Call

t=0 0

m=audio 20032 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

Date: Wed, 18 Jun 2008 18:18:05 GMT

From: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276

Allow-Events: presence

Content-Length: 205

To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331

Content-Type: application/sdp

Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd065eaa56e

CSeq: 104 ACK

Max-Forwards: 70

v=0

o=CiscoSystemsCCM-SIP 2000 5 IN IP4 5.5.5.45

s=SIP Call

c=IN IP4 5.5.5.217

t=0 0

m=audio 30916 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] BYE sip:3031010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK66a1b2a0

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331

To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276

Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240

Max-Forwards: 70
Date: Wed, 18 Jun 2008 18:18:11 GMT
CSeq: 102 BYE
User-Agent: Cisco-CP7960G/7.5
Content-Length: 0

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

[19] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 18:18:11 GMT
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00083a99835a-2a650331
Content-Length: 0
To: <sip:3031010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003276
Call-ID: 001a2f8d-f17f0004-53bf31e7-5f5834ac@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK66a1b2a0
CSeq: 102 BYE

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 Confn softkey

3034010 dials 3034040

3034040 is ringing

3034040 answers

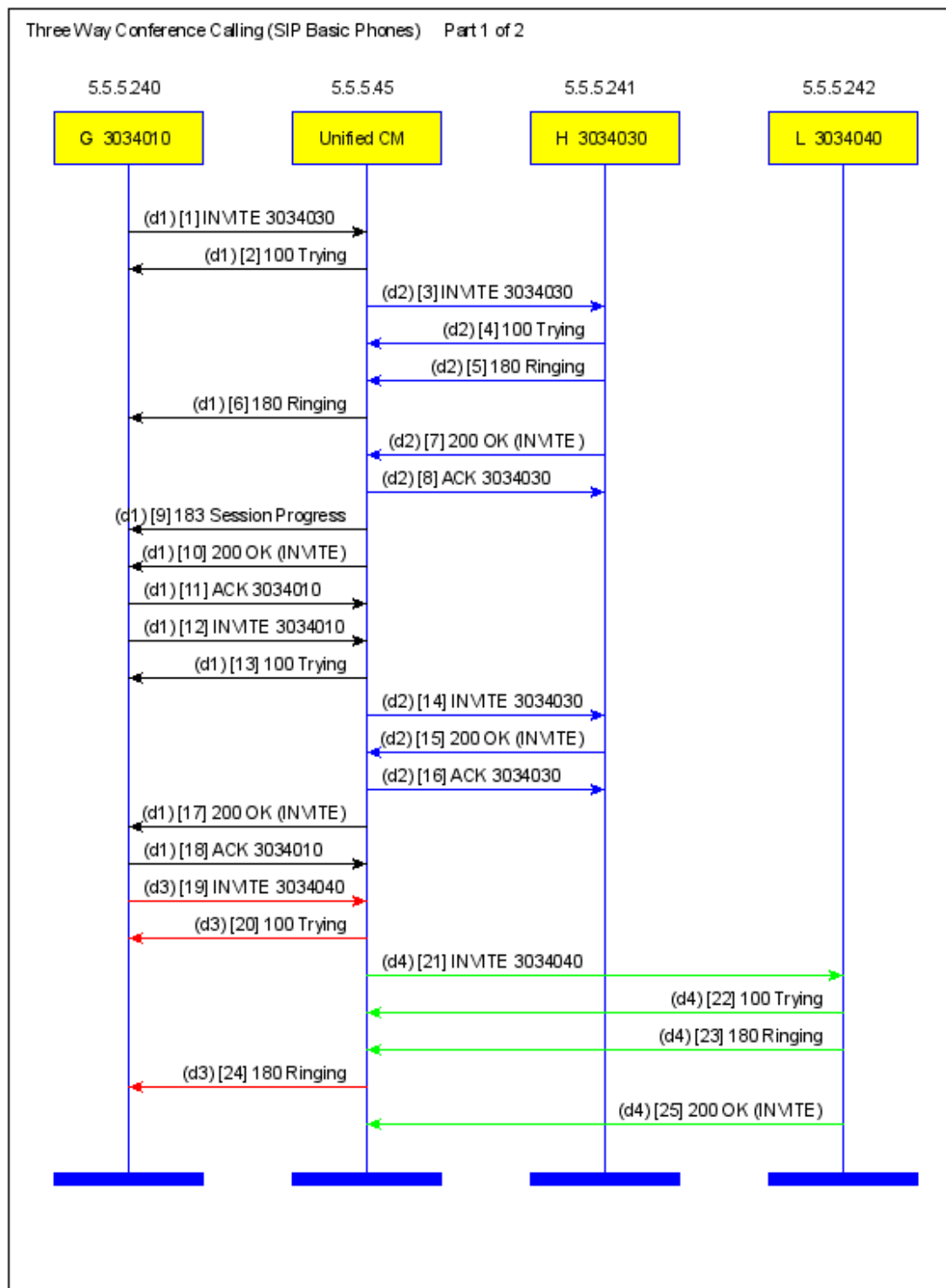
3034010 presses Join softkey to complete the conference

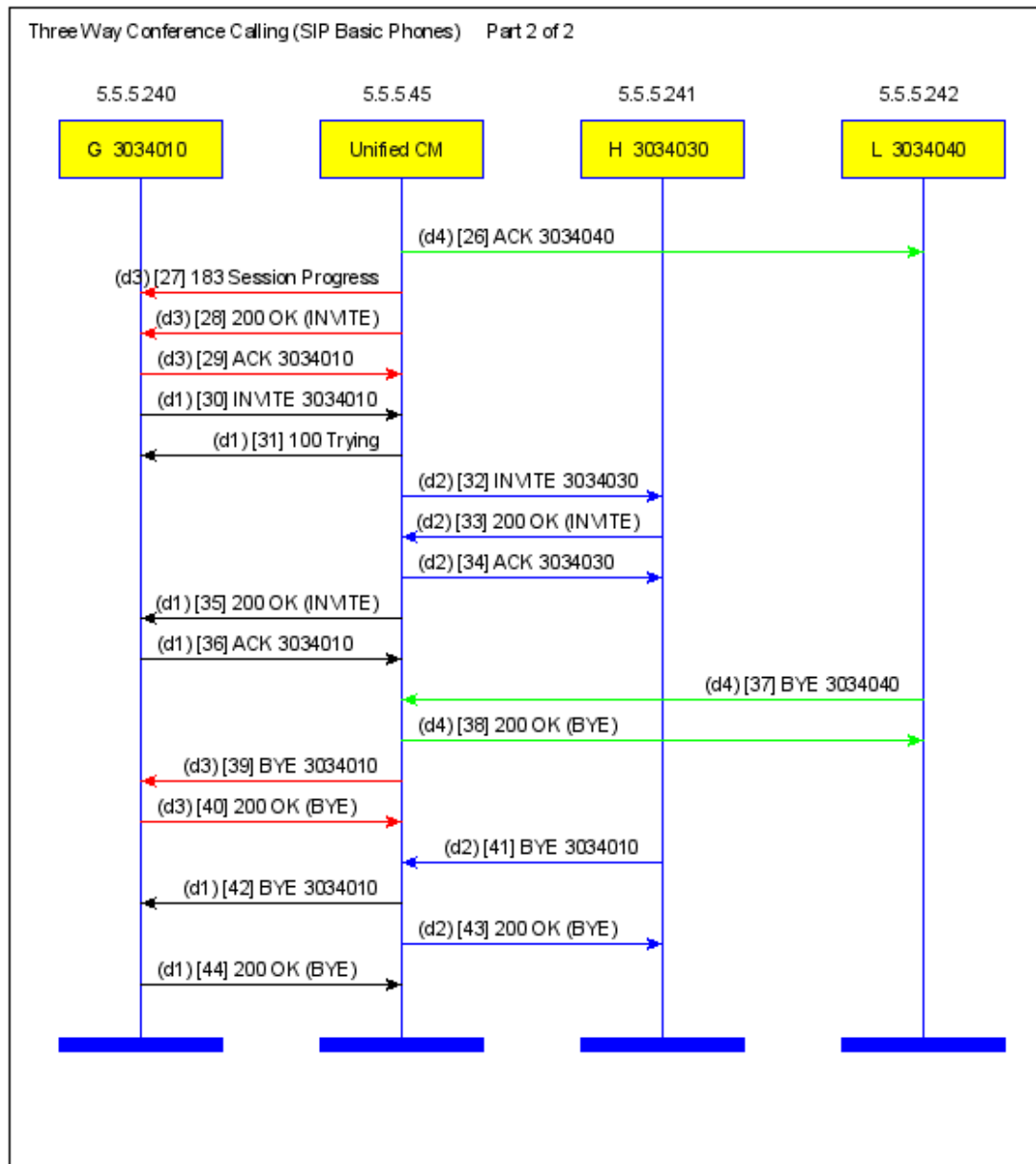
3034010, 3034030, and 3034040 are in three way conference

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=z9hG4bK44fc95c7
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 16 Jun 2008 17:32:08 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 21208 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 30956 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

Date: Mon, 16 Jun 2008 17:32:08 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK44fc95c7
 CSeq: 101 INVITE

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

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

Date: Mon, 16 Jun 2008 17:32:08 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb63237bc182
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb63237bc182
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
 To: <sip:3034030@5.5.5.241>
 Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
 Date: Mon, 16 Jun 2008 17:32:08 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=z9hG4bKb63237bc182
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6004819641fa7-1120fc64
 Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
 Date: Mon, 16 Jun 2008 17:32:08 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

Date: Mon, 16 Jun 2008 17:32:08 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK44fc95c7
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb63237bc182
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6004819641fa7-1120fc64
 Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
 Date: Mon, 16 Jun 2008 17:32:11 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 20597 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 20446 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

Date: Mon, 16 Jun 2008 17:32:08 GMT
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6004819641fa7-1120fc64
 Content-Type: application/sdp
 Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb64a7f3616
 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 5.5.5.240
 t=0 0
 m=audio 30956 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

Date: Mon, 16 Jun 2008 17:32:08 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK44fc95c7
 CSeq: 101 INVITE

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 20446 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

Date: Mon, 16 Jun 2008 17:32:08 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK44fc95c7
 CSeq: 101 INVITE

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 20446 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 5.5.5.240:5060;branch=z9hG4bK73453645
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
 Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 16 Jun 2008 17:32:13 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1bc7fdfb
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
 Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 16 Jun 2008 17:32:17 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 21208 1 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 30956 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

Date: Mon, 16 Jun 2008 17:32:17 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
 Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1bc7fdfb
 CSeq: 102 INVITE

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

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

Date: Mon, 16 Jun 2008 17:32:17 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 253
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6004819641fa7-1120fc64
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb6537012146
 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 5.5.5.240
 t=0 0
 m=audio 30956 RTP/AVP 0 8 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=rtpmap:8 PCMA/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=z9hG4bKb6537012146
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6004819641fa7-1120fc64
 Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
 Date: Mon, 16 Jun 2008 17:32:17 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 20597 1 IN IP4 5.5.5.241

```
s=SIP Call
t=0 0
m=audio 20446 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

```
Date: Mon, 16 Jun 2008 17:32:17 GMT
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6004819641fa7-1120fc64
Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb6663797d6a
CSeq: 102 ACK
Max-Forwards: 70
```

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

[17] SIP/2.0 200 OK

```
Date: Mon, 16 Jun 2008 17:32:17 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 217
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK1bc7fdfb
CSeq: 102 INVITE
```

```
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 20446 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK54ff8e0d
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
Max-Forwards: 70
Date: Mon, 16 Jun 2008 17:32:18 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=z9hG4bK085bcaff
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00462a03fabb-772f9f45
To: <sip:3034040@5.5.5.45>
Call-ID: 001a2f8d-f17f0007-340f68cd-280d5724@5.5.5.240
Max-Forwards: 70
Date: Mon, 16 Jun 2008 17:32:26 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 13858 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 30960 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

Date: Mon, 16 Jun 2008 17:32:26 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00462a03fabb-772f9f45
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2f8d-f17f0007-340f68cd-280d5724@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK085bcaff
 CSeq: 101 INVITE

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

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

Date: Mon, 16 Jun 2008 17:32:26 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003162
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Call-ID: 2e70b680-8561a3aa-b107-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb676834475d
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[22] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb676834475d
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003162
 To: <sip:3034040@5.5.5.242>
 Call-ID: 2e70b680-8561a3aa-b107-2d050505@5.5.5.45
 Date: Mon, 16 Jun 2008 17:32:26 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=z9hG4bKb676834475d
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003162
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e004467962ec5-681aded9
 Call-ID: 2e70b680-8561a3aa-b107-2d050505@5.5.5.45
 Date: Mon, 16 Jun 2008 17:32:26 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

Date: Mon, 16 Jun 2008 17:32:26 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00462a03fabb-772f9f45
 Allow-Events: presence

Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003161
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0007-340f68cd-280d5724@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK085bcaff
 CSeq: 101 INVITE

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

[25] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb676834475d
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003162
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e004467962ec5-681aded9
 Call-ID: 2e70b680-8561a3aa-b107-2d050505@5.5.5.45
 Date: Mon, 16 Jun 2008 17:32:29 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: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 9536 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 25972 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

Date: Mon, 16 Jun 2008 17:32:26 GMT
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003162
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e004467962ec5-681aded9
 Content-Type: application/sdp
 Call-ID: 2e70b680-8561a3aa-b107-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb6820c639b7
 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 5.5.5.240
 t=0 0
 m=audio 30960 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

Date: Mon, 16 Jun 2008 17:32:26 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00462a03fabb-772f9f45
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003161
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0007-340f68cd-280d5724@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK085bcaff
 CSeq: 101 INVITE

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 25972 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

```
Date: Mon, 16 Jun 2008 17:32:26 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00462a03fabb-772f9f45
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003161
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0007-340f68cd-280d5724@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK085bcaff
CSeq: 101 INVITE
```

```
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 25972 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7357d512
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00462a03fabb-772f9f45
To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003161
Call-ID: 001a2f8d-f17f0007-340f68cd-280d5724@5.5.5.240
Max-Forwards: 70
Date: Mon, 16 Jun 2008 17:32:30 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK23dfa04d
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
Max-Forwards: 70
Date: Mon, 16 Jun 2008 17:32:37 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 21208 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 30956 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

```
Date: Mon, 16 Jun 2008 17:32:36 GMT
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
```

```

Allow-Events: presence
Content-Length: 0
To: <sip:30340300@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK23dfa04d
CSeq: 103 INVITE

```

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

[32] INVITE sip:30340300@5.5.5.241:5060 SIP/2.0

```

Date: Mon, 16 Jun 2008 17:32:36 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 241
User-Agent: Cisco-CUCM7.0
To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d6004819641fa7-1120fc64
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb696b730b05
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 5.5.5.240
t=0 0
m=audio 30956 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=z9hG4bKb696b730b05
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d6004819641fa7-1120fc64
Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
Date: Mon, 16 Jun 2008 17:32:36 GMT
CSeq: 103 INVITE
Server: Cisco-CP7960G/7.5
Contact: <sip:30340300@5.5.5.241:5060>
Allow: ACK,BYE,CANCEL,INVITE,NOTIFY,OPTIONS,REFER,REGISTER,UPDATE
Remote-Party-ID: "3034030" <sip:30340300@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 20597 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 20446 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:30340300@5.5.5.241:5060 SIP/2.0

```

Date: Mon, 16 Jun 2008 17:32:36 GMT
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
Allow-Events: presence
Content-Length: 0
To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d6004819641fa7-1120fc64
Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb6a3743727c
CSeq: 103 ACK
Max-Forwards: 70

```

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

[35] SIP/2.0 200 OK

Date: Mon, 16 Jun 2008 17:32:36 GMT

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382

Allow-Events: presence

Supported: replaces

Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off

Content-Length: 205

To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159

Contact: <sip:3034010@5.5.5.45:5060>

Content-Type: application/sdp

Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK23dfa04d

CSeq: 103 INVITE

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 20446 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5670caaa

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382

To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159

Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240

Max-Forwards: 70

Date: Mon, 16 Jun 2008 17:32:37 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=z9hG4bK240ae474

From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e004467962ec5-681aded9

To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003162

Call-ID: 2e70b680-8561a3aa-b107-2d050505@5.5.5.45

Max-Forwards: 70

Date: Mon, 16 Jun 2008 17:32:47 GMT

CSeq: 101 BYE

User-Agent: Cisco-CP7960G/7.5

Content-Length: 0

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

[38] SIP/2.0 200 OK

Date: Mon, 16 Jun 2008 17:32:47 GMT

From: <sip:3034040@5.5.5.242>;tag=0018b93bb53e004467962ec5-681aded9

Content-Length: 0

To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003162

Call-ID: 2e70b680-8561a3aa-b107-2d050505@5.5.5.45

Via: SIP/2.0/UDP 5.5.5.242:5060;branch=z9hG4bK240ae474

CSeq: 101 BYE

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

[39] BYE sip:3034010@5.5.5.240:5060 SIP/2.0

Date: Mon, 16 Jun 2008 17:32:29 GMT

From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003161

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00462a03fabb-772f9f45

Call-ID: 001a2f8d-f17f0007-340f68cd-280d5724@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb6b779376e1

CSeq: 101 BYE

Max-Forwards: 70

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

[40] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb6b779376e1

From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003161

To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00462a03fabb-772f9f45

Call-ID: 001a2f8d-f17f0007-340f68cd-280d5724@5.5.5.240

Date: Mon, 16 Jun 2008 17:32:48 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=z9hG4bK3666ab47
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6004819641fa7-1120fc64
 To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
 Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Mon, 16 Jun 2008 17:32:53 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

Date: Mon, 16 Jun 2008 17:32:37 GMT
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
 Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb6c292cebf7
 CSeq: 101 BYE
 Max-Forwards: 70

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

[43] SIP/2.0 200 OK

Date: Mon, 16 Jun 2008 17:32:53 GMT
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6004819641fa7-1120fc64
 Content-Length: 0
 To: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003160
 Call-ID: 23b62180-8561a398-b105-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK3666ab47
 CSeq: 101 BYE

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

[44] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKb6c292cebf7
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003159
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00456fbf04ac-7917b382
 Call-ID: 001a2f8d-f17f0006-1f51c5e9-1c449e24@5.5.5.240
 Date: Mon, 16 Jun 2008 17:32:54 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

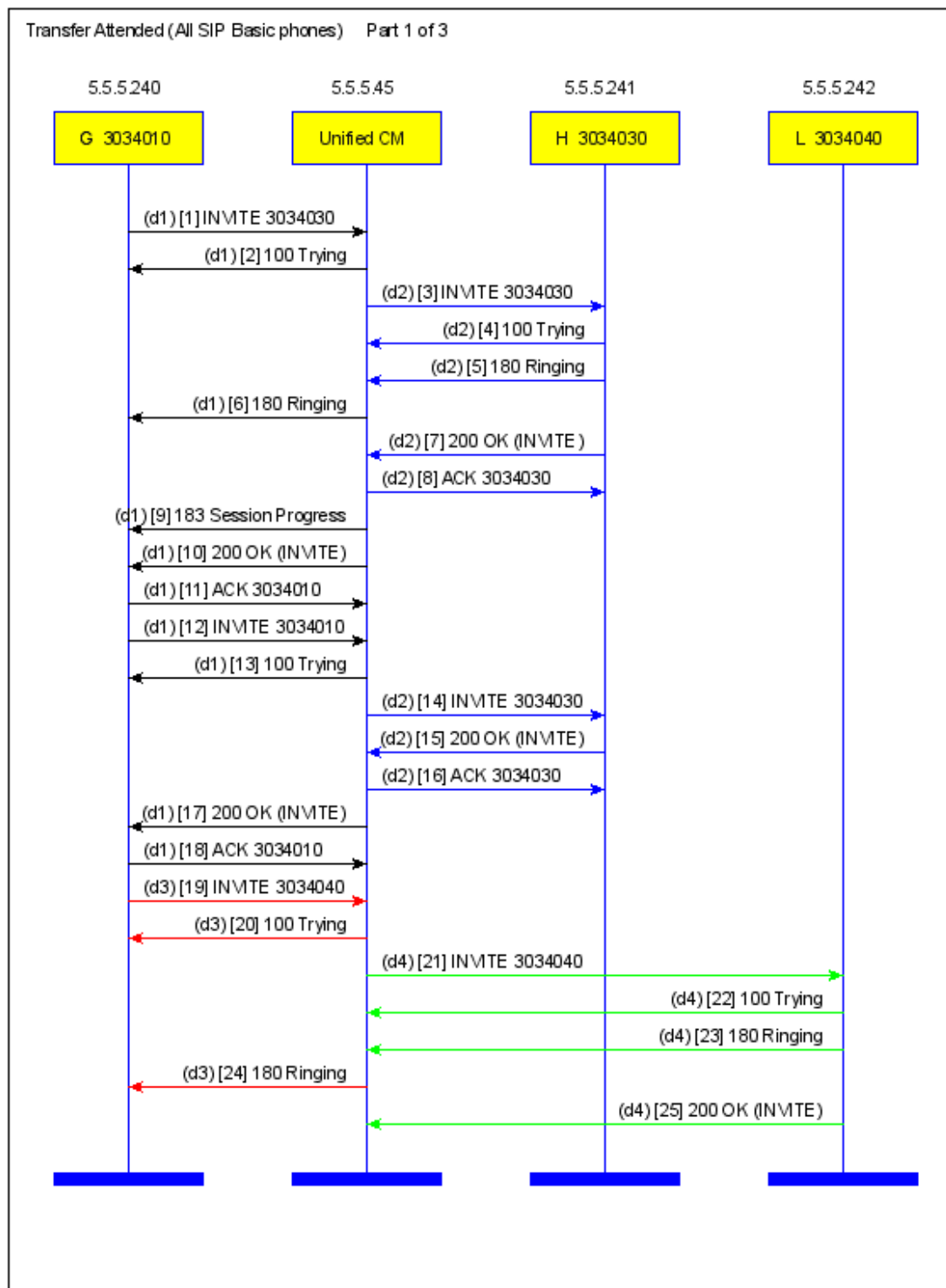
3034040 is ringing

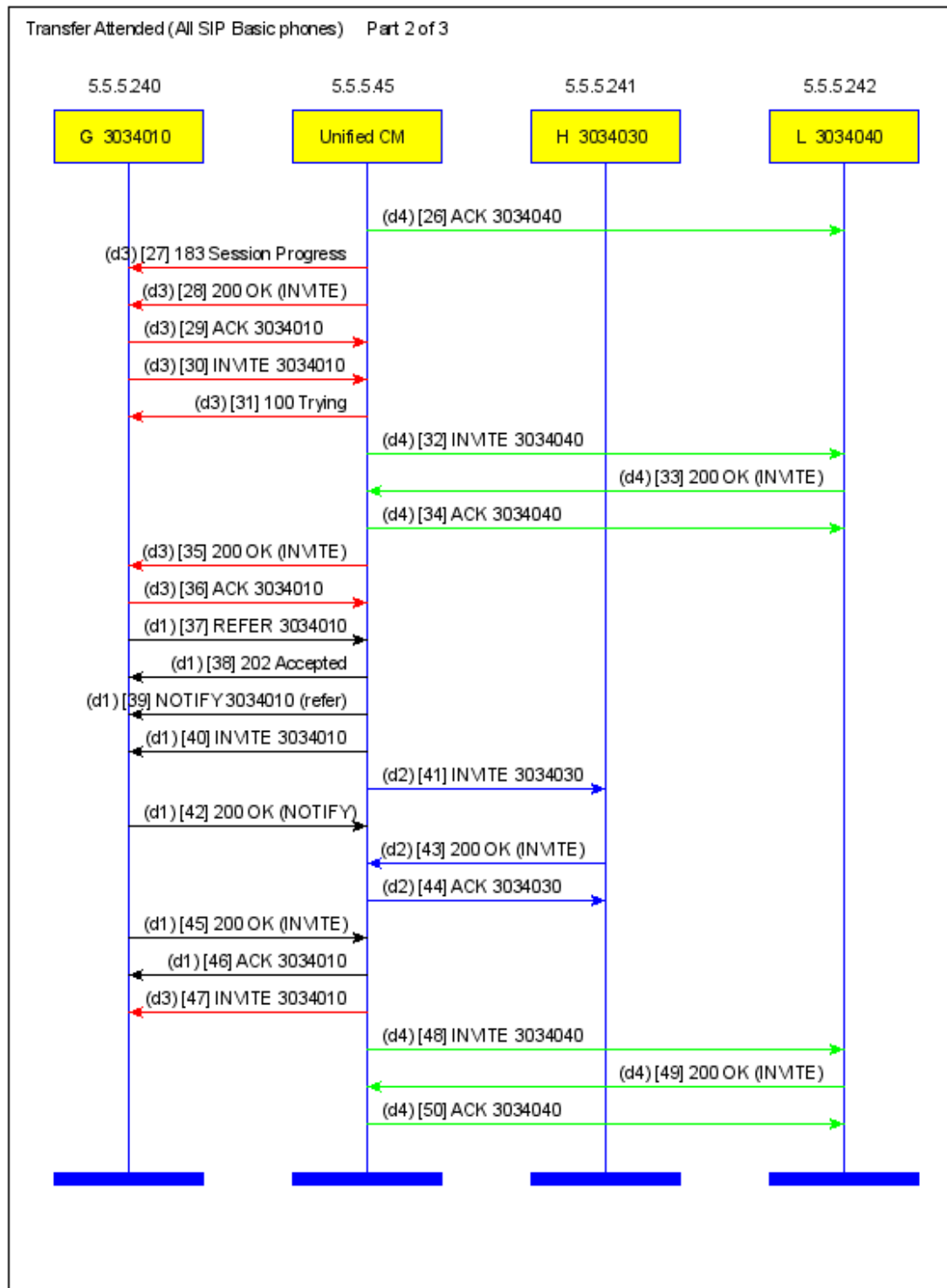
3034040 answers

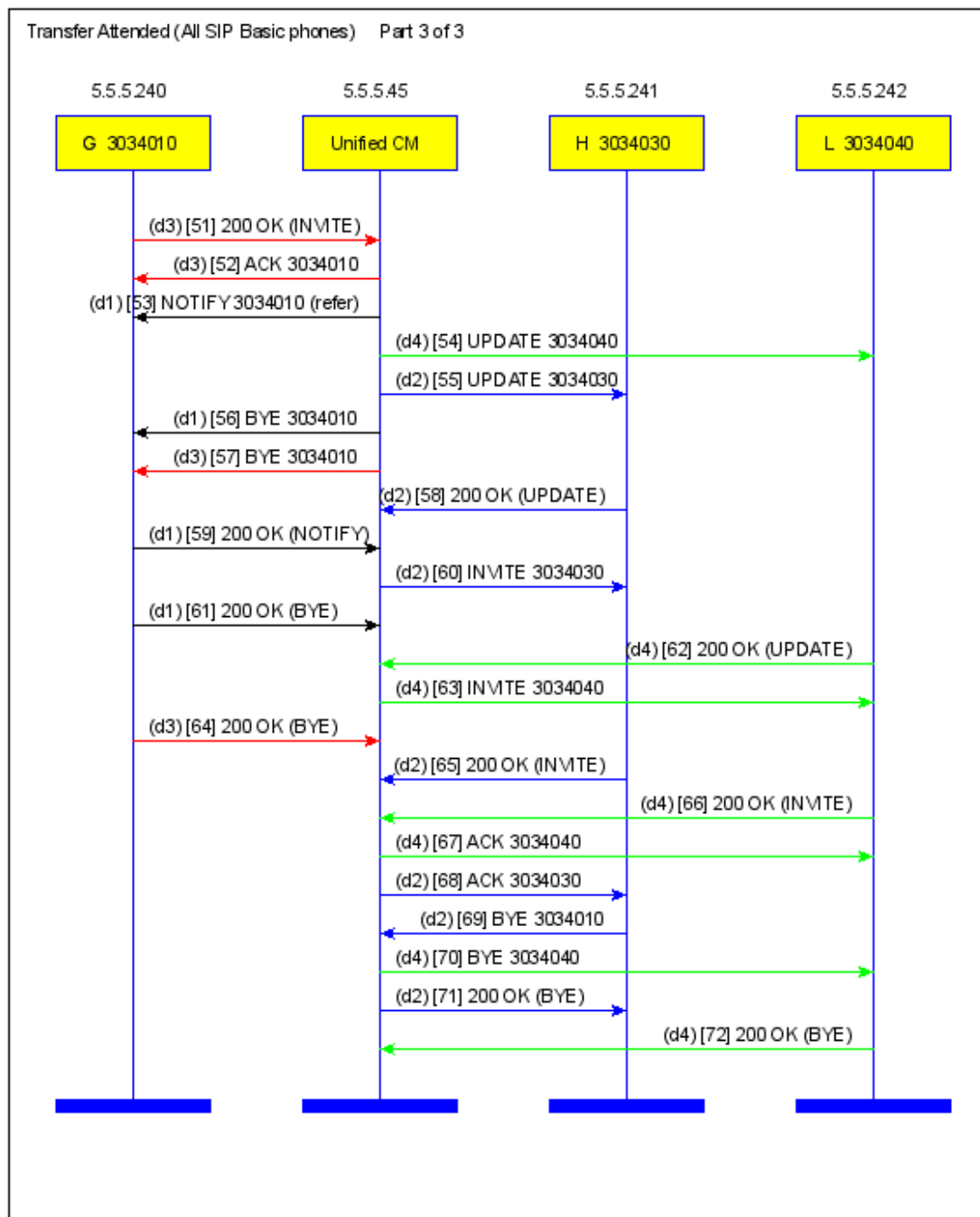
3034010 presses Transfer softkey to complete the transfer

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=z9hG4bK336162de
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:56:23 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 8666 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 18966 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

Date: Mon, 30 Jun 2008 15:56:24 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK336162de
 CSeq: 101 INVITE

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

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

Date: Mon, 30 Jun 2008 15:56:24 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5363c9783fa
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5363c9783fa
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
 To: <sip:3034030@5.5.5.241>
 Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:56:23 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=z9hG4bK5363c9783fa
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
 Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:56:23 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

Date: Mon, 30 Jun 2008 15:56:24 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK336162de
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5363c9783fa
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
 Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:56:24 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 27214 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 25502 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

Date: Mon, 30 Jun 2008 15:56:24 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
 Content-Type: application/sdp
 Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5371ae7613d
 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 5.5.5.240
 t=0 0
 m=audio 18966 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

Date: Mon, 30 Jun 2008 15:56:24 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK336162de
 CSeq: 101 INVITE

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 25502 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

Date: Mon, 30 Jun 2008 15:56:24 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK336162de
 CSeq: 101 INVITE

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 25502 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 5.5.5.240:5060;branch=z9hG4bK33e05bcb
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:56:25 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5d0fe2ce
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:56:31 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 8666 1 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 18966 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

```
Date: Mon, 30 Jun 2008 15:56:31 GMT
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5d0fe2ce
CSeq: 102 INVITE
```

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

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

```
Date: Mon, 30 Jun 2008 15:56:31 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 302
User-Agent: Cisco-CUCM7.0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK53869f1cda
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 5.5.5.240
t=0 0
m=audio 18966 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=fmtp:0
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=z9hG4bK53869f1cda
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:56:30 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 27214 1 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 25502 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

```
Date: Mon, 30 Jun 2008 15:56:31 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5397cdc4448
CSeq: 102 ACK
Max-Forwards: 70
```

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

[17] SIP/2.0 200 OK

```
Date: Mon, 30 Jun 2008 15:56:31 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 217
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK5d0fe2ce
CSeq: 102 INVITE
```

```
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 25502 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7bbcff35
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
Max-Forwards: 70
Date: Mon, 30 Jun 2008 15:56:31 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=z9hG4bK47c07a4d
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
To: <sip:3034040@5.5.5.45>
Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
Max-Forwards: 70
Date: Mon, 30 Jun 2008 15:56:35 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: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 1260 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 18970 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

Date: Mon, 30 Jun 2008 15:56:35 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK47c07a4d
 CSeq: 101 INVITE

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

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

Date: Mon, 30 Jun 2008 15:56:35 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK53a16c6942f
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[22] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK53a16c6942f
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 To: <sip:3034040@5.5.5.242>
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:56:35 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=z9hG4bK53a16c6942f
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:56:36 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

Date: Mon, 30 Jun 2008 15:56:35 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK47c07a4d
 CSeq: 101 INVITE

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

[25] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK53a16c6942f
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:56:38 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 9434 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 22740 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

Date: Mon, 30 Jun 2008 15:56:35 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
 Content-Type: application/sdp
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK53b45f4bf7b
 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 5.5.5.240
 t=0 0
 m=audio 18970 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

Date: Mon, 30 Jun 2008 15:56:35 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK47c07a4d
 CSeq: 101 INVITE

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 22740 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

```

Date: Mon, 30 Jun 2008 15:56:35 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK47c07a4d
CSeq: 101 INVITE

```

```

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 22740 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:3034010@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK17c2897d
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
Max-Forwards: 70
Date: Mon, 30 Jun 2008 15:56:38 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:3034010@5.5.5.45:5060 SIP/2.0

```

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK48b9851c
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
Max-Forwards: 70
Date: Mon, 30 Jun 2008 15:56:42 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 1260 1 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 18970 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

Date: Mon, 30 Jun 2008 15:56:43 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
 Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK48b9851c
 CSeq: 102 INVITE

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

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

Date: Mon, 30 Jun 2008 15:56:43 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 302
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK53c7e2e73a5
 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 5.5.5.240
t=0 0
m=audio 18970 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=fmtp:0
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=z9hG4bK53c7e2e73a5
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:56:43 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 9434 1 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 22740 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

Date: Mon, 30 Jun 2008 15:56:43 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859

Allow-Events: presence
 Content-Length: 0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK53d32b26981
 CSeq: 102 ACK
 Max-Forwards: 70

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

[35] SIP/2.0 200 OK

Date: Mon, 30 Jun 2008 15:56:43 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 217
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK48b9851c
 CSeq: 102 INVITE

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 22740 RTP/AVP 0 101
 a=rtpmap:0 PCMU/8000
 a=ptime:20
 a=recvnonly
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

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

[36] ACK sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3697e455
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
 Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:56:43 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0dbaa609
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:56:43 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-f17f0007-6d53d042-1010da14%405.5.5.240%3Bto-tag%3D898c2d5a-0602-448e-9575-fc5f217f87d0-25863858%3Bfrom-tag%3D001a2f8df17f00093adc34d5-4a07d6be>
 Referred-By: "3034010" <sip:3034010@5.5.5.45>

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

[38] SIP/2.0 202 Accepted

Date: Mon, 30 Jun 2008 15:56:43 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
 Contact: <sip:3034030@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0dbaa609
 CSeq: 103 REFER

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

[39] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0

Date: Mon, 30 Jun 2008 15:56:43 GMT

```

From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
Event: refer
Content-Length: 20
User-Agent: Cisco-CUCM7.0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
Contact: <sip:3034030@5.5.5.45:5060>
Content-Type: message/sipfrag;version=2.0
Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
Subscription-State: active;expires=60
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK53e5cf3ed2e
CSeq: 101 NOTIFY
Max-Forwards: 70

```

SIP/2.0 100 Trying

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

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

```

Date: Mon, 30 Jun 2008 15:56:43 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Cisco-Guid: 365808000-2257650216-41515-755303685
Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 215
User-Agent: Cisco-CUCM7.0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
Contact: <sip:3034030@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK53f3139975e
CSeq: 102 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 25502 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

```

Date: Mon, 30 Jun 2008 15:56:43 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 300
User-Agent: Cisco-CUCM7.0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK540bd7e4a5
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 18966 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=fmtp:0
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=z9hG4bK53e5cf3ed2e
From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
Date: Mon, 30 Jun 2008 15:56:43 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=z9hG4bK540bd7e4a5
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:56:42 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 27214 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 25502 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

```

Date: Mon, 30 Jun 2008 15:56:43 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5413cd15eb3
CSeq: 103 ACK
Max-Forwards: 70

```

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

[45] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK53f3139975e
From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
Date: Mon, 30 Jun 2008 15:56:43 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 8666 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 18966 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
Date: Mon, 30 Jun 2008 15:56:43 GMT
From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
Allow-Events: presence
Content-Length: 0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5423de57f6c
CSeq: 102 ACK
Max-Forwards: 70

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

[47] INVITE sip:3034010@5.5.5.240:5060 SIP/2.0
Date: Mon, 30 Jun 2008 15:56:44 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Cisco-Guid: 475808000-2257650227-41517-755303685
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 215
User-Agent: Cisco-CUCM7.0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
Contact: <sip:3034040@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54369aeed2e
CSeq: 101 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 22740 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: [\[prev\]](#)[\[next\]](#)

[48] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0
Date: Mon, 30 Jun 2008 15:56:44 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 300
User-Agent: Cisco-CUCM7.0
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5442f567150
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 18970 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=fmtp:0
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=z9hG4bK5442f567150
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:56:44 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 9434 2 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 22740 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: [\[prev\]](#)[\[next\]](#)

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

```

Date: Mon, 30 Jun 2008 15:56:44 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
Allow-Events: presence
Content-Length: 0
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5456ad93b3
CSeq: 103 ACK
Max-Forwards: 70

```

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

[51] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54369aeed2e
From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
Date: Mon, 30 Jun 2008 15:56:44 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: 198
Content-Type: application/sdp
Content-Disposition: session;handling=optional

```

```

v=0
o=Cisco-SIPUA 1260 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 18970 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: [\[prev\]](#)[\[next\]](#)

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

```

Date: Mon, 30 Jun 2008 15:56:44 GMT
From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
Allow-Events: presence
Content-Length: 0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be

```

Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5464e60e94c
 CSeq: 101 ACK
 Max-Forwards: 70

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

[53] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0
 Date: Mon, 30 Jun 2008 15:56:44 GMT
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
 Event: refer
 Content-Length: 16
 User-Agent: Cisco-CUCM7.0
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 Contact: <sip:3034030@5.5.5.45:5060>
 Content-Type: message/sipfrag;version=2.0
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Subscription-State: terminated;reason=noresource
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54762a21b56
 CSeq: 103 NOTIFY
 Max-Forwards: 70

SIP/2.0 200 OK

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

[54] UPDATE sip:3034040@5.5.5.242:5060 SIP/2.0
 Date: Mon, 30 Jun 2008 15:56:44 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK548d023f48
 CSeq: 104 UPDATE
 Max-Forwards: 70

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

[55] UPDATE sip:3034030@5.5.5.241:5060 SIP/2.0
 Date: Mon, 30 Jun 2008 15:56:43 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK549165f3577
 CSeq: 104 UPDATE
 Max-Forwards: 70

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

[56] BYE sip:3034010@5.5.5.240:5060 SIP/2.0
 Date: Mon, 30 Jun 2008 15:56:43 GMT
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54a15905ec7
 CSeq: 104 BYE
 Max-Forwards: 70

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

[57] BYE sip:3034010@5.5.5.240:5060 SIP/2.0
 Date: Mon, 30 Jun 2008 15:56:44 GMT
 From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
 Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54b2f433602
 CSeq: 102 BYE
 Max-Forwards: 70

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

[58] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK549165f3577
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640

Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:56:43 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 27214 2 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 25502 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: [\[prev\]](#)[\[next\]](#)

[59] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54762a21b56
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Date: Mon, 30 Jun 2008 15:56:44 GMT
 CSeq: 103 NOTIFY
 Content-Length: 0

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

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

Date: Mon, 30 Jun 2008 15:56:44 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54c494b5f2a
 CSeq: 105 INVITE
 Max-Forwards: 70

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

[61] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54a15905ec7
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863856
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000878dfb5f3-3d702022
 Call-ID: 001a2f8d-f17f0006-7ced7ecf-13865b10@5.5.5.240
 Date: Mon, 30 Jun 2008 15:56:44 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=z9hG4bK548d023f48
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:56:44 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: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 9434 2 IN IP4 5.5.5.242

```
s=SIP Call
t=0 0
m=audio 22740 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: [\[prev\]](#)[\[next\]](#)

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

```
Date: Mon, 30 Jun 2008 15:56:44 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54d33e32aa6
CSeq: 105 INVITE
Max-Forwards: 70
```

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

[64] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54b2f433602
From: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863858
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00093adc34d5-4a07d6be
Call-ID: 001a2f8d-f17f0007-6d53d042-1010da14@5.5.5.240
Date: Mon, 30 Jun 2008 15:56:44 GMT
CSeq: 102 BYE
Server: Cisco-CP7960G/7.5
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=z9hG4bK54c494b5f2a
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:56:43 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 27214 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 25502 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=z9hG4bK54d33e32aa6
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:56:45 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: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 9434 2 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 22740 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
 Date: Mon, 30 Jun 2008 15:56:44 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
 Content-Type: application/sdp
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54e3b0efcea
 CSeq: 105 ACK
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.241
 t=0 0
 m=audio 25502 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
 Date: Mon, 30 Jun 2008 15:56:44 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
 Content-Type: application/sdp
 Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK54f35c9ab75
 CSeq: 105 ACK
 Max-Forwards: 70

v=0
 o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
 s=SIP Call
 c=IN IP4 5.5.5.242
 t=0 0
 m=audio 22740 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=z9hG4bK65996aba
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
 To: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
 Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:56:49 GMT
 CSeq: 101 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[70] BYE sip:30340400@5.5.5.242:5060 SIP/2.0
 Date: Mon, 30 Jun 2008 15:56:44 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:30340400@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK55044938ff5
 CSeq: 106 BYE
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[71] SIP/2.0 200 OK
 Date: Mon, 30 Jun 2008 15:56:50 GMT
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600081587095b-15c48640
 Content-Length: 0
 To: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863857
 Call-ID: 15cdc980-86910228-a22c-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK65996aba
 CSeq: 101 BYE

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[72] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK55044938ff5
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863859
 To: <sip:30340400@5.5.5.242>;tag=0018b93bb53e00063c0c839d-41f0f1e4
 Call-ID: 1c5c4100-86910233-a22e-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:56:50 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

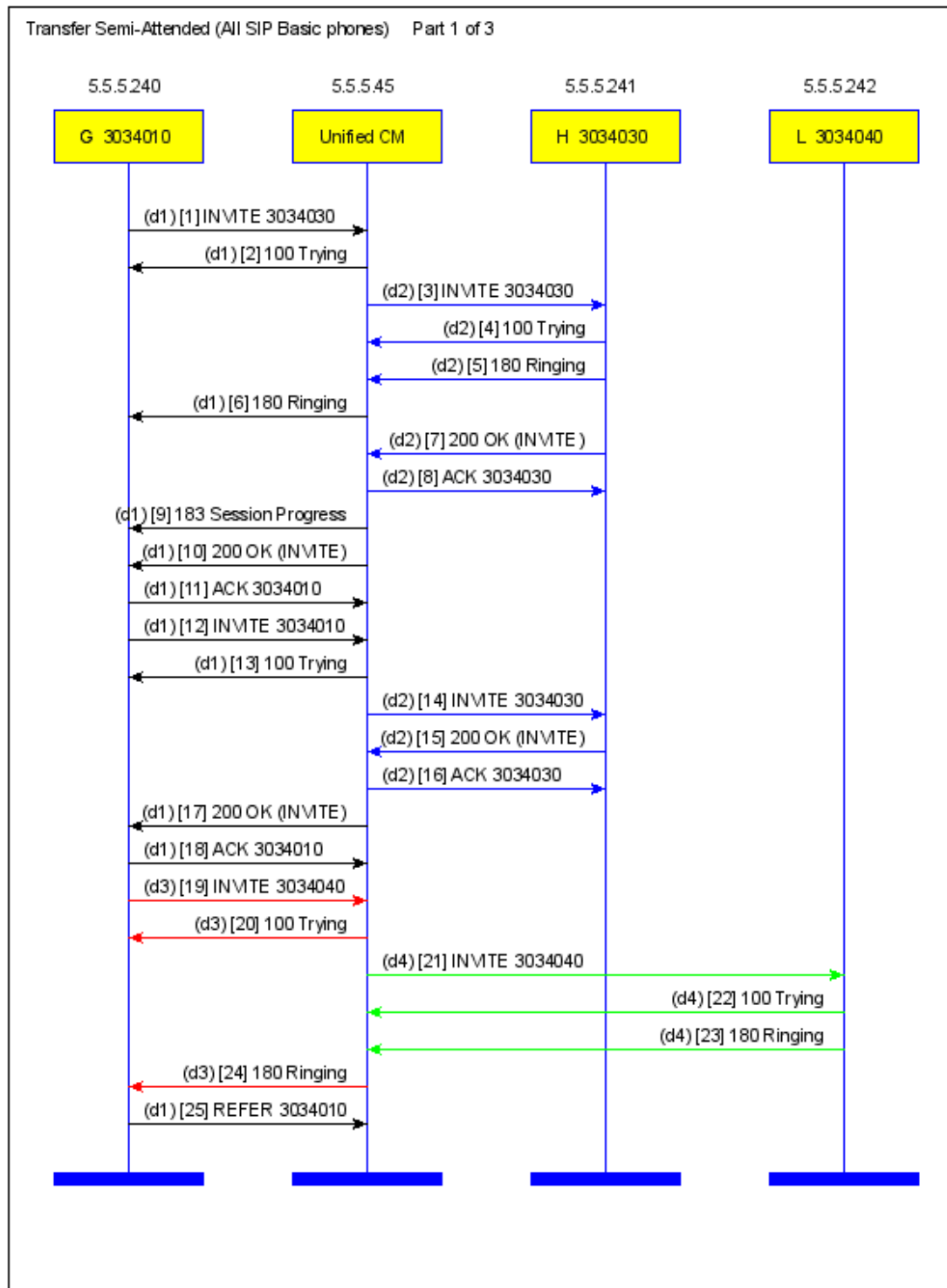
3034040 is ringing

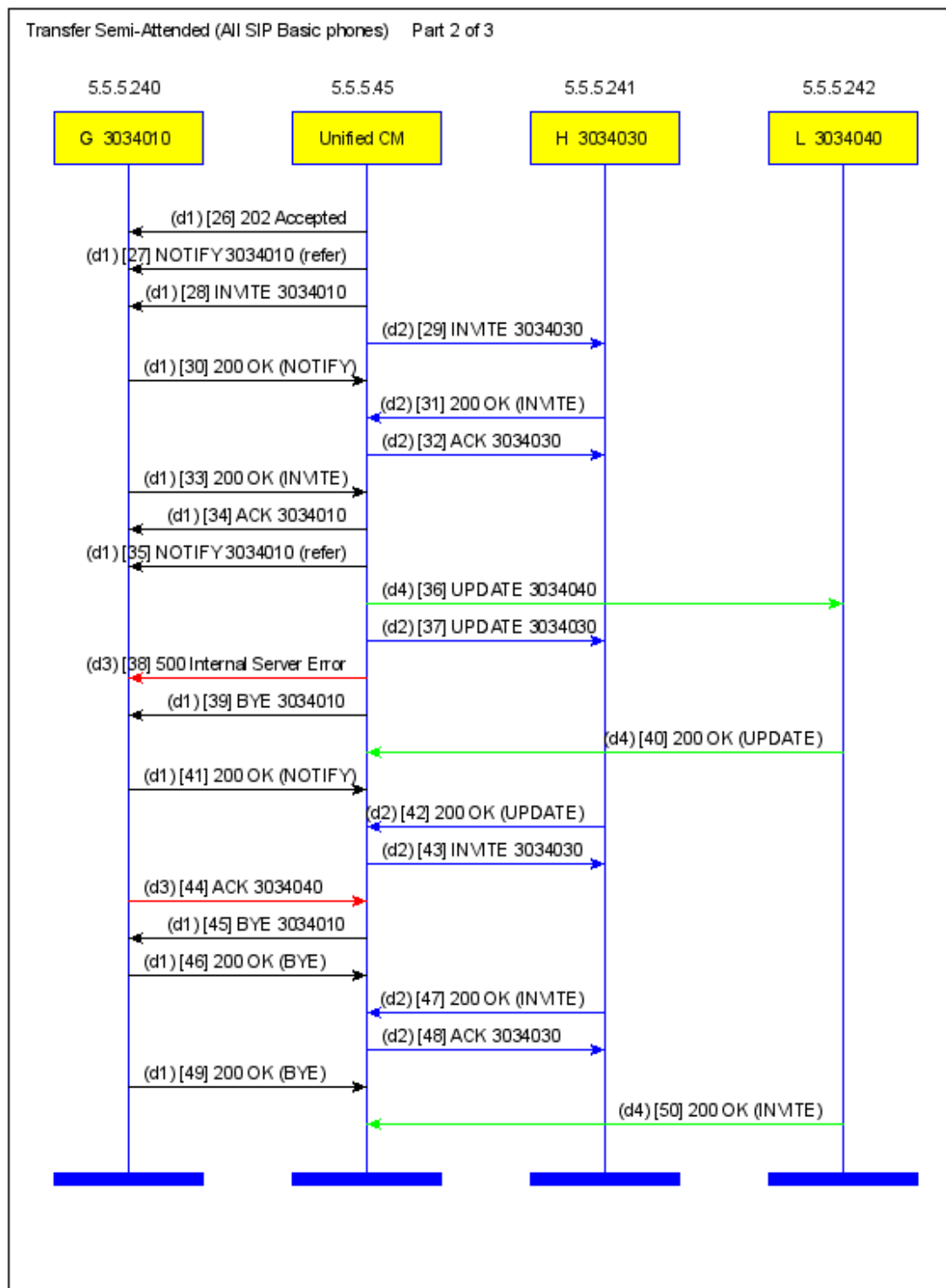
3034010 presses Transfer softkey to complete the transfer

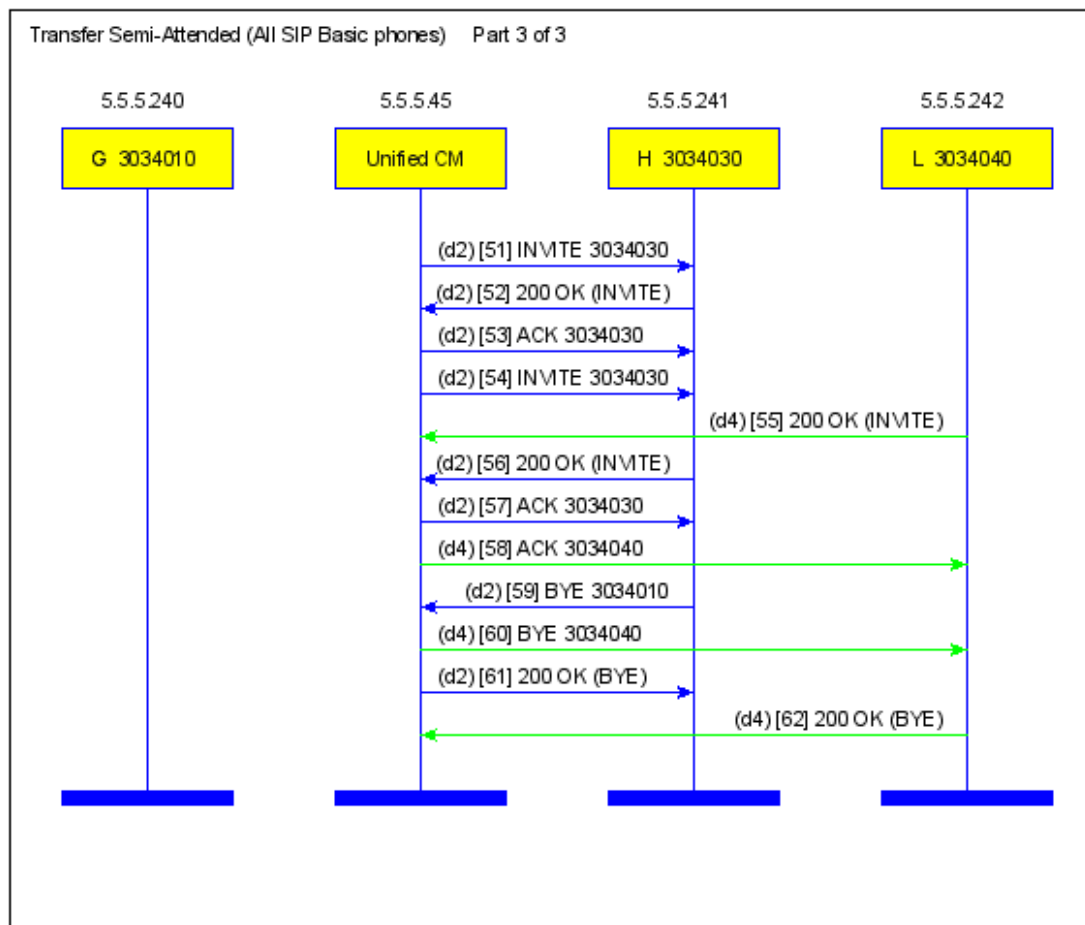
3034040 answers

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=z9hG4bK2257e856
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:15:27 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 24252 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 30092 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

Date: Mon, 30 Jun 2008 15:15:28 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2257e856
 CSeq: 101 INVITE

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

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

Date: Mon, 30 Jun 2008 15:15:28 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4f710c1ca9e
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4f710c1ca9e
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 To: <sip:3034030@5.5.5.241>
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:15:27 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=z9hG4bK4f710c1ca9e
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:15:27 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

Date: Mon, 30 Jun 2008 15:15:28 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2257e856
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4f710c1ca9e
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:15:29 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 24307 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 19372 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

Date: Mon, 30 Jun 2008 15:15:28 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
 Content-Type: application/sdp
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4f86a1554ac
 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 5.5.5.240
 t=0 0
 m=audio 30092 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

Date: Mon, 30 Jun 2008 15:15:28 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2257e856
 CSeq: 101 INVITE

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 19372 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

Date: Mon, 30 Jun 2008 15:15:28 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2257e856
 CSeq: 101 INVITE

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 19372 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 5.5.5.240:5060;branch=z9hG4bK5df40ef8
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:15:30 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3cdae362
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:15:35 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 24252 1 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 30092 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

```
Date: Mon, 30 Jun 2008 15:15:36 GMT
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3cdae362
CSeq: 102 INVITE
```

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

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

```
Date: Mon, 30 Jun 2008 15:15:36 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 302
User-Agent: Cisco-CUCM7.0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4f962c88a4f
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 5.5.5.240
t=0 0
m=audio 30092 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=fmtp:0
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=z9hG4bK4f962c88a4f
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:15:35 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 24307 1 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 19372 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

```
Date: Mon, 30 Jun 2008 15:15:36 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4fa5af552d3
CSeq: 102 ACK
Max-Forwards: 70
```

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

[17] SIP/2.0 200 OK

```
Date: Mon, 30 Jun 2008 15:15:36 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 217
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK3cdae362
CSeq: 102 INVITE
```

```
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 19372 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK51cd201a
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
Max-Forwards: 70
Date: Mon, 30 Jun 2008 15:15:36 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=z9hG4bK66d7b0b8
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000866b9e1bb-7db78e77
To: <sip:3034040@5.5.5.45>
Call-ID: 001a2f8d-f17f0005-035670a0-10400e67@5.5.5.240
Max-Forwards: 70
Date: Mon, 30 Jun 2008 15:15:41 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 14410 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 30096 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

Date: Mon, 30 Jun 2008 15:15:41 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000866b9e1bb-7db78e77
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>
 Call-ID: 001a2f8d-f17f0005-035670a0-10400e67@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK66d7b0b8
 CSeq: 101 INVITE

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

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

Date: Mon, 30 Jun 2008 15:15:41 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863847
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Call-ID: 65a99200-8681f89d-a1c6-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4fb6a1097a8
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[22] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4fb6a1097a8
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863847
 To: <sip:3034040@5.5.5.242>
 Call-ID: 65a99200-8681f89d-a1c6-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:15:42 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=z9hG4bK4fb6a1097a8
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863847
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00071bc50c27-7b1c6d81
 Call-ID: 65a99200-8681f89d-a1c6-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:15:42 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

Date: Mon, 30 Jun 2008 15:15:41 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000866b9e1bb-7db78e77
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863846
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0005-035670a0-10400e67@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK66d7b0b8
 CSeq: 101 INVITE

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

[25] REFER sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK66aca5b4
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:15:48 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-f17f0005-035670a0-10400e67%405.5.5.240%3Bto-tag%3D898c2d5a-0602-448e-9575-fc5f217f87d0-25863846%3Bfrom-tag%3D001a2f8df17f000866b9e1bb-7db78e77>
 Referred-By: "3034010" <sip:3034010@5.5.5.45>

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

[26] SIP/2.0 202 Accepted

Date: Mon, 30 Jun 2008 15:15:48 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 Contact: <sip:3034030@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK66aca5b4
 CSeq: 103 REFER

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

[27] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0

Date: Mon, 30 Jun 2008 15:15:49 GMT
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 Event: refer
 Content-Length: 20
 User-Agent: Cisco-CUCM7.0
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 Contact: <sip:3034030@5.5.5.45:5060>
 Content-Type: message/sipfrag;version=2.0
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Subscription-State: active;expires=59
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4fc482fa46e
 CSeq: 101 NOTIFY
 Max-Forwards: 70

SIP/2.0 100 Trying

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

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

Date: Mon, 30 Jun 2008 15:15:49 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Cisco-Guid: 1575611776-2256664720-41411-755303685
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 215
 User-Agent: Cisco-CUCM7.0
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4fd3c3df569
 CSeq: 102 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 19372 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
 Date: Mon, 30 Jun 2008 15:15:49 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 300
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4fea96b740
 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 30092 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=fmtp:0
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=z9hG4bK4fc482fa46e
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Date: Mon, 30 Jun 2008 15:15:48 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=z9hG4bK4fea96b740
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:15:48 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 24307 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 19372 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

```
Date: Mon, 30 Jun 2008 15:15:49 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4ff451ffa58
CSeq: 103 ACK
Max-Forwards: 70
```

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

[33] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4fd3c3df569
From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
Date: Mon, 30 Jun 2008 15:15:49 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 24252 2 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 30092 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

```
Date: Mon, 30 Jun 2008 15:15:49 GMT
From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
Allow-Events: presence
Content-Length: 0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5003746708a
CSeq: 102 ACK
Max-Forwards: 70
```

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

[35] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0

```
Date: Mon, 30 Jun 2008 15:15:49 GMT
From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
Event: refer
Content-Length: 16
User-Agent: Cisco-CUCM7.0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
Contact: <sip:3034030@5.5.5.45:5060>
Content-Type: message/sipfrag;version=2.0
Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
Subscription-State: terminated;reason=noresource
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK50138a6d5d7
CSeq: 103 NOTIFY
Max-Forwards: 70
```

SIP/2.0 200 OK

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

[36] UPDATE sip:3034040@5.5.5.242:5060 SIP/2.0

```
Date: Mon, 30 Jun 2008 15:15:41 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863847
Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 0
```

User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00071bc50c27-7b1c6d81
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 65a99200-8681f89d-a1c6-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK502543a30c8
 CSeq: 102 UPDATE
 Max-Forwards: 70

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

[37] UPDATE sip:3034030@5.5.5.241:5060 SIP/2.0

Date: Mon, 30 Jun 2008 15:15:49 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5031b463d98
 CSeq: 104 UPDATE
 Max-Forwards: 70

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

[38] SIP/2.0 500 Internal Server Error

Date: Mon, 30 Jun 2008 15:15:41 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000866b9e1bb-7db78e77
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863846
 Call-ID: 001a2f8d-f17f0005-035670a0-10400e67@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK66d7b0b8
 CSeq: 101 INVITE

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

[39] BYE sip:3034010@5.5.5.240:5060 SIP/2.0

Date: Mon, 30 Jun 2008 15:15:49 GMT
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK50439dd3aa4
 CSeq: 104 BYE
 Max-Forwards: 70

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

[40] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK502543a30c8
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863847
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00071bc50c27-7b1c6d81
 Call-ID: 65a99200-8681f89d-a1c6-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:15:49 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=z9hG4bK50138a6d5d7
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Date: Mon, 30 Jun 2008 15:15:49 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=z9hG4bK5031b463d98
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:15:48 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 24307 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 19372 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

Date: Mon, 30 Jun 2008 15:15:49 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK50540000c39
CSeq: 105 INVITE
Max-Forwards: 70

[\[diagram\]](#) 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=z9hG4bK66d7b0b8
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000866b9e1bb-7db78e77
To: <sip:3034040@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863846
Call-ID: 001a2f8d-f17f0005-035670a0-10400e67@5.5.5.240
Date: Mon, 30 Jun 2008 15:15:49 GMT
CSeq: 101 ACK
Content-Length: 0

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

[45] BYE sip:3034010@5.5.5.240:5060 SIP/2.0

Date: Mon, 30 Jun 2008 15:15:49 GMT
From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK50439dd3aa4
CSeq: 104 BYE
Max-Forwards: 70

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

[46] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK50439dd3aa4
From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
Date: Mon, 30 Jun 2008 15:15:49 GMT
CSeq: 104 BYE
Server: Cisco-CP7960G/7.5
Content-Length: 0

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

[47] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK50540000c39
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:15:48 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 24307 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 19372 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: [\[prev\]](#)[\[next\]](#)

[48] ACK sip:30340300@5.5.5.241:5060 SIP/2.0

Date: Mon, 30 Jun 2008 15:15:49 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 Allow-Events: presence
 Content-Length: 215
 To: <sip:30340300@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
 Content-Type: application/sdp
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK50669e4792d
 CSeq: 105 ACK
 Max-Forwards: 70

```
v=0
o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
s=SIP Call
c=IN IP4 5.5.5.45
t=0 0
m=audio 4000 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=sendonly
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=z9hG4bK50439dd3aa4
 From: <sip:30340300@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863844
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000739fb279d-4c7a3941
 Call-ID: 001a2f8d-f17f0004-75160748-1373ea94@5.5.5.240
 Date: Mon, 30 Jun 2008 15:15:49 GMT
 CSeq: 104 BYE
 Server: Cisco-CP7960G/7.5
 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=z9hG4bK4fb6a1097a8
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863847
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00071bc50c27-7b1c6d81
 Call-ID: 65a99200-8681f89d-a1c6-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:15:53 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 19587 0 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 25722 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=rtptime:101 telephone-event/8000
a=fmtp:101 0-15
a=sendrecv
```

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

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

```
Date: Mon, 30 Jun 2008 15:15:53 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 214
User-Agent: Cisco-CUCM7.0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK507451585ff
CSeq: 106 INVITE
Max-Forwards: 70
```

```
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 0 101
a=rtptime:0 PCMU/8000
a=ptime:20
a=inactive
a=rtptime:101 telephone-event/8000
a=fmtp:101 0-15
```

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

[52] SIP/2.0 200 OK

```
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK507451585ff
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:15:52 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: 199
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 24307 4 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 19372 RTP/AVP 0 101
c=IN IP4 5.5.5.241
a=rtptime:0 PCMU/8000
a=rtptime:101 telephone-event/8000
a=fmtp:101 0-15
a=inactive
```

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

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

```
Date: Mon, 30 Jun 2008 15:15:53 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5085e850335
CSeq: 106 ACK
Max-Forwards: 70
```

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

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

```
Date: Mon, 30 Jun 2008 15:15:53 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
```

```

From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5091cea6acc
CSeq: 107 INVITE
Max-Forwards: 70

```

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

[55] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK4fb6a1097a8
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863847
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00071bc50c27-7b1c6d81
Call-ID: 65a99200-8681f89d-a1c6-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:15:53 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 19587 0 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 25722 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: [\[prev\]](#)[\[next\]](#)

[56] SIP/2.0 200 OK

```

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5091cea6acc
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:15:52 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 24307 4 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 19372 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: [\[prev\]](#)[\[next\]](#)

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

```

Date: Mon, 30 Jun 2008 15:15:53 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
Allow-Events: presence

```


Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
 Content-Type: application/sdp
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK50a11a40afa
 CSeq: 107 ACK
 Max-Forwards: 70

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 25722 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: [\[prev\]](#)[\[next\]](#)
[58] ACK sip:3034040@5.5.5.242:5060 SIP/2.0
 Date: Mon, 30 Jun 2008 15:15:41 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863847
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00071bc50c27-7b1c6d81
 Content-Type: application/sdp
 Call-ID: 65a99200-8681f89d-a1c6-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK50b3e6bc347
 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 5.5.5.241
 t=0 0
 m=audio 19372 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: [\[prev\]](#)[\[next\]](#)
[59] BYE sip:3034010@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK0ffd06a0
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
 To: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:15:58 GMT
 CSeq: 101 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[60] BYE sip:3034040@5.5.5.242:5060 SIP/2.0
 Date: Mon, 30 Jun 2008 15:15:41 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863847
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00071bc50c27-7b1c6d81
 Call-ID: 65a99200-8681f89d-a1c6-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK50c7911cb48
 CSeq: 103 BYE
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[61] SIP/2.0 200 OK
 Date: Mon, 30 Jun 2008 15:15:59 GMT
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000936a50212-7b7c1e2f
 Content-Length: 0
 To: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863845
 Call-ID: 5de9ed80-8681f890-a1c4-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK0ffd06a0
 CSeq: 101 BYE

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[62] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK50c7911cb48

From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863847
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e00071bc50c27-7b1c6d81
Call-ID: 65a99200-8681f89d-a1c6-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:15:59 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

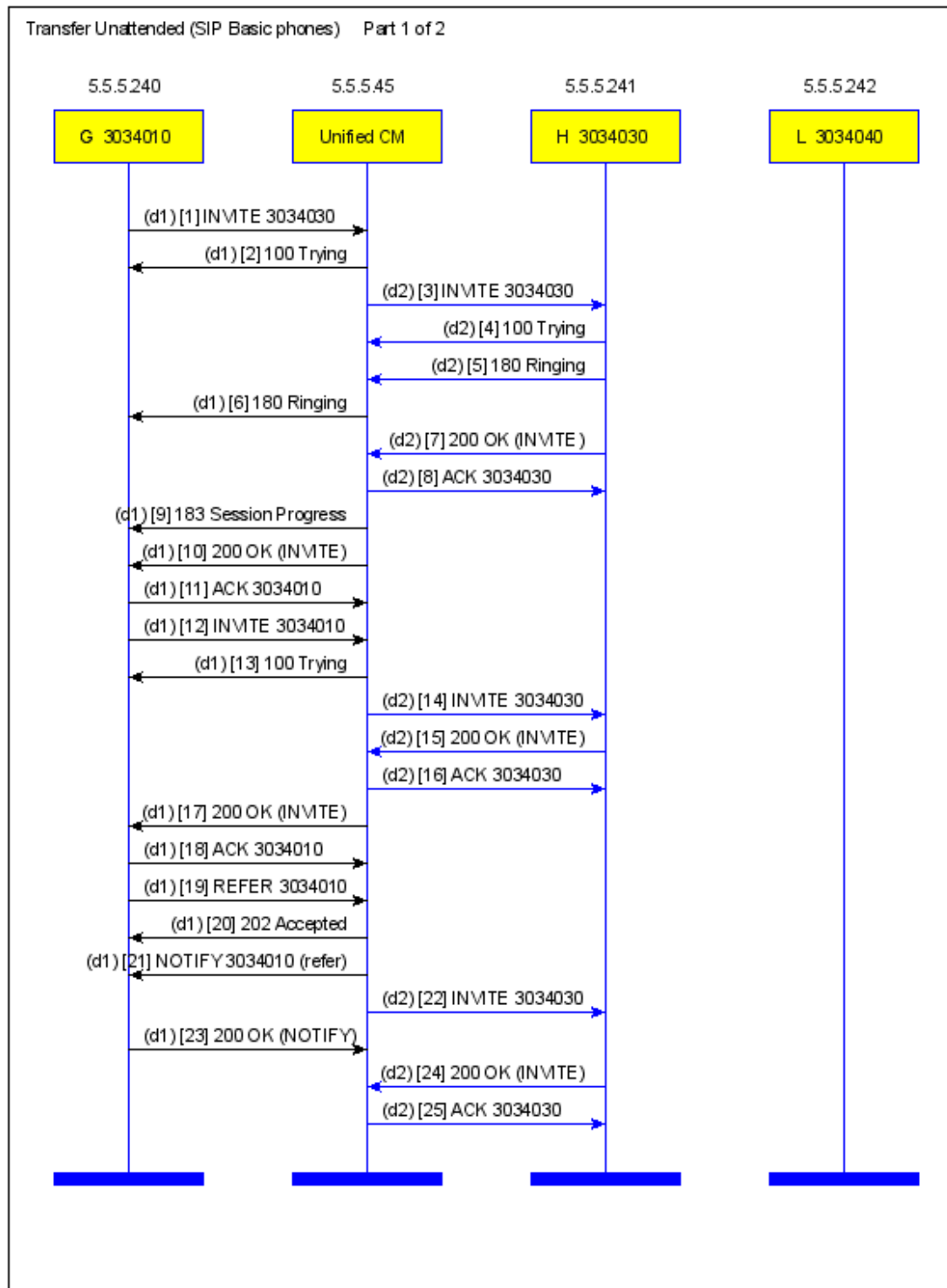
Call is cleared from 3034010

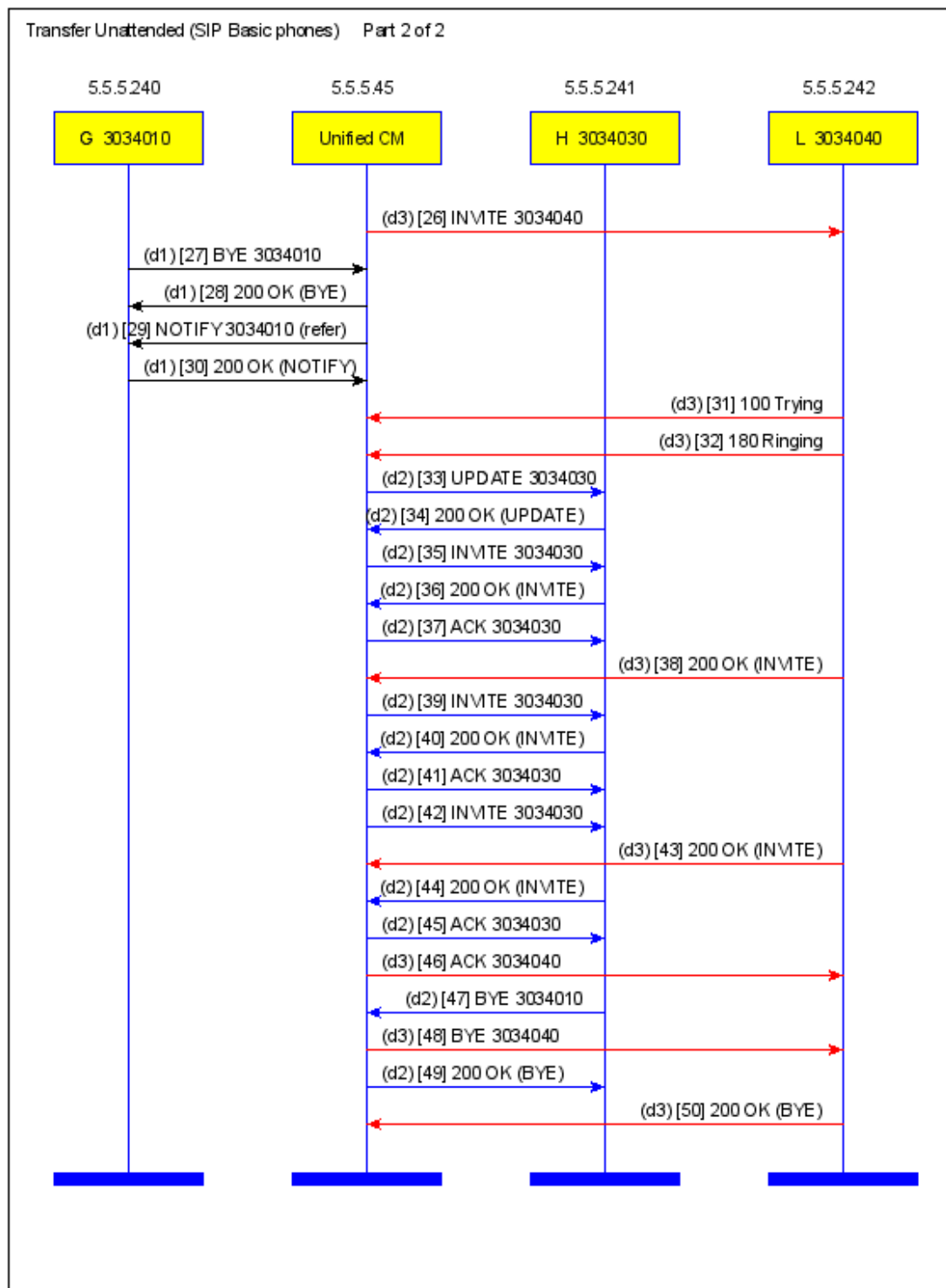
3034040 is ringing

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=z9hG4bK7c10cc04
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:39:39 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 10270 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 25820 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

Date: Mon, 30 Jun 2008 15:39:41 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7c10cc04
 CSeq: 101 INVITE

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

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

Date: Mon, 30 Jun 2008 15:39:41 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5185bcebf84
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5185bcebf84
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 To: <sip:3034030@5.5.5.241>
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:39:40 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
 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=z9hG4bK5185bcebf84
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:39:40 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
 Content-Length: 0

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

[6] SIP/2.0 180 Ringing

Date: Mon, 30 Jun 2008 15:39:41 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7c10cc04
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5185bcebf84
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:39:42 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 18594 0 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 20564 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

Date: Mon, 30 Jun 2008 15:39:41 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 Content-Type: application/sdp
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5193a17231d
 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 5.5.5.240
t=0 0
m=audio 25820 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

Date: Mon, 30 Jun 2008 15:39:41 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7c10cc04
 CSeq: 101 INVITE

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 20564 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

Date: Mon, 30 Jun 2008 15:39:41 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7c10cc04
 CSeq: 101 INVITE

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 20564 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 5.5.5.240:5060;branch=z9hG4bK6deda971
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:39:42 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK663bd46b
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:39:48 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 10270 1 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 25820 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

```
Date: Mon, 30 Jun 2008 15:39:49 GMT
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK663bd46b
CSeq: 102 INVITE
```

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

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

```
Date: Mon, 30 Jun 2008 15:39:49 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 302
User-Agent: Cisco-CUCM7.0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK51a14c88834
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 5.5.5.240
t=0 0
m=audio 25820 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=fmtp:0
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=z9hG4bK51a14c88834
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:39:48 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 18594 1 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 20564 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

```
Date: Mon, 30 Jun 2008 15:39:49 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
Allow-Events: presence
Content-Length: 0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK51b488a650b
CSeq: 102 ACK
Max-Forwards: 70
```

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

[17] SIP/2.0 200 OK

```
Date: Mon, 30 Jun 2008 15:39:49 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 217
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK663bd46b
CSeq: 102 INVITE
```

```
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 20564 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK76dc9975
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
Max-Forwards: 70
Date: Mon, 30 Jun 2008 15:39:48 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2fbd88e8
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
Max-Forwards: 70
Date: Mon, 30 Jun 2008 15:39:54 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

Date: Mon, 30 Jun 2008 15:39:55 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
 Contact: <sip:3034030@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2fbd88e8
 CSeq: 103 REFER

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

[21] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0

Date: Mon, 30 Jun 2008 15:39:55 GMT
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
 Event: refer
 Content-Length: 20
 User-Agent: Cisco-CUCM7.0
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 Contact: <sip:3034030@5.5.5.45:5060>
 Content-Type: message/sipfrag;version=2.0
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Subscription-State: active;expires=60
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK51c1a72dd26
 CSeq: 101 NOTIFY
 Max-Forwards: 70

SIP/2.0 100 Trying

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

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

Date: Mon, 30 Jun 2008 15:39:55 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: <sip:3034010@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 300
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Content-Type: application/sdp
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK51d3470bad9
 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 25820 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=fmtp:0
 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=z9hG4bK51c1a72dd26
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Date: Mon, 30 Jun 2008 15:39:54 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=z9hG4bK51d3470bad9
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850

To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:39:54 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 18594 2 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 20564 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
 Date: Mon, 30 Jun 2008 15:39:55 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK51e823fcc4
 CSeq: 103 ACK
 Max-Forwards: 70

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[26] INVITE sip:3034040@5.5.5.242:5060 SIP/2.0
 Date: Mon, 30 Jun 2008 15:39:55 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863852
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45;x-cisco-callback-number=3034030>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Call-ID: c8505d00-8681fe4b-a1fd-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK51f5a3c3e47
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[27] BYE sip:3034010@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0c62fec7
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:39:54 GMT
 CSeq: 104 BYE
 User-Agent: Cisco-CP7960G/7.5
 Content-Length: 0

[\[diagram\]](#) Call-ID: [\[prev\]](#)[\[next\]](#)
[28] SIP/2.0 200 OK
 Date: Mon, 30 Jun 2008 15:39:55 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849
 Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0c62fec7
 CSeq: 104 BYE

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

[29] NOTIFY sip:3034010@5.5.5.240:5060 SIP/2.0

Date: Mon, 30 Jun 2008 15:39:55 GMT

From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849

Event: refer

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2

Contact: <sip:3034030@5.5.5.45:5060>

Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240

Subscription-State: terminated;reason=deactivated

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK52014c535b8

CSeq: 102 NOTIFY

Max-Forwards: 70

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

[30] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK52014c535b8

From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863849

To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000671c62257-02b76ce2

Call-ID: 001a2f8d-f17f0004-029a57eb-31592be1@5.5.5.240

Date: Mon, 30 Jun 2008 15:39:55 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=z9hG4bK51f5a3c3e47

From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863852

To: <sip:3034040@5.5.5.242>

Call-ID: c8505d00-8681fe4b-a1fd-2d050505@5.5.5.45

Date: Mon, 30 Jun 2008 15:39:56 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=z9hG4bK51f5a3c3e47

From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863852

To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000618cee2b3-0bfe9ab9

Call-ID: c8505d00-8681fe4b-a1fd-2d050505@5.5.5.45

Date: Mon, 30 Jun 2008 15:39:56 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

Date: Mon, 30 Jun 2008 15:39:55 GMT

From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850

Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee

Contact: <sip:3034010@5.5.5.45:5060>

Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK521783e659

CSeq: 104 UPDATE

Max-Forwards: 70

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

[34] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK521783e659

From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850

To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee

Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45

Date: Mon, 30 Jun 2008 15:39:55 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 18594 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 20564 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

```
Date: Mon, 30 Jun 2008 15:39:56 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK52217567902
CSeq: 105 INVITE
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=z9hG4bK52217567902
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:39:55 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 18594 2 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 20564 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

```
Date: Mon, 30 Jun 2008 15:39:56 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
Allow-Events: presence
Content-Length: 215
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
Content-Type: application/sdp
Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5233fe64db9
CSeq: 105 ACK
Max-Forwards: 70
```

```
v=0
o=CiscoSystemsCCM-SIP 2000 4 IN IP4 5.5.5.45
s=SIP Call
```

```
c=IN IP4 5.5.5.45
t=0 0
m=audio 4000 RTP/AVP 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=sendonly
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

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

```
[38] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK51f5a3c3e47
From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863852
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000618cee2b3-0bfe9ab9
Call-ID: c8505d00-8681fe4b-a1fd-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:40:02 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 17606 0 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 24426 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
Date: Mon, 30 Jun 2008 15:40:02 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
Allow-Events: presence
Supported: timer,resource-priority,replaces
Min-SE: 1800
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
Content-Length: 214
User-Agent: Cisco-CUCM7.0
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
Contact: <sip:3034010@5.5.5.45:5060>
Expires: 180
Content-Type: application/sdp
Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK52427ed85af
CSeq: 106 INVITE
Max-Forwards: 70
```

```
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 0 101
a=rtpmap:0 PCMU/8000
a=ptime:20
a=inactive
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

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

```
[40] SIP/2.0 200 OK
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK52427ed85af
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
Date: Mon, 30 Jun 2008 15:40:01 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: 199
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 18594 4 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 20564 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: [\[prev\]](#)[\[next\]](#)

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

Date: Mon, 30 Jun 2008 15:40:02 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK525265f9d9e
 CSeq: 106 ACK
 Max-Forwards: 70

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

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

Date: Mon, 30 Jun 2008 15:40:02 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 Allow-Events: presence
 Supported: timer, resource-priority, replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK526d071396
 CSeq: 107 INVITE
 Max-Forwards: 70

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

[43] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK51f5a3c3e47
 From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863852
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000618cee2b3-0bfe9ab9
 Call-ID: c8505d00-8681fe4b-a1fd-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:40:02 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 17606 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 24426 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=z9hG4bK526d071396
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:40:02 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 18594 4 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 20564 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

Date: Mon, 30 Jun 2008 15:40:02 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 Content-Type: application/sdp
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5272989082a
 CSeq: 107 ACK
 Max-Forwards: 70

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 24426 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

Date: Mon, 30 Jun 2008 15:39:55 GMT
 From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863852
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000618cee2b3-0bfe9ab9
 Content-Type: application/sdp
 Call-ID: c8505d00-8681fe4b-a1fd-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK52860120431
 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 5.5.5.241
 t=0 0
 m=audio 20564 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=z9hG4bK021903b5
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 To: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Mon, 30 Jun 2008 15:40:06 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

Date: Mon, 30 Jun 2008 15:39:55 GMT
 From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863852
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000618cee2b3-0bfe9ab9
 Call-ID: c8505d00-8681fe4b-a1fd-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK52920623dee
 CSeq: 102 BYE
 Max-Forwards: 70

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

[49] SIP/2.0 200 OK

Date: Mon, 30 Jun 2008 15:40:07 GMT
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600087400c709-07ed8cee
 Content-Length: 0
 To: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863850
 Call-ID: bff82200-8681fe3d-a1fc-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK021903b5
 CSeq: 101 BYE

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

[50] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK52920623dee
 From: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-25863852
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000618cee2b3-0bfe9ab9
 Call-ID: c8505d00-8681fe4b-a1fd-2d050505@5.5.5.45
 Date: Mon, 30 Jun 2008 15:40:08 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

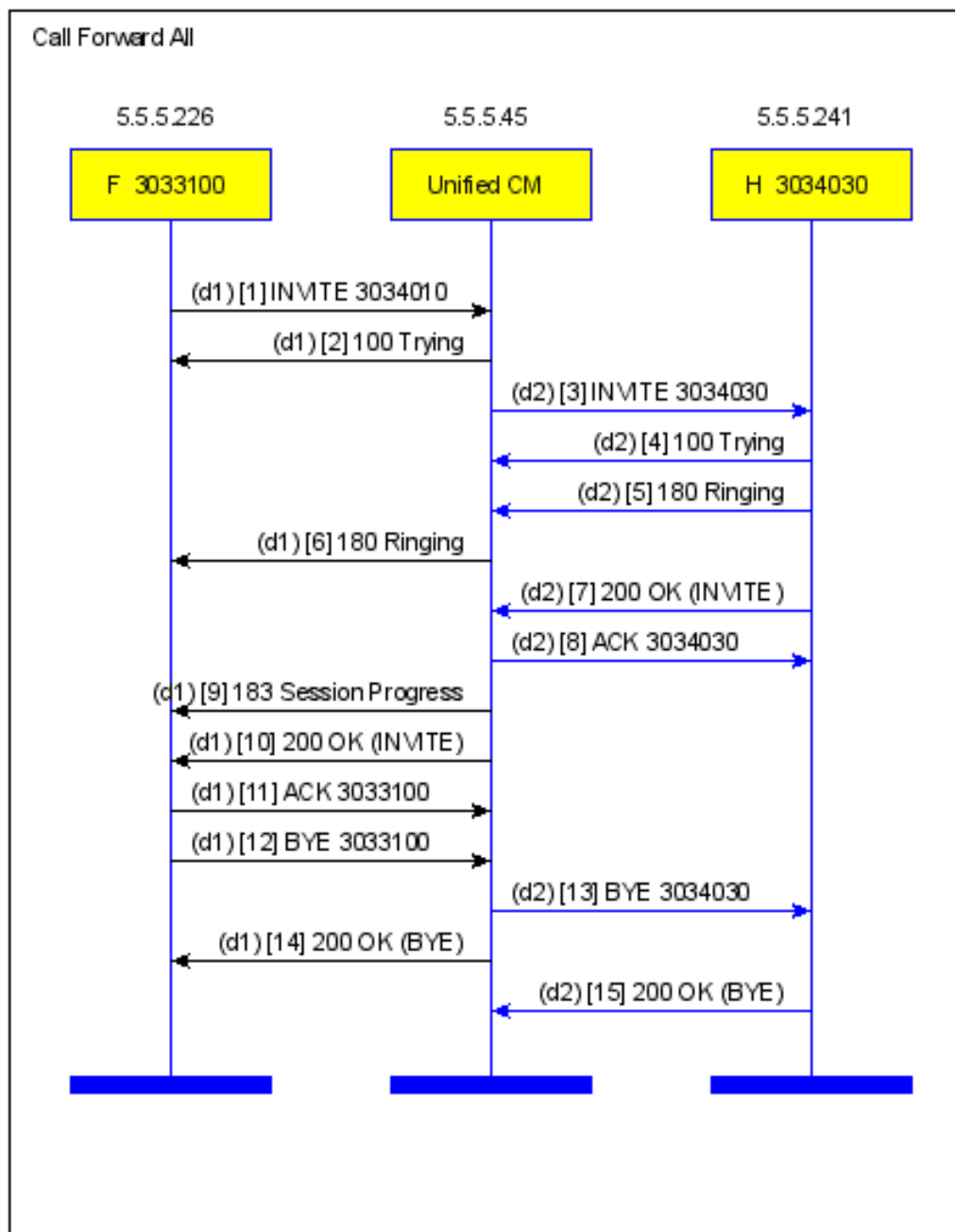
3034010 never gets ringing (Unified CM forwards)

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=z9hG4bK59cf6d94
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d23148589-5de73f2c
 To: <sip:3034010@titan-pub>
 Call-ID: 000ab8f5-aadf0005-71ac421a-549404af@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: 269
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 9422 0 IN IP4 5.5.5.226
 s=SIP Call
 t=0 0
 m=audio 24870 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

Date: Wed, 18 Jun 2008 20:25:13 GMT
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d23148589-5de73f2c
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034010@titan-pub>
 Call-ID: 000ab8f5-aadf0005-71ac421a-549404af@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK59cf6d94
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 20:25:13 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003305
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Diversion: "SIP Basic 3034010" <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
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: a67ae000-85916f29-bf05-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd5d73a8ceb9
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd5d73a8ceb9
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003305
 To: <sip:3034030@5.5.5.241>
 Call-ID: a67ae000-85916f29-bf05-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 20:25:13 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=z9hG4bKd5d73a8ceb9
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003305
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f521f9e2c-097543f9
 Call-ID: a67ae000-85916f29-bf05-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 20:25:13 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

Date: Wed, 18 Jun 2008 20:25:13 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d23148589-5de73f2c
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003302
 Contact: <sip:3033100@5.5.5.45:5060>
 Call-ID: 000ab8f5-aadf0005-71ac421a-549404af@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK59cf6d94
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd5d73a8ceb9
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003305
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f521f9e2c-097543f9
 Call-ID: a67ae000-85916f29-bf05-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 20:25:20 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
 Supported: replaces
 Content-Length: 247
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 761 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 19400 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

Date: Wed, 18 Jun 2008 20:25:13 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003305
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f521f9e2c-097543f9
 Content-Type: application/sdp
 Call-ID: a67ae000-85916f29-bf05-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd5ead9f2be
 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 5.5.5.226
 t=0 0
 m=audio 24870 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

Date: Wed, 18 Jun 2008 20:25:13 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d23148589-5de73f2c
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003302
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 000ab8f5-aadf0005-71ac421a-549404af@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK59cf6d94
 CSeq: 101 INVITE

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 19400 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

Date: Wed, 18 Jun 2008 20:25:13 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d23148589-5de73f2c
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003302
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 000ab8f5-aadf0005-71ac421a-549404af@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK59cf6d94
 CSeq: 101 INVITE

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 19400 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:3033100@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK7aab9b33
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d23148589-5de73f2c
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003302
 Call-ID: 000ab8f5-aadf0005-71ac421a-549404af@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:3033100@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK09532889
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d23148589-5de73f2c
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003302
 Call-ID: 000ab8f5-aadf0005-71ac421a-549404af@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

Date: Wed, 18 Jun 2008 20:25:13 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003305
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f521f9e2c-097543f9
 Call-ID: a67ae000-85916f29-bf05-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd5f8744e0d
 CSeq: 102 BYE
 Max-Forwards: 70

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

[14] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 20:25:30 GMT
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d23148589-5de73f2c
 Content-Length: 0
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003302
 Call-ID: 000ab8f5-aadf0005-71ac421a-549404af@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK09532889
 CSeq: 102 BYE

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

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd5f8744e0d
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003305
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f521f9e2c-097543f9
 Call-ID: a67ae000-85916f29-bf05-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 20:25:30 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

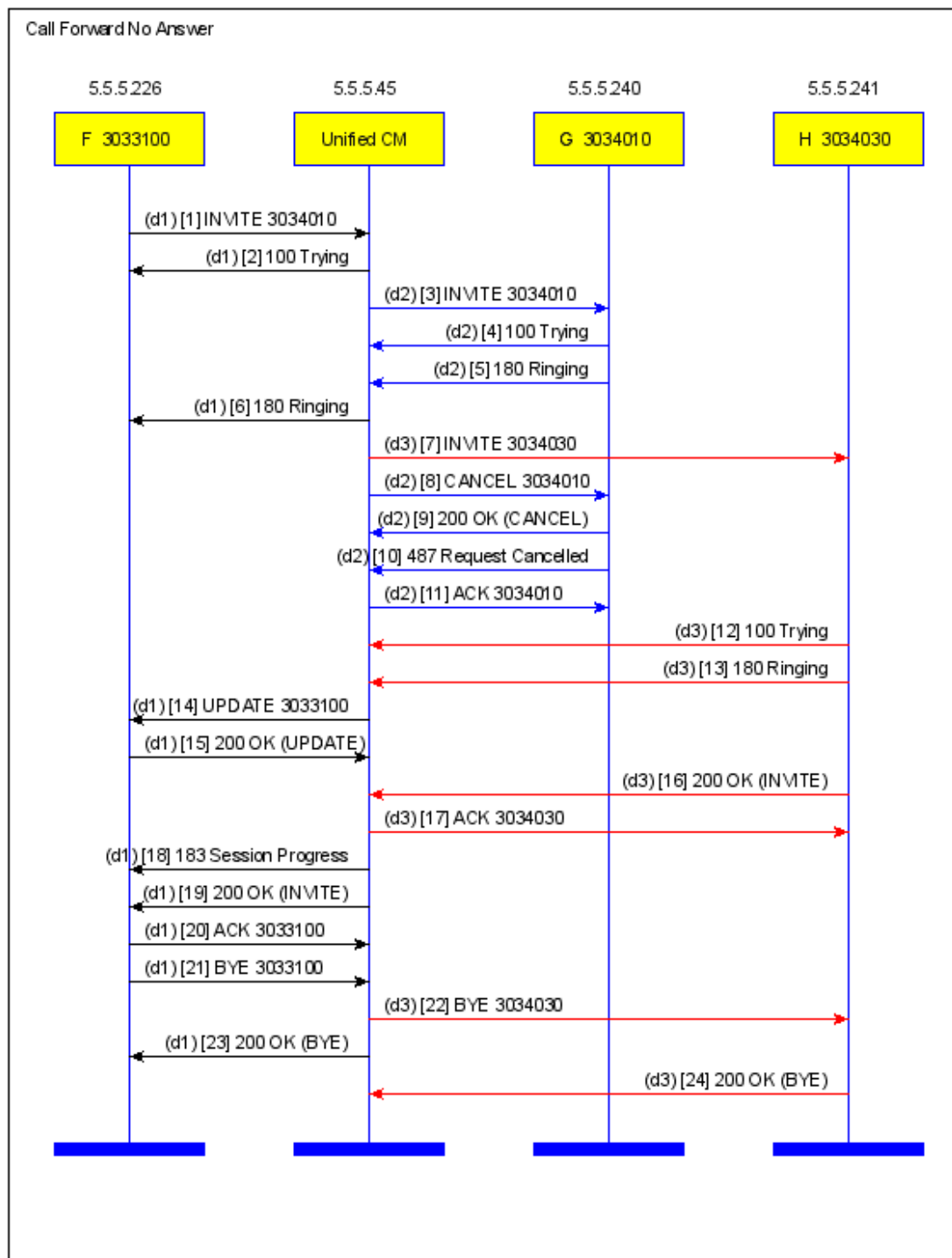
3034030 rings

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=z9hG4bK54574607
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00085d45813c-31b46357
 To: <sip:3034010@titan-pub>
 Call-ID: 000ab8f5-aadf0007-193a0fd9-29be7cad@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 28089 0 IN IP4 5.5.5.226
 s=SIP Call
 t=0 0
 m=audio 24124 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

Date: Wed, 18 Jun 2008 21:52:50 GMT
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00085d45813c-31b46357
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034010@titan-pub>
 Call-ID: 000ab8f5-aadf0007-193a0fd9-29be7cad@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK54574607
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 21:52:50 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003392
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Tripti" <sip:3033100@5.5.5.45;x-cisco-callback-number=3033100>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034010@5.5.5.240>
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Call-ID: e3e56a80-859183b2-c02b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd12d03d93b
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd12d03d93b
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003392
 To: <sip:3034010@5.5.5.240>
 Call-ID: e3e56a80-859183b2-c02b-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:52:51 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=z9hG4bKdd12d03d93b
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003392
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f00087606235d-3afac096
 Call-ID: e3e56a80-859183b2-c02b-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:52:51 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

Date: Wed, 18 Jun 2008 21:52:50 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00085d45813c-31b46357
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003391
 Contact: <sip:3033100@5.5.5.45:5060>
 Call-ID: 000ab8f5-aadf0007-193a0fd9-29be7cad@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK54574607
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 21:52:56 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003395
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Diversion: "SIP Basic 3034010" <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
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: e778f180-859183b8-c02c-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd23e49921e
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[8] CANCEL sip:3034010@5.5.5.240:5060 SIP/2.0

Date: Wed, 18 Jun 2008 21:52:50 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003392
 Content-Length: 0
 To: <sip:3034010@5.5.5.240>
 Call-ID: e3e56a80-859183b2-c02b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd12d03d93b
 CSeq: 101 CANCEL
 Max-Forwards: 70

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

[9] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd12d03d93b
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003392
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f00087606235d-3afac096
 Call-ID: e3e56a80-859183b2-c02b-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:52:56 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=z9hG4bKdd12d03d93b
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003392
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f00087606235d-3afac096
 Call-ID: e3e56a80-859183b2-c02b-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:52:56 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

Date: Wed, 18 Jun 2008 21:52:50 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003392
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f00087606235d-3afac096
 Call-ID: e3e56a80-859183b2-c02b-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd12d03d93b
 CSeq: 101 ACK
 Max-Forwards: 70

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

[12] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd23e49921e
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003395
 To: <sip:3034030@5.5.5.241>
 Call-ID: e778f180-859183b8-c02c-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:52:55 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=z9hG4bKdd23e49921e
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003395
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000b5ef6dd5d-08172620
 Call-ID: e778f180-859183b8-c02c-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:52:55 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

Date: Wed, 18 Jun 2008 21:52:50 GMT
 From: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003391
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00085d45813c-31b46357
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 000ab8f5-aadf0007-193a0fd9-29be7cad@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd378d27135
 CSeq: 101 UPDATE
 Max-Forwards: 70

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

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd378d27135
 From: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003391
 To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00085d45813c-31b46357
 Call-ID: 000ab8f5-aadf0007-193a0fd9-29be7cad@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=z9hG4bKdd23e49921e
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003395
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000b5ef6dd5d-08172620
 Call-ID: e778f180-859183b8-c02c-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:52:58 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 9497 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 30448 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
 Date: Wed, 18 Jun 2008 21:52:56 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003395
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000b5ef6dd5d-08172620
 Content-Type: application/sdp
 Call-ID: e778f180-859183b8-c02c-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd4309ba8e1
 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 5.5.5.226
 t=0 0
 m=audio 24124 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
 Date: Wed, 18 Jun 2008 21:52:50 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00085d45813c-31b46357
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003391
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 000ab8f5-aadf0007-193a0fd9-29be7cad@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK54574607
 CSeq: 101 INVITE

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 30448 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
 Date: Wed, 18 Jun 2008 21:52:50 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00085d45813c-31b46357
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003391

Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 000ab8f5-aadf0007-193a0fd9-29be7cad@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK54574607
 CSeq: 101 INVITE

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 30448 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:3033100@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK13112597
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00085d45813c-31b46357
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003391
 Call-ID: 000ab8f5-aadf0007-193a0fd9-29be7cad@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:3033100@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK686e4714
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00085d45813c-31b46357
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003391
 Call-ID: 000ab8f5-aadf0007-193a0fd9-29be7cad@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

Date: Wed, 18 Jun 2008 21:52:56 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003395
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000b5ef6dd5d-08172620
 Call-ID: e778f180-859183b8-c02c-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd51828c899
 CSeq: 102 BYE
 Max-Forwards: 70

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

[23] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 21:53:02 GMT
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf00085d45813c-31b46357
 Content-Length: 0
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003391
 Call-ID: 000ab8f5-aadf0007-193a0fd9-29be7cad@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK686e4714
 CSeq: 102 BYE

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

[24] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdd51828c899
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003395
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000b5ef6dd5d-08172620
 Call-ID: e778f180-859183b8-c02c-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:53:01 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)

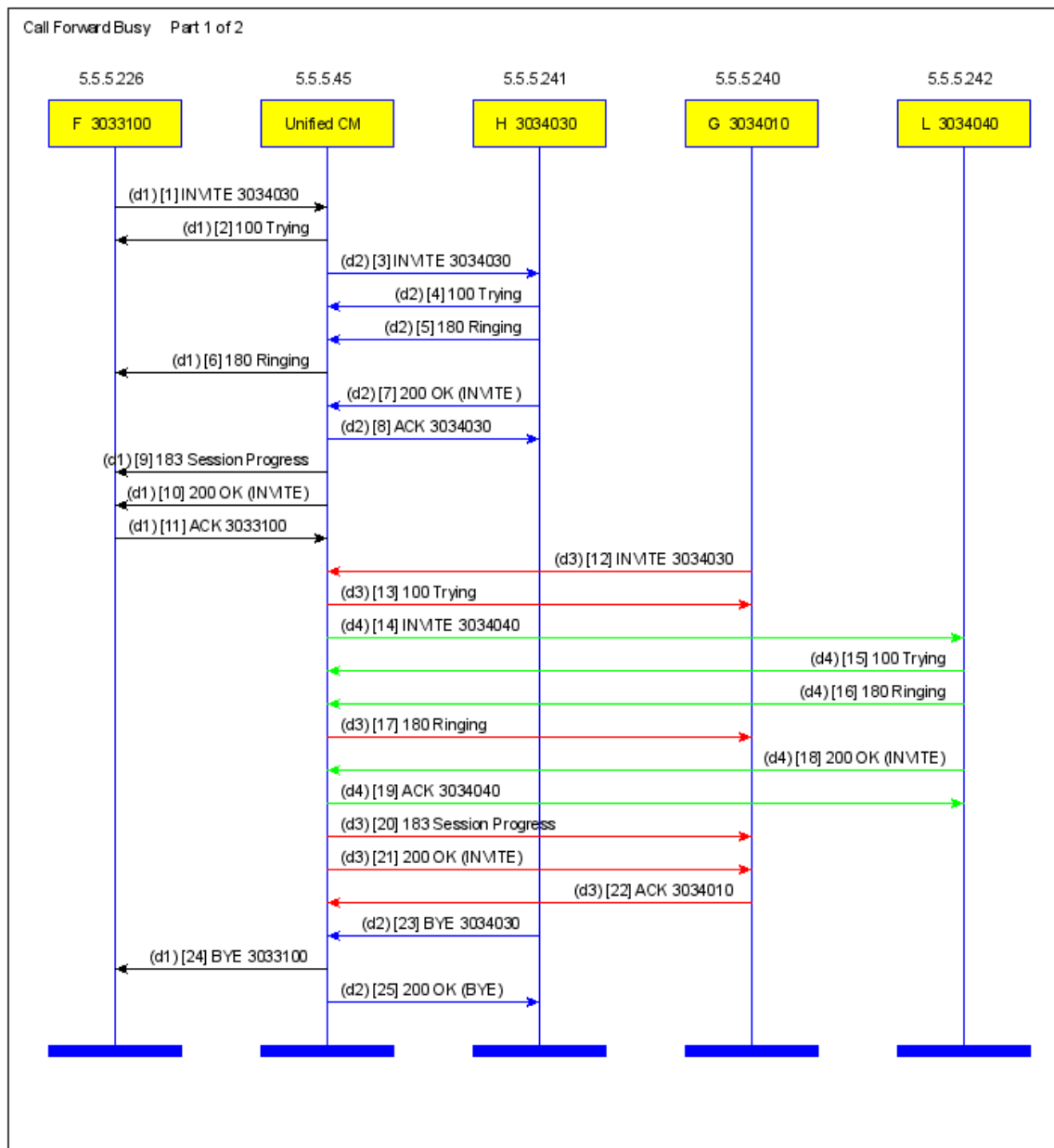
3034040 rings

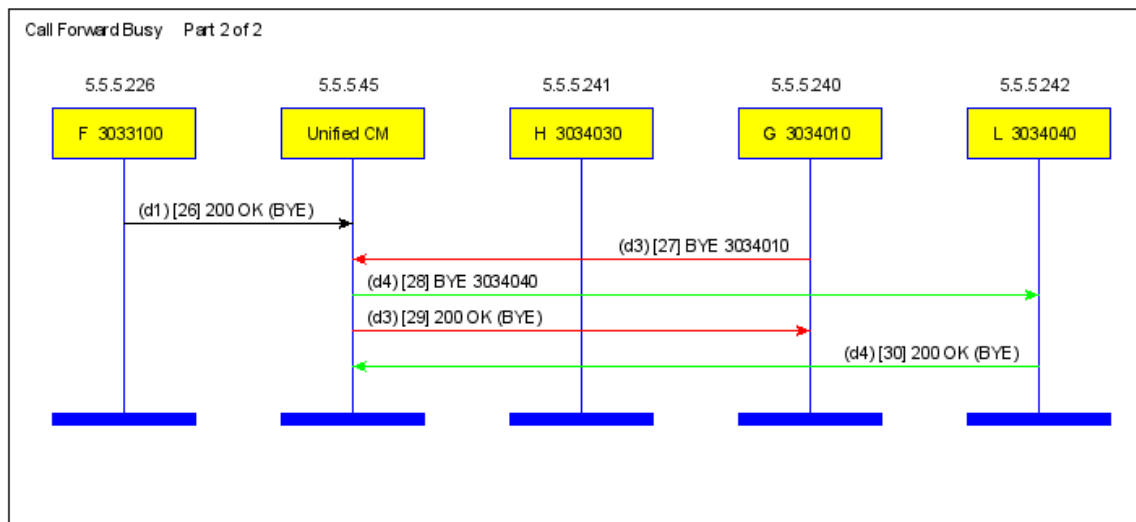
3034040 answers

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=z9hG4bK7b148ea6
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d721b9712-2f298089
 To: <sip:3034030@titan-pub>
 Call-ID: 000ab8f5-aadf0006-29520b52-3fcdea2e@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: 269
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 1791 0 IN IP4 5.5.5.226
 s=SIP Call
 t=0 0
 m=audio 28710 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

Date: Wed, 18 Jun 2008 21:42:27 GMT
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d721b9712-2f298089
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@titan-pub>
 Call-ID: 000ab8f5-aadf0006-29520b52-3fcdea2e@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK7b148ea6
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 21:42:27 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003368
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Tripti" <sip:3033100@5.5.5.45;x-cisco-callback-number=3033100>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 708f2900-85918143-bffb-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdb525a1f3bc
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdb525a1f3bc
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003368
 To: <sip:3034030@5.5.5.241>
 Call-ID: 708f2900-85918143-bffb-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:42:27 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=z9hG4bKdb525a1f3bc
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003368
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f1fc86096-07ac24c5
 Call-ID: 708f2900-85918143-bffb-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:42:28 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

Date: Wed, 18 Jun 2008 21:42:27 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d721b9712-2f298089
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003367
 Contact: <sip:3033100@5.5.5.45:5060>
 Call-ID: 000ab8f5-aadf0006-29520b52-3fcdea2e@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK7b148ea6
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdb525a1f3bc
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003368
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f1fc86096-07ac24c5
 Call-ID: 708f2900-85918143-bffb-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:42:30 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 25229 0 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 20382 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

Date: Wed, 18 Jun 2008 21:42:27 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003368
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f1fc86096-07ac24c5
 Content-Type: application/sdp
 Call-ID: 708f2900-85918143-bffb-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdb67f87e663
 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 5.5.5.226
t=0 0
m=audio 28710 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

Date: Wed, 18 Jun 2008 21:42:27 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d721b9712-2f298089
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003367
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 000ab8f5-aadf0006-29520b52-3fcdea2e@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK7b148ea6
 CSeq: 101 INVITE

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 20382 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

Date: Wed, 18 Jun 2008 21:42:27 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d721b9712-2f298089
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003367
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 000ab8f5-aadf0006-29520b52-3fcdea2e@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK7b148ea6
 CSeq: 101 INVITE

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 20382 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:3033100@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK38b11516
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d721b9712-2f298089
 To: <sip:3034030@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003367
 Call-ID: 000ab8f5-aadf0006-29520b52-3fcdea2e@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=z9hG4bK59a9e2b2
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c2e3c2d44-473fafa9
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-61a7ea84-51c01068@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 21:42:43 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 21184 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 31844 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

Date: Wed, 18 Jun 2008 21:42:43 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c2e3c2d44-473fafa9
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-61a7ea84-51c01068@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK59a9e2b2
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 21:42:43 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003374
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Diversion: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;reason=user-busy;privacy=off;screen=yes
 Remote-Party-ID: <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Call-ID: 7a189100-85918153-bffd-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdb753b97d7a
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[15] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdb753b97d7a
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003374
 To: <sip:3034040@5.5.5.242>
 Call-ID: 7a189100-85918153-bffd-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:42:43 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=z9hG4bKdb753b97d7a
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003374
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000c036f61f0-09bb3f0d
 Call-ID: 7a189100-85918153-bffd-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:42:44 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
 Content-Length: 0

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

[17] SIP/2.0 180 Ringing

Date: Wed, 18 Jun 2008 21:42:43 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c2e3c2d44-473fafa9
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003370
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-61a7ea84-51c01068@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK59a9e2b2
 CSeq: 101 INVITE

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

[18] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdb753b97d7a
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003374
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000c036f61f0-09bb3f0d
 Call-ID: 7a189100-85918153-bffd-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:42:48 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 20527 0 IN IP4 5.5.5.242
 s=SIP Call
 t=0 0
 m=audio 26740 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

Date: Wed, 18 Jun 2008 21:42:43 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003374
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000c036f61f0-09bb3f0d
 Content-Type: application/sdp
 Call-ID: 7a189100-85918153-bffd-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdb87d3d696a
 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 5.5.5.240
 t=0 0
 m=audio 31844 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

Date: Wed, 18 Jun 2008 21:42:43 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c2e3c2d44-473fafa9
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003370
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-61a7ea84-51c01068@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK59a9e2b2
 CSeq: 101 INVITE

```
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 26740 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

```
Date: Wed, 18 Jun 2008 21:42:43 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c2e3c2d44-473fafa9
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003370
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-61a7ea84-51c01068@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK59a9e2b2
CSeq: 101 INVITE
```

```
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 26740 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:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0d56a80e
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c2e3c2d44-473fafa9
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003370
Call-ID: 001a2f8d-f17f0004-61a7ea84-51c01068@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 21:42:48 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=z9hG4bK145a1036
From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f1fc86096-07ac24c5
To: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003368
Call-ID: 708f2900-85918143-bfffb-2d050505@5.5.5.45
Max-Forwards: 70
Date: Wed, 18 Jun 2008 21:43:00 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

```
Date: Wed, 18 Jun 2008 21:42:30 GMT
From: <sip:3034030@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003367
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d721b9712-2f298089
Call-ID: 000ab8f5-aadf0006-29520b52-3fcdea2e@5.5.5.226
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdb913a3c904
CSeq: 101 BYE
Max-Forwards: 70
```

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

[25] SIP/2.0 200 OK

```
Date: Wed, 18 Jun 2008 21:43:00 GMT
From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f1fc86096-07ac24c5
```


Content-Length: 0
 To: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003368
 Call-ID: 708f2900-85918143-bffb-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK145a1036
 CSeq: 101 BYE

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

[26] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdb913a3c904
 From: <sip:3034030@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003367
 To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000d721b9712-2f298089
 Call-ID: 000ab8f5-aadf0006-29520b52-3fcdea2e@5.5.5.226
 CSeq: 101 BYE
 Server: Cisco-CP7960G/8.0
 Content-Length: 0

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

[27] BYE sip:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK264aa35a
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c2e3c2d44-473fafa9
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003370
 Call-ID: 001a2f8d-f17f0004-61a7ea84-51c01068@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 21:43:04 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

Date: Wed, 18 Jun 2008 21:42:43 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003374
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000c036f61f0-09bb3f0d
 Call-ID: 7a189100-85918153-bffd-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdba3af1f834
 CSeq: 102 BYE
 Max-Forwards: 70

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

[29] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 21:43:04 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000c2e3c2d44-473fafa9
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003370
 Call-ID: 001a2f8d-f17f0004-61a7ea84-51c01068@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK264aa35a
 CSeq: 102 BYE

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

[30] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdba3af1f834
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003374
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000c036f61f0-09bb3f0d
 Call-ID: 7a189100-85918153-bffd-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 21:43:04 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

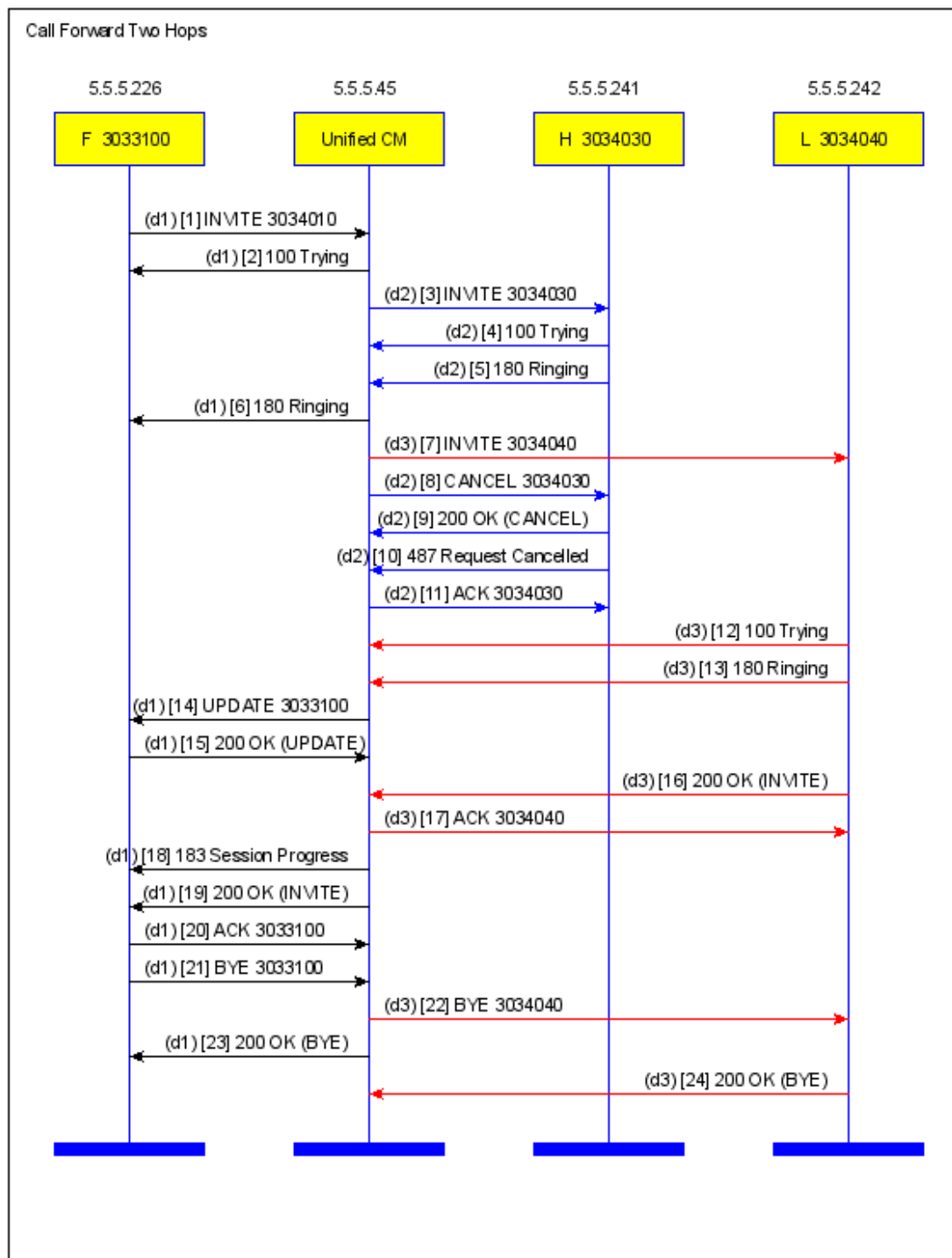
3034040 rings

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=z9hG4bK3118bcd3
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf0006337899b2-2120c16d
 To: <sip:3034010@titan-pub>
 Call-ID: 000ab8f5-aadf0005-4d8d7066-6b945887@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 16909 0 IN IP4 5.5.5.226
 s=SIP Call
 t=0 0
 m=audio 17408 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

Date: Wed, 18 Jun 2008 22:02:33 GMT
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf0006337899b2-2120c16d
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034010@titan-pub>
 Call-ID: 000ab8f5-aadf0005-4d8d7066-6b945887@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK3118bcd3
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 22:02:33 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003399
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Diversion: "SIP Basic 3034010" <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
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 3f642800-859185f9-c051-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK42f367dc
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK42f367dc
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003399
 To: <sip:3034030@5.5.5.241>
 Call-ID: 3f642800-859185f9-c051-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:02:32 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=z9hG4bKde42f367dc
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003399
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600080246f976-1ef24b67
 Call-ID: 3f642800-859185f9-c051-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:02:32 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

Date: Wed, 18 Jun 2008 22:02:33 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf0006337899b2-2120c16d
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003396
 Contact: <sip:3033100@5.5.5.45:5060>
 Call-ID: 000ab8f5-aadf0005-4d8d7066-6b945887@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK3118bcd3
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 22:02:45 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003402
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Diversion: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;reason=no-answer;privacy=off;screen=yes
 Diversion: "SIP Basic 3034010" <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
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>
 Contact: <sip:3034040@5.5.5.45:5060>
 Expires: 180
 Call-ID: 468b3600-85918605-c052-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKde523b20002
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

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

Date: Wed, 18 Jun 2008 22:02:33 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003399
 Content-Length: 0
 To: <sip:3034030@5.5.5.241>
 Call-ID: 3f642800-859185f9-c051-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKde42f367dc
 CSeq: 101 CANCEL
 Max-Forwards: 70

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

[9] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKde42f367dc
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003399
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600080246f976-1ef24b67
 Call-ID: 3f642800-859185f9-c051-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:02:44 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=z9hG4bKde42f367dc
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003399
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600080246f976-1ef24b67
 Call-ID: 3f642800-859185f9-c051-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:02:44 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
 Content-Length: 0

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

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

Date: Wed, 18 Jun 2008 22:02:33 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003399
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600080246f976-1ef24b67
 Call-ID: 3f642800-859185f9-c051-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKde42f367dc
 CSeq: 101 ACK
 Max-Forwards: 70

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

[12] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKde523b20002
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003402
 To: <sip:3034040@5.5.5.242>
 Call-ID: 468b3600-85918605-c052-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:02:46 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
 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=z9hG4bKde523b20002
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003402
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0006621deef6-500c9226
 Call-ID: 468b3600-85918605-c052-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:02:46 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
 Content-Length: 0

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

[14] UPDATE sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0

Date: Wed, 18 Jun 2008 22:02:33 GMT
 From: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003396
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf0006337899b2-2120c16d
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 000ab8f5-aadf0005-4d8d7066-6b945887@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKde65c0b4b13
 CSeq: 101 UPDATE
 Max-Forwards: 70

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

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKde65c0b4b13
 From: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003396
 To: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf0006337899b2-2120c16d
 Call-ID: 000ab8f5-aadf0005-4d8d7066-6b945887@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=z9hG4bKde523b20002
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003402
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0006621deef6-500c9226
 Call-ID: 468b3600-85918605-c052-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:02:52 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: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional
```

```
v=0
o=Cisco-SIPUA 12851 0 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 31218 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
 Date: Wed, 18 Jun 2008 22:02:45 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003402
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0006621deef6-500c9226
 Content-Type: application/sdp
 Call-ID: 468b3600-85918605-c052-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKde7497a2714
 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 5.5.5.226
t=0 0
m=audio 17408 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
 Date: Wed, 18 Jun 2008 22:02:33 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf0006337899b2-2120c16d
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003396
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 000ab8f5-aadf0005-4d8d7066-6b945887@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK3118bcd3
 CSeq: 101 INVITE

```
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 31218 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
 Date: Wed, 18 Jun 2008 22:02:33 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf0006337899b2-2120c16d
 Allow-Events: presence
 Supported: replaces

Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003396
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 000ab8f5-aadf0005-4d8d7066-6b945887@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK3118bcd3
 CSeq: 101 INVITE

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 31218 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:3033100@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK732b86c9
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf0006337899b2-2120c16d
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003396
 Call-ID: 000ab8f5-aadf0005-4d8d7066-6b945887@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:3033100@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK633b6fd0
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf0006337899b2-2120c16d
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003396
 Call-ID: 000ab8f5-aadf0005-4d8d7066-6b945887@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

Date: Wed, 18 Jun 2008 22:02:45 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003402
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0006621deef6-500c9226
 Call-ID: 468b3600-85918605-c052-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKde81bfd5946
 CSeq: 102 BYE
 Max-Forwards: 70

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

[23] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 22:02:56 GMT
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf0006337899b2-2120c16d
 Content-Length: 0
 To: <sip:3034010@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003396
 Call-ID: 000ab8f5-aadf0005-4d8d7066-6b945887@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK633b6fd0
 CSeq: 102 BYE

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

[24] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKde81bfd5946
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003402
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e0006621deef6-500c9226
 Call-ID: 468b3600-85918605-c052-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:02:57 GMT
 CSeq: 102 BYE
 Server: Cisco-CP7960G/7.5
 Content-Length: 0

6.5 302 Redirect

Title: 302 Redirect

Description:

If a SIP Cisco Non-TNP or SIP Basic 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

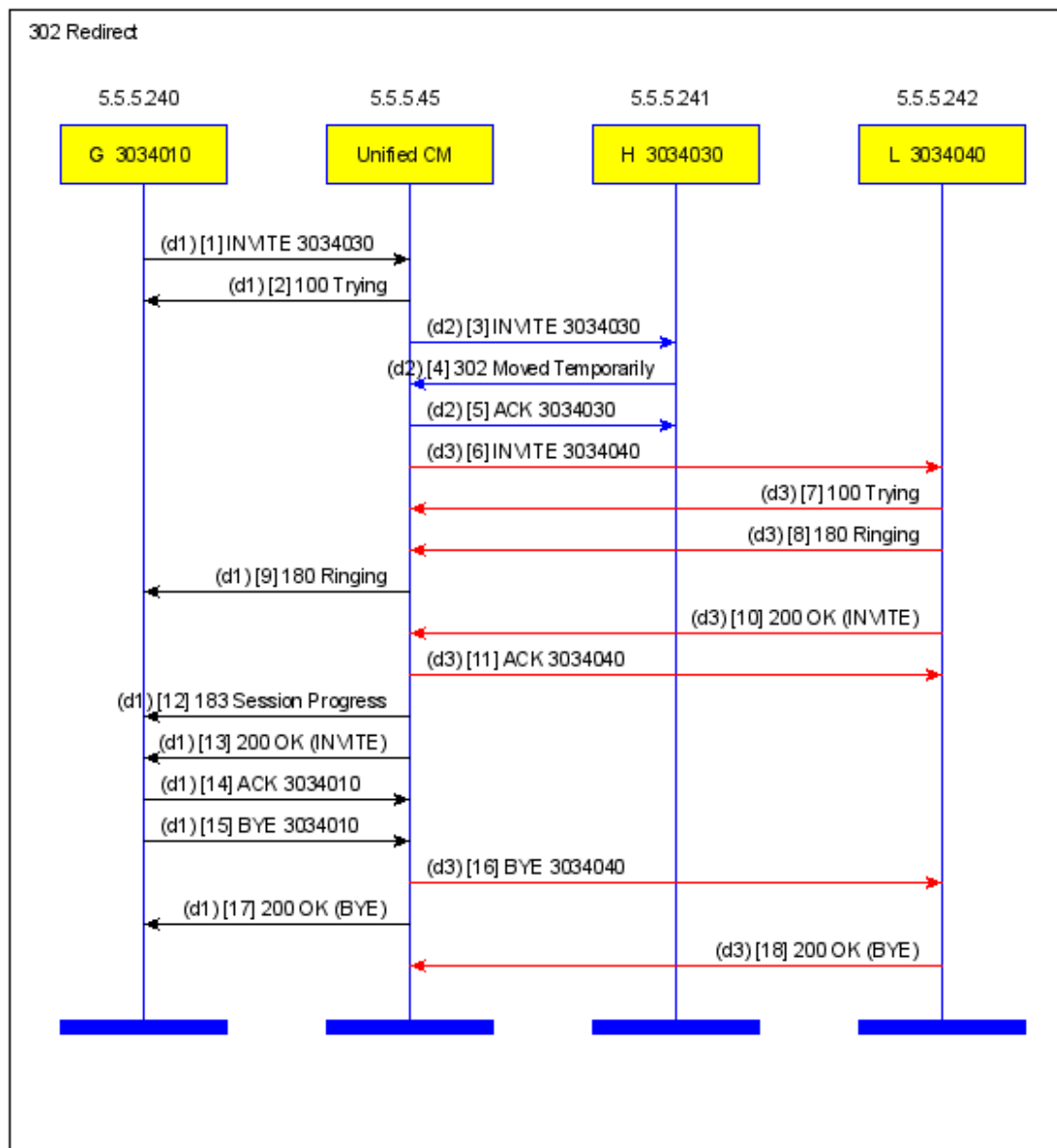
3034030 responds with "302 Moved Temporarily"

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=z9hG4bK0b10a930
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000b315983a3-5f420b13
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-62e248af-2a0d1b38@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 18:57:48 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 20343 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 24536 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

Date: Wed, 18 Jun 2008 18:57:48 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000b315983a3-5f420b13
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-62e248af-2a0d1b38@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0b10a930
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 18:57:48 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003284
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 70376380-85915aac-be40-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd2443f155e9
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 302 Moved Temporarily

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd2443f155e9
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003284
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f0eebc84c-73c1c0d8
 Call-ID: 70376380-85915aac-be40-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 18:57:47 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

Date: Wed, 18 Jun 2008 18:57:48 GMT

From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003284

Allow-Events: presence

Content-Length: 0

To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d6000f0eebc84c-73c1c0d8

Call-ID: 70376380-85915aac-be40-2d050505@5.5.5.45

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd2443f155e9

CSeq: 101 ACK

Max-Forwards: 70

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

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

Date: Wed, 18 Jun 2008 18:57:48 GMT

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003286

Allow-Events: presence

Supported: timer,resource-priority,replaces

Min-SE: 1800

Diversion: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;reason=unconditional;privacy=off;screen=yes

Diversion: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;reason=unconditional;privacy=off;screen=yes

Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;x-cisco-callback-

number=3034010>;party=calling;screen=yes;privacy=off

Content-Length: 0

User-Agent: Cisco-CUCM7.0

To: <sip:3034040@5.5.5.242>

Contact: <sip:3034040@5.5.5.45:5060>

Expires: 180

Call-ID: 70376380-85915aac-be41-2d050505@5.5.5.45

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd256e53319c

CSeq: 101 INVITE

Max-Forwards: 69

Alert-Info: <file://Bellcore-dr1/>

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

[7] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd256e53319c

From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003286

To: <sip:3034040@5.5.5.242>

Call-ID: 70376380-85915aac-be41-2d050505@5.5.5.45

Date: Wed, 18 Jun 2008 18:57:48 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=z9hG4bKd256e53319c

From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003286

To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000b4259fe43-56db4441

Call-ID: 70376380-85915aac-be41-2d050505@5.5.5.45

Date: Wed, 18 Jun 2008 18:57:48 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

Date: Wed, 18 Jun 2008 18:57:48 GMT

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000b315983a3-5f420b13

Allow-Events: presence

Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off

Content-Length: 0

To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003283

Contact: <sip:3034010@5.5.5.45:5060>

Call-ID: 001a2f8d-f17f0004-62e248af-2a0d1b38@5.5.5.240

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0b10a930

CSeq: 101 INVITE

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

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd256e53319c

```

From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003286
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000b4259fe43-56db4441
Call-ID: 70376380-85915aac-be41-2d050505@5.5.5.45
Date: Wed, 18 Jun 2008 18:57:51 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
Supported: replaces
Content-Length: 249
Content-Type: application/sdp
Content-Disposition: session;handling=optional

```

```

v=0
o=Cisco-SIPUA 11478 0 IN IP4 5.5.5.242
s=SIP Call
t=0 0
m=audio 18162 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

```

Date: Wed, 18 Jun 2008 18:57:48 GMT
From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003286
Allow-Events: presence
Content-Length: 205
To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000b4259fe43-56db4441
Content-Type: application/sdp
Call-ID: 70376380-85915aac-be41-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd2652ba30be
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 5.5.5.240
t=0 0
m=audio 24536 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

```

Date: Wed, 18 Jun 2008 18:57:48 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000b315983a3-5f420b13
Allow-Events: presence
Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003283
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0004-62e248af-2a0d1b38@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0b10a930
CSeq: 101 INVITE

```

```

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 18162 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

```

Date: Wed, 18 Jun 2008 18:57:48 GMT

```

Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000b315983a3-5f420b13
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034040" <sip:3034040@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003283
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-62e248af-2a0d1b38@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK0b10a930
 CSeq: 101 INVITE

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 18162 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK771abd6b
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000b315983a3-5f420b13
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003283
 Call-ID: 001a2f8d-f17f0004-62e248af-2a0d1b38@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 18:57:52 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK309a443c
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000b315983a3-5f420b13
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003283
 Call-ID: 001a2f8d-f17f0004-62e248af-2a0d1b38@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 18:58:04 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

Date: Wed, 18 Jun 2008 18:57:48 GMT
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003286
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000b4259fe43-56db4441
 Call-ID: 70376380-85915aac-be41-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd2759e8ee06
 CSeq: 102 BYE
 Max-Forwards: 70

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

[17] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 18:58:04 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f000b315983a3-5f420b13
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003283
 Call-ID: 001a2f8d-f17f0004-62e248af-2a0d1b38@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK309a443c
 CSeq: 102 BYE

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

[18] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKd2759e8ee06
 From: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003286
 To: <sip:3034040@5.5.5.242>;tag=0018b93bb53e000b4259fe43-56db4441
 Call-ID: 70376380-85915aac-be41-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 18:58:04 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

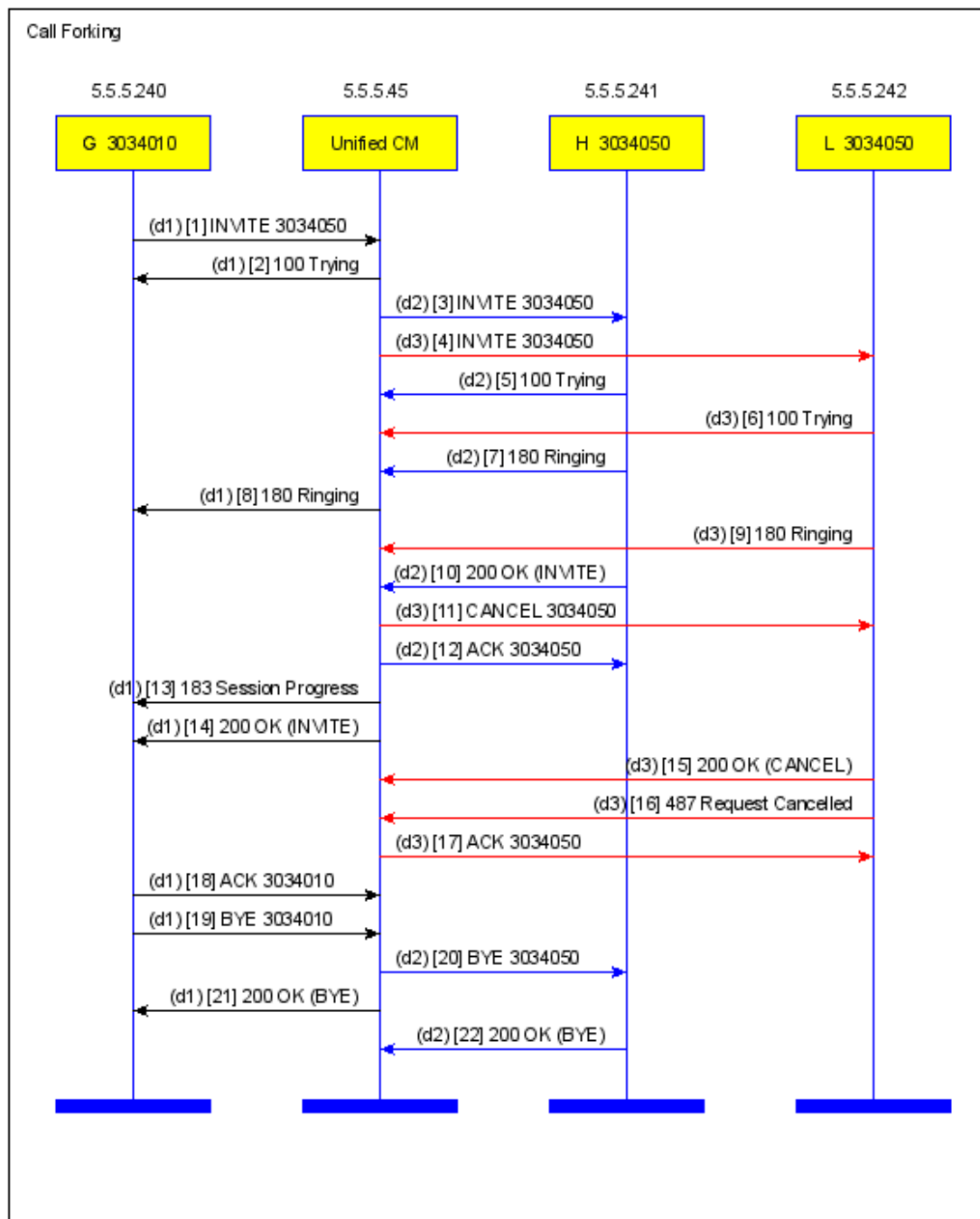
Scenario:

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=z9hG4bK7a885b5d
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00075ae0cff9-77920bf2
 To: <sip:3034050@5.5.5.45>
 Call-ID: 001a2f8d-f17f0006-754f3643-34113d9f@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 22:09:58 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 26834 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 29110 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

Date: Wed, 18 Jun 2008 22:09:58 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00075ae0cff9-77920bf2
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034050@5.5.5.45>
 Call-ID: 001a2f8d-f17f0006-754f3643-34113d9f@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7a885b5d
 CSeq: 101 INVITE

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

[3] INVITE sip:3034050@5.5.5.241:5060 SIP/2.0

Date: Wed, 18 Jun 2008 22:09:58 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034050@5.5.5.241>
 Contact: <sip:3034050@5.5.5.45:5060>
 Expires: 180
 Call-ID: 48a1c480-859187b6-c06f-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdf6def481b
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] INVITE sip:3034050@5.5.5.242:5060 SIP/2.0

Date: Wed, 18 Jun 2008 22:09:58 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034050@5.5.5.242>
 Contact: <sip:3034050@5.5.5.45:5060>
 Expires: 180
 Call-ID: 48a1c480-859187b6-c070-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdf72484fae2

CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[5] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdf6def481b
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
 To: <sip:3034050@5.5.5.241>
 Call-ID: 48a1c480-859187b6-c06f-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:09:57 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=z9hG4bKdf72484fae2
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
 To: <sip:3034050@5.5.5.242>
 Call-ID: 48a1c480-859187b6-c070-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:09:57 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=z9hG4bKdf6def481b
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
 To: <sip:3034050@5.5.5.241>;tag=001a2fcb77d600084cfdb079-060d196e
 Call-ID: 48a1c480-859187b6-c06f-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:09:57 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

Date: Wed, 18 Jun 2008 22:09:58 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00075ae0cff9-77920bf2
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034050" <sip:3034050@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003405
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0006-754f3643-34113d9f@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7a885b5d
 CSeq: 101 INVITE

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

[9] SIP/2.0 180 Ringing

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdf72484fae2
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
 To: <sip:3034050@5.5.5.242>;tag=0018b93bb53e000616b6ccfd-4d01a0e4
 Call-ID: 48a1c480-859187b6-c070-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:09:58 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: [\[prev\]](#)[\[next\]](#)

[10] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdf6def481b
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
 To: <sip:3034050@5.5.5.241>;tag=001a2fcb77d600084cfdb079-060d196e
 Call-ID: 48a1c480-859187b6-c06f-2d050505@5.5.5.45

```
Date: Wed, 18 Jun 2008 22:10:02 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 28200 0 IN IP4 5.5.5.241
s=SIP Call
t=0 0
m=audio 27758 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@5.5.5.242:5060 SIP/2.0
Reason: SIP; cause=200; text="Call completed elsewhere"
Date: Wed, 18 Jun 2008 22:09:58 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
Content-Length: 0
To: <sip:3034050@5.5.5.242>
Call-ID: 48a1c480-859187b6-c070-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdf72484fae2
CSeq: 101 CANCEL
Max-Forwards: 70
```

```
[diagram] Call-ID: [prev][next]
[12] ACK sip:3034050@5.5.5.241:5060 SIP/2.0
Date: Wed, 18 Jun 2008 22:09:58 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
Allow-Events: presence
Content-Length: 205
To: <sip:3034050@5.5.5.241>;tag=001a2fcb77d600084cfdb079-060d196e
Content-Type: application/sdp
Call-ID: 48a1c480-859187b6-c06f-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdf851b3dcbc
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 5.5.5.240
t=0 0
m=audio 29110 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
Date: Wed, 18 Jun 2008 22:09:58 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00075ae0cff9-77920bf2
Allow-Events: presence
Remote-Party-ID: "SIP Basic 3034050" <sip:3034050@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3034050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003405
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0006-754f3643-34113d9f@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7a885b5d
CSeq: 101 INVITE
```

```
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 27758 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

```
Date: Wed, 18 Jun 2008 22:09:58 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00075ae0cff9-77920bf2
Allow-Events: presence
Supported: replaces
Remote-Party-ID: "SIP Basic 3034050" <sip:3034050@5.5.5.45>;party=called;screen=yes;privacy=off
Content-Length: 205
To: <sip:3034050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003405
Contact: <sip:3034010@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 001a2f8d-f17f0006-754f3643-34113d9f@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK7a885b5d
CSeq: 101 INVITE
```

```
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 27758 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=z9hG4bKdf72484fae2
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
To: <sip:3034050@5.5.5.242>;tag=0018b93bb53e000616b6ccfd-4d01a0e4
Call-ID: 48a1c480-859187b6-c070-2d050505@5.5.5.45
Date: Wed, 18 Jun 2008 22:10:03 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=z9hG4bKdf72484fae2
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
To: <sip:3034050@5.5.5.242>;tag=0018b93bb53e000616b6ccfd-4d01a0e4
Call-ID: 48a1c480-859187b6-c070-2d050505@5.5.5.45
Date: Wed, 18 Jun 2008 22:10:03 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

```
Date: Wed, 18 Jun 2008 22:09:58 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
Allow-Events: presence
Content-Length: 0
To: <sip:3034050@5.5.5.242>;tag=0018b93bb53e000616b6ccfd-4d01a0e4
Call-ID: 48a1c480-859187b6-c070-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdf72484fae2
CSeq: 101 ACK
Max-Forwards: 70
```

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

[18] ACK sip:3034010@5.5.5.45:5060 SIP/2.0

```
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4b24dfcf
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00075ae0cff9-77920bf2
To: <sip:3034050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003405
Call-ID: 001a2f8d-f17f0006-754f3643-34113d9f@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 22:10:04 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:3034010@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2e25a022
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00075ae0cff9-77920bf2
To: <sip:3034050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003405
Call-ID: 001a2f8d-f17f0006-754f3643-34113d9f@5.5.5.240
Max-Forwards: 70
Date: Wed, 18 Jun 2008 22:10:10 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

Date: Wed, 18 Jun 2008 22:09:58 GMT
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
Content-Length: 0
User-Agent: Cisco-CUCM7.0
To: <sip:3034050@5.5.5.241>;tag=001a2fcb77d600084cfdb079-060d196e
Call-ID: 48a1c480-859187b6-c06f-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdf927ac17dd
CSeq: 102 BYE
Max-Forwards: 70

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

[21] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 22:10:10 GMT
From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00075ae0cff9-77920bf2
Content-Length: 0
To: <sip:3034050@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003405
Call-ID: 001a2f8d-f17f0006-754f3643-34113d9f@5.5.5.240
Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK2e25a022
CSeq: 102 BYE

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

[22] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKdf927ac17dd
From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003406
To: <sip:3034050@5.5.5.241>;tag=001a2fcb77d600084cfdb079-060d196e
Call-ID: 48a1c480-859187b6-c06f-2d050505@5.5.5.45
Date: Wed, 18 Jun 2008 22:10:10 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

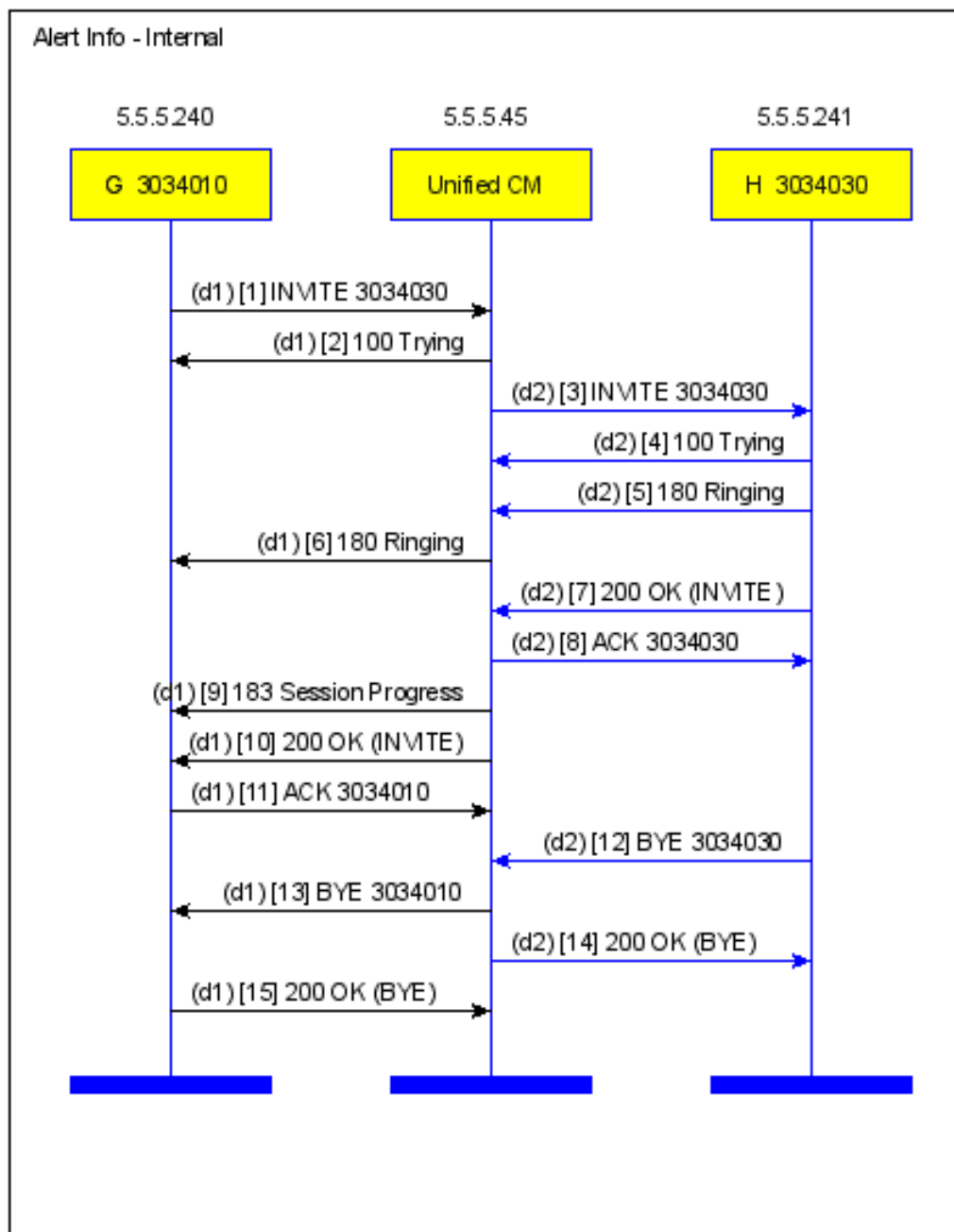
Phone = H, Line = 3034030, IP = 5.5.5.241, Model = SIP Basic

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=z9hG4bK4ebad99e
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00055fa5fa0b-2ee90e82
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-6106fec5-564eadb4@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 22:16:12 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 28428 0 IN IP4 5.5.5.240
 s=SIP Call
 t=0 0
 m=audio 23890 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

Date: Wed, 18 Jun 2008 22:16:12 GMT
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00055fa5fa0b-2ee90e82
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>
 Call-ID: 001a2f8d-f17f0004-6106fec5-564eadb4@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4ebad99e
 CSeq: 101 INVITE

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

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

Date: Wed, 18 Jun 2008 22:16:12 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003408
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: <sip:3034010@5.5.5.45;x-cisco-callback-number=3034010>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034030@5.5.5.241>
 Contact: <sip:3034030@5.5.5.45:5060>
 Expires: 180
 Call-ID: 278da380-8591892c-c085-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe022458bd9c
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr1/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe022458bd9c
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003408
 To: <sip:3034030@5.5.5.241>
 Call-ID: 278da380-8591892c-c085-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:16:12 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=z9hG4bKe022458bd9c
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003408
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600070dade3d6-191fc01d
 Call-ID: 278da380-8591892c-c085-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:16:12 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

Date: Wed, 18 Jun 2008 22:16:12 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00055fa5fa0b-2ee90e82
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003407
 Contact: <sip:3034010@5.5.5.45:5060>
 Call-ID: 001a2f8d-f17f0004-6106fec5-564eadb4@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4ebad99e
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe022458bd9c
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003408
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600070dade3d6-191fc01d
 Call-ID: 278da380-8591892c-c085-2d050505@5.5.5.45
 Date: Wed, 18 Jun 2008 22:16:16 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
 Supported: replaces
 Content-Length: 248
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 9203 0 IN IP4 5.5.5.241
 s=SIP Call
 t=0 0
 m=audio 23354 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

Date: Wed, 18 Jun 2008 22:16:12 GMT
 From: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003408
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600070dade3d6-191fc01d
 Content-Type: application/sdp
 Call-ID: 278da380-8591892c-c085-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe032f24311
 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 5.5.5.240
 t=0 0
 m=audio 23890 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

Date: Wed, 18 Jun 2008 22:16:12 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00055fa5fa0b-2ee90e82
 Allow-Events: presence
 Remote-Party-ID: "SIP Alerting 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003407
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-6106fec5-564eadb4@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4ebad99e
 CSeq: 101 INVITE

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 23354 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

Date: Wed, 18 Jun 2008 22:16:12 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00055fa5fa0b-2ee90e82
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: "SIP Basic 3034030" <sip:3034030@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 205
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003407
 Contact: <sip:3034010@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 001a2f8d-f17f0004-6106fec5-564eadb4@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.240:5060;branch=z9hG4bK4ebad99e
 CSeq: 101 INVITE

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 23354 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 5.5.5.240:5060;branch=z9hG4bK13b5d5f4
 From: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00055fa5fa0b-2ee90e82
 To: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003407
 Call-ID: 001a2f8d-f17f0004-6106fec5-564eadb4@5.5.5.240
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 22:16:18 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=z9hG4bK73bc10b2
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600070dade3d6-191fc01d
 To: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003408
 Call-ID: 278da380-8591892c-c085-2d050505@5.5.5.45
 Max-Forwards: 70
 Date: Wed, 18 Jun 2008 22:16:22 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

Date: Wed, 18 Jun 2008 22:16:18 GMT
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003407
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00055fa5fa0b-2ee90e82
 Call-ID: 001a2f8d-f17f0004-6106fec5-564eadb4@5.5.5.240
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe0412dd79f6
 CSeq: 101 BYE
 Max-Forwards: 70

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

[14] SIP/2.0 200 OK

Date: Wed, 18 Jun 2008 22:16:23 GMT
 From: <sip:3034030@5.5.5.241>;tag=001a2fcb77d600070dade3d6-191fc01d
 Content-Length: 0
 To: "" <sip:3034010@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003408
 Call-ID: 278da380-8591892c-c085-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.241:5060;branch=z9hG4bK73bc10b2
 CSeq: 101 BYE

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

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe0412dd79f6
 From: <sip:3034030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003407
 To: "3034010" <sip:3034010@5.5.5.45>;tag=001a2f8df17f00055fa5fa0b-2ee90e82
 Call-ID: 001a2f8d-f17f0004-6106fec5-564eadb4@5.5.5.240
 Date: Wed, 18 Jun 2008 22:16:23 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:

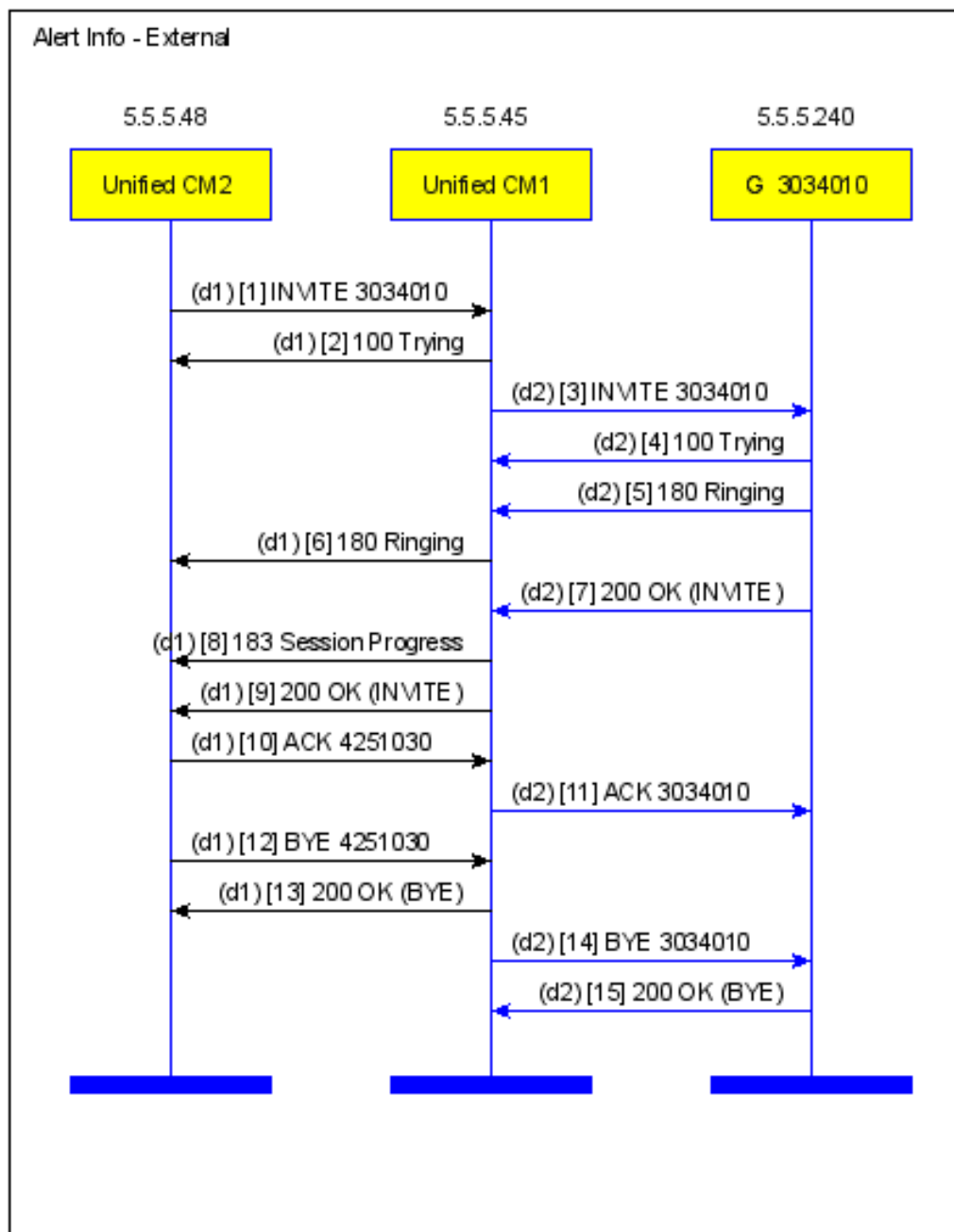
4251030 calls 3034010

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

Date: Thu, 19 Jun 2008 14:33:37 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Craig" <sip:4251030@5.5.5.48>;tag=8ae4bd82-a783-46fb-9e26-d607b72968e5-20996645
 Allow-Events: presence, kpml
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Craig" <sip:4251030@5.5.5.48;x-cisco-callback-number=4251030>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034010@titan-pub.sipnet5.com>
 Contact: <sip:4251030@5.5.5.48:5060>
 Expires: 180
 Call-ID: b2b27c00-85a16e41-11314-30050505@5.5.5.48
 Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bKee76c9e688
 CSeq: 101 INVITE
 Session-Expires: 1800
 Max-Forwards: 70

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

[2] SIP/2.0 100 Trying

Date: Thu, 19 Jun 2008 14:33:37 GMT
 From: "Craig" <sip:4251030@5.5.5.48>;tag=8ae4bd82-a783-46fb-9e26-d607b72968e5-20996645
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3034010@titan-pub.sipnet5.com>
 Call-ID: b2b27c00-85a16e41-11314-30050505@5.5.5.48
 Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bKee76c9e688
 CSeq: 101 INVITE

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

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

Date: Thu, 19 Jun 2008 14:33:37 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Craig" <sip:4251030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003412
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Craig" <sip:4251030@5.5.5.45;x-cisco-callback-number=4251030>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034010@5.5.5.240>
 Contact: <sip:3034010@5.5.5.45:5060>
 Expires: 180
 Call-ID: b2b27c00-85a16e41-c298-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe09cadae9c
 CSeq: 101 INVITE
 Max-Forwards: 69
 Alert-Info: <file://Bellcore-dr2/>

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

[4] SIP/2.0 100 Trying

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe09cadae9c
 From: "Craig" <sip:4251030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003412
 To: <sip:3034010@5.5.5.240>
 Call-ID: b2b27c00-85a16e41-c298-2d050505@5.5.5.45
 Date: Thu, 19 Jun 2008 14:33:38 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=z9hG4bKe09cadae9c
 From: "Craig" <sip:4251030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003412
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f020f00d0bec2-3046c15b
 Call-ID: b2b27c00-85a16e41-c298-2d050505@5.5.5.45
 Date: Thu, 19 Jun 2008 14:33:38 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

Date: Thu, 19 Jun 2008 14:33:37 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Craig" <sip:4251030@5.5.5.48>;tag=8ae4bd82-a783-46fb-9e26-d607b72968e5-20996645
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 0
 To: <sip:3034010@titan-pub.sipnet5.com>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003411
 Contact: <sip:4251030@5.5.5.45:5060>
 Call-ID: b2b27c00-85a16e41-11314-30050505@5.5.5.48
 Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bKee76c9e688
 CSeq: 101 INVITE

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

[7] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe09cadae9c
 From: "Craig" <sip:4251030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003412
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f020f00d0bec2-3046c15b
 Call-ID: b2b27c00-85a16e41-c298-2d050505@5.5.5.45
 Date: Thu, 19 Jun 2008 14:33:41 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 20889 0 IN IP4 5.5.5.240
s=SIP Call
t=0 0
m=audio 31528 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

Date: Thu, 19 Jun 2008 14:33:37 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Craig" <sip:4251030@5.5.5.48>;tag=8ae4bd82-a783-46fb-9e26-d607b72968e5-20996645
 Allow-Events: presence
 Remote-Party-ID: "SIP Basic 3034010" <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 290
 To: <sip:3034010@titan-pub.sipnet5.com>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003411
 Contact: <sip:4251030@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: b2b27c00-85a16e41-11314-30050505@5.5.5.48
 Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bKee76c9e688
 CSeq: 101 INVITE

```
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 31528 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=fmtp:0
a=rtpmap:101 telephone-event/8000
a=fmtp:101 0-15
```

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

[9] SIP/2.0 200 OK

Date: Thu, 19 Jun 2008 14:33:37 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY

From: "Craig" <sip:4251030@5.5.5.48>;tag=8ae4bd82-a783-46fb-9e26-d607b72968e5-20996645
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: <sip:3034010@5.5.5.45>;party=called;screen=yes;privacy=off
 Content-Length: 290
 Require: timer
 To: <sip:3034010@titan-pub.sipnet5.com>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003411
 Contact: <sip:4251030@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: b2b27c00-85a16e41-11314-30050505@5.5.5.48
 Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bKee76c9e688
 CSeq: 101 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 5.5.5.240
 t=0 0
 m=audio 31528 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=fmtp:0
 a=rtpmap:101 telephone-event/8000
 a=fmtp:101 0-15

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

[10] ACK sip:4251030@5.5.5.45:5060 SIP/2.0

Date: Thu, 19 Jun 2008 14:33:37 GMT
 From: "Craig" <sip:4251030@5.5.5.48>;tag=8ae4bd82-a783-46fb-9e26-d607b72968e5-20996645
 Allow-Events: presence, kpml
 Content-Length: 205
 To: <sip:3034010@titan-pub.sipnet5.com>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003411
 Content-Type: application/sdp
 Call-ID: b2b27c00-85a16e41-11314-30050505@5.5.5.48
 Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bKef5316279
 CSeq: 101 ACK
 Max-Forwards: 70

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 21712 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

Date: Thu, 19 Jun 2008 14:33:37 GMT
 From: "Craig" <sip:4251030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003412
 Allow-Events: presence
 Content-Length: 205
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f020f00d0bec2-3046c15b
 Content-Type: application/sdp
 Call-ID: b2b27c00-85a16e41-c298-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe0a49d79876
 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 5.5.5.221
 t=0 0
 m=audio 21712 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:4251030@5.5.5.45:5060 SIP/2.0

Date: Thu, 19 Jun 2008 14:33:37 GMT
 From: "Craig" <sip:4251030@5.5.5.48>;tag=8ae4bd82-a783-46fb-9e26-d607b72968e5-20996645
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034010@titan-pub.sipnet5.com>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003411
 Call-ID: b2b27c00-85a16e41-11314-30050505@5.5.5.48
 Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bKf07d9f9d5c
 CSeq: 102 BYE
 Max-Forwards: 70

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

[13] SIP/2.0 200 OK

Date: Thu, 19 Jun 2008 14:33:44 GMT
 From: "Craig" <sip:4251030@5.5.5.48>;tag=8ae4bd82-a783-46fb-9e26-d607b72968e5-20996645
 Content-Length: 0
 To: <sip:3034010@titan-pub.sipnet5.com>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003411
 Call-ID: b2b27c00-85a16e41-11314-30050505@5.5.5.48
 Via: SIP/2.0/UDP 5.5.5.48:5060;branch=z9hG4bKf07d9f9d5c
 CSeq: 102 BYE

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

[14] BYE sip:3034010@5.5.5.240:5060 SIP/2.0

Date: Thu, 19 Jun 2008 14:33:37 GMT
 From: "Craig" <sip:4251030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003412
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f020f00d0bec2-3046c15b
 Call-ID: b2b27c00-85a16e41-c298-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe0b1d4303f6
 CSeq: 102 BYE
 Max-Forwards: 70

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

[15] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKe0b1d4303f6
 From: "Craig" <sip:4251030@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003412
 To: <sip:3034010@5.5.5.240>;tag=001a2f8df17f020f00d0bec2-3046c15b
 Call-ID: b2b27c00-85a16e41-c298-2d050505@5.5.5.45
 Date: Thu, 19 Jun 2008 14:33:45 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

Phone = F, Line = 3033100, IP = 5.5.5.226, Model = Cisco 7960 Phone

Node = Voicemail Server, IP = 5.5.5.72

Scenario:

3033110 calls 3033100

3033100 does not ring

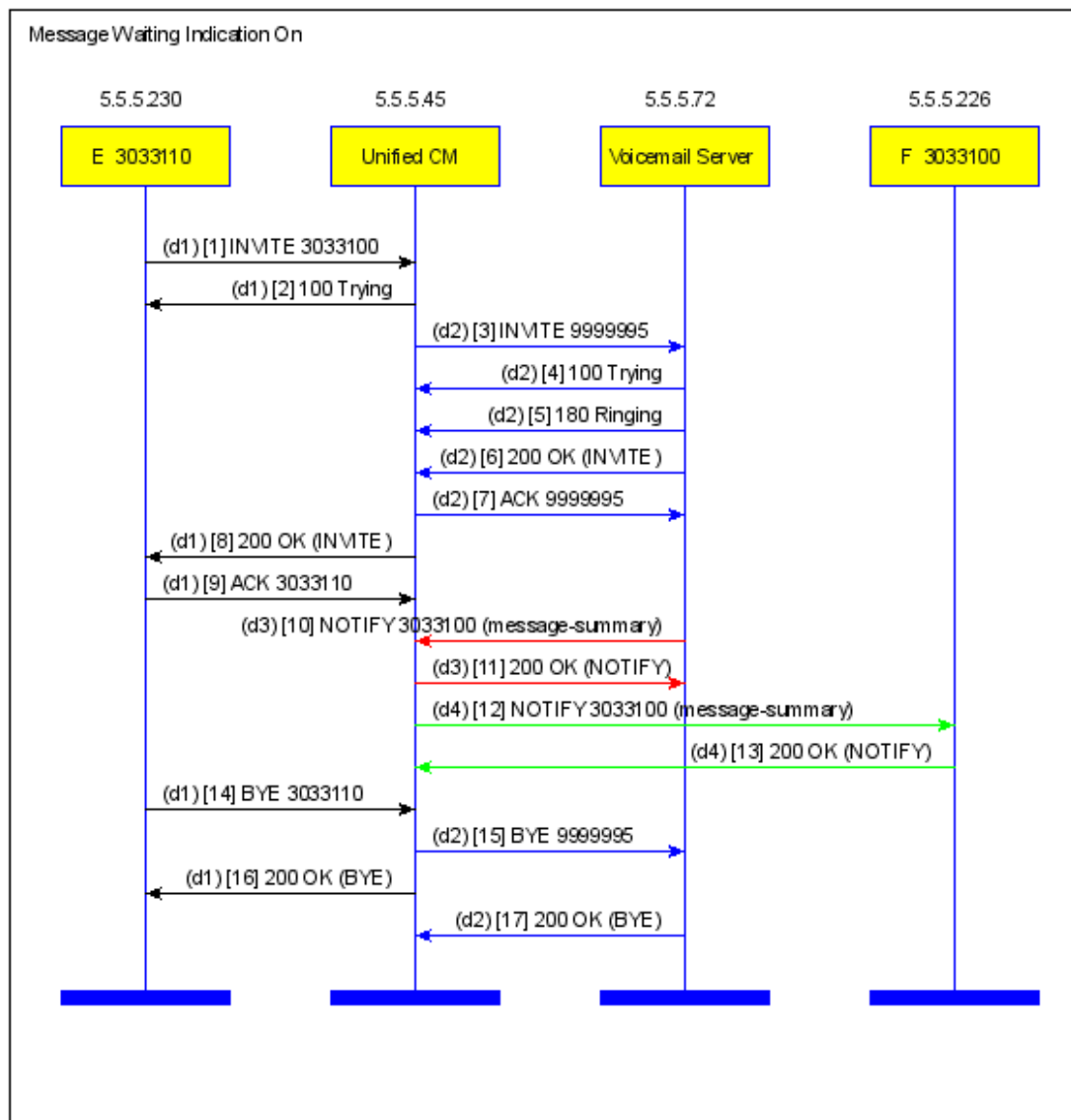
Voicemail server rings and answers

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=z9hG4bK74a4b810
 From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000664bff57f-63365ba0
 To: <sip:3033100@titan-pub>
 Call-ID: 000ab8f5-aa21000b-38987168-1178994f@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: 270
 Content-Type: application/sdp
 Content-Disposition: session;handling=optional

v=0
 o=Cisco-SIPUA 23564 0 IN IP4 5.5.5.230
 s=SIP Call
 t=0 0
 m=audio 27220 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

Date: Tue, 17 Jun 2008 15:31:35 GMT
 From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000664bff57f-63365ba0
 Allow-Events: presence
 Content-Length: 0
 To: <sip:3033100@titan-pub>
 Call-ID: 000ab8f5-aa21000b-38987168-1178994f@5.5.5.230
 Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK74a4b810
 CSeq: 101 INVITE

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

[3] INVITE sip:9999995@janus-unity.sipnet5.com:5090 SIP/2.0

Date: Tue, 17 Jun 2008 15:31:35 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Vicky" <sip:3033110@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003220
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 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;x-cisco-callback-number=3033110>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:9999995@janus-unity.sipnet5.com>
 Contact: <sip:3033110@5.5.5.45:5090;transport=tcp>
 Expires: 180
 Call-ID: 76ebab00-8571d8d7-b522-2d050505@5.5.5.45
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bKbf820a449a0
 CSeq: 101 INVITE
 Session-Expires: 1800
 Max-Forwards: 69

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

[4] SIP/2.0 100 Trying

From: "Vicky" <sip:3033110@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003220
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=452607E48075448D93DADCA6EBE553DB
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bKbf820a449a0
 Call-ID: 76ebab00-8571d8d7-b522-2d050505@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=898c2d5a-0602-448e-9575-fc5f217f87d0-21003220
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=452607E48075448D93DADCA6EBE553DB
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bKbf820a449a0
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bKbf820a449a0

Call-ID: 76ebab00-8571d8d7-b522-2d050505@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=898c2d5a-0602-448e-9575-fc5f217f87d0-21003220
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=452607E48075448D93DADCA6EBE553DB
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bKbf820a449a0
 Contact: sip:9999995@5.5.5.72:5090
 Call-ID: 76ebab00-8571d8d7-b522-2d050505@5.5.5.45
 CSeq: 101 INVITE
 Content-Length: 247
 Content-Type: application/sdp

```
v=0
o=5.5.5.72 374818737 374818737 IN IP4 5.5.5.72
s=No Subject
c=IN IP4 5.5.5.72
t=0 0
m=audio 22800 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

Date: Tue, 17 Jun 2008 15:31:35 GMT
 From: "Vicky" <sip:3033110@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003220
 Allow-Events: presence
 Content-Length: 205
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=452607E48075448D93DADCA6EBE553DB
 Content-Type: application/sdp
 Call-ID: 76ebab00-8571d8d7-b522-2d050505@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bKbf970740315
 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 5.5.5.230
t=0 0
m=audio 27220 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/2.0 200 OK

Date: Tue, 17 Jun 2008 15:31:35 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000664bff57f-63365ba0
 Allow-Events: presence
 Supported: replaces
 Remote-Party-ID: <sip:9999995@5.5.5.45>;party=called;screen=no;privacy=off
 Content-Length: 204
 To: <sip:3033100@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003217
 Contact: <sip:3033110@5.5.5.45:5060>
 Content-Type: application/sdp
 Call-ID: 000ab8f5-aa21000b-38987168-1178994f@5.5.5.230
 Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK74a4b810
 CSeq: 101 INVITE

```
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 22800 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] ACK sip:3033110@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK6b310053

From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000664bff57f-63365ba0

To: <sip:3033100@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003217

Call-ID: 000ab8f5-aa21000b-38987168-1178994f@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: [\[prev\]](#)[\[next\]](#)

[10] NOTIFY sip:3033100@5.5.5.45 SIP/2.0

From: sip:9999995@5.5.5.72:5090;tag=632E3D9948D3416885669754DFBED40B

To: sip:3033100@5.5.5.45

Via: SIP/2.0/UDP 5.5.5.72:5090;branch=z9hG4bKB3840E0CB4484382802FD85331E1A03D

Max-Forwards: 70

Contact: sip:9999995@5.5.5.72:5090

Call-ID: F1251E63E71F46FF99E0D64E76814701@5.5.5.45

CSeq: 300 NOTIFY

Event: message-summary

Content-Length: 23

Content-Type: text/plain

Messages-Waiting: yes

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

[11] SIP/2.0 200 OK

Date: Tue, 17 Jun 2008 15:31:43 GMT

From: sip:9999995@5.5.5.72:5090;tag=632E3D9948D3416885669754DFBED40B

Content-Length: 0

To: sip:3033100@5.5.5.45;tag=1713083499

Call-ID: F1251E63E71F46FF99E0D64E76814701@5.5.5.45

Via: SIP/2.0/UDP 5.5.5.72:5090;branch=z9hG4bKB3840E0CB4484382802FD85331E1A03D

CSeq: 300 NOTIFY

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

[12] NOTIFY sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0

Date: Tue, 17 Jun 2008 15:31:44 GMT

From: <sip:3033100@5.5.5.45>;tag=994955695

Event: message-summary

Content-Length: 23

User-Agent: Cisco-CUCM7.0

To: <sip:3033100@5.5.5.226>

Contact: <sip:3033100@5.5.5.45:5060>

Content-Type: application/simple-message-summary

Call-ID: 7c48f580-8571d8e0-b523-2d050505@5.5.5.45

Subscription-State: active

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKbfa50f397a

CSeq: 101 NOTIFY

Max-Forwards: 70

Messages-Waiting: yes

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

[13] SIP/2.0 200 OK

Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKbfa50f397a

From: <sip:3033100@5.5.5.45>;tag=994955695

To: <sip:3033100@5.5.5.226>

Call-ID: 7c48f580-8571d8e0-b523-2d050505@5.5.5.45

CSeq: 101 NOTIFY

Content-Length: 0

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

[14] BYE sip:3033110@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK008ddb58

From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000664bff57f-63365ba0

To: <sip:3033100@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003217

Call-ID: 000ab8f5-aa21000b-38987168-1178994f@5.5.5.230

Max-Forwards: 70

CSeq: 102 BYE

User-Agent: Cisco-CP7960G/8.0

Content-Length: 0

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

[15] BYE sip:9999995@5.5.5.72:5090 SIP/2.0

Date: Tue, 17 Jun 2008 15:31:35 GMT

From: "Vicky" <sip:3033110@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003220

Content-Length: 0

User-Agent: Cisco-CUCM7.0
To: <sip:9999995@janus-unity.sipnet5.com>;tag=452607E48075448D93DADCA6EBE553DB
Call-ID: 76ebab00-8571d8d7-b522-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bKbfb19cc926
CSeq: 102 BYE
Max-Forwards: 70

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

[16] SIP/2.0 200 OK

Date: Tue, 17 Jun 2008 15:31:45 GMT
From: "Vicky" <sip:3033110@titan-pub>;tag=000ab8f5aa21000664bfff57f-63365ba0
Content-Length: 0
To: <sip:3033100@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003217
Call-ID: 000ab8f5-aa21000b-38987168-1178994f@5.5.5.230
Via: SIP/2.0/UDP 5.5.5.230:5060;branch=z9hG4bK008ddb58
CSeq: 102 BYE

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

[17] SIP/2.0 200 OK

From: "Vicky" <sip:3033110@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003220
To: <sip:9999995@janus-unity.sipnet5.com>;tag=452607E48075448D93DADCA6EBE553DB
Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bKbfb19cc926
Call-ID: 76ebab00-8571d8d7-b522-2d050505@5.5.5.45
CSeq: 102 BYE
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

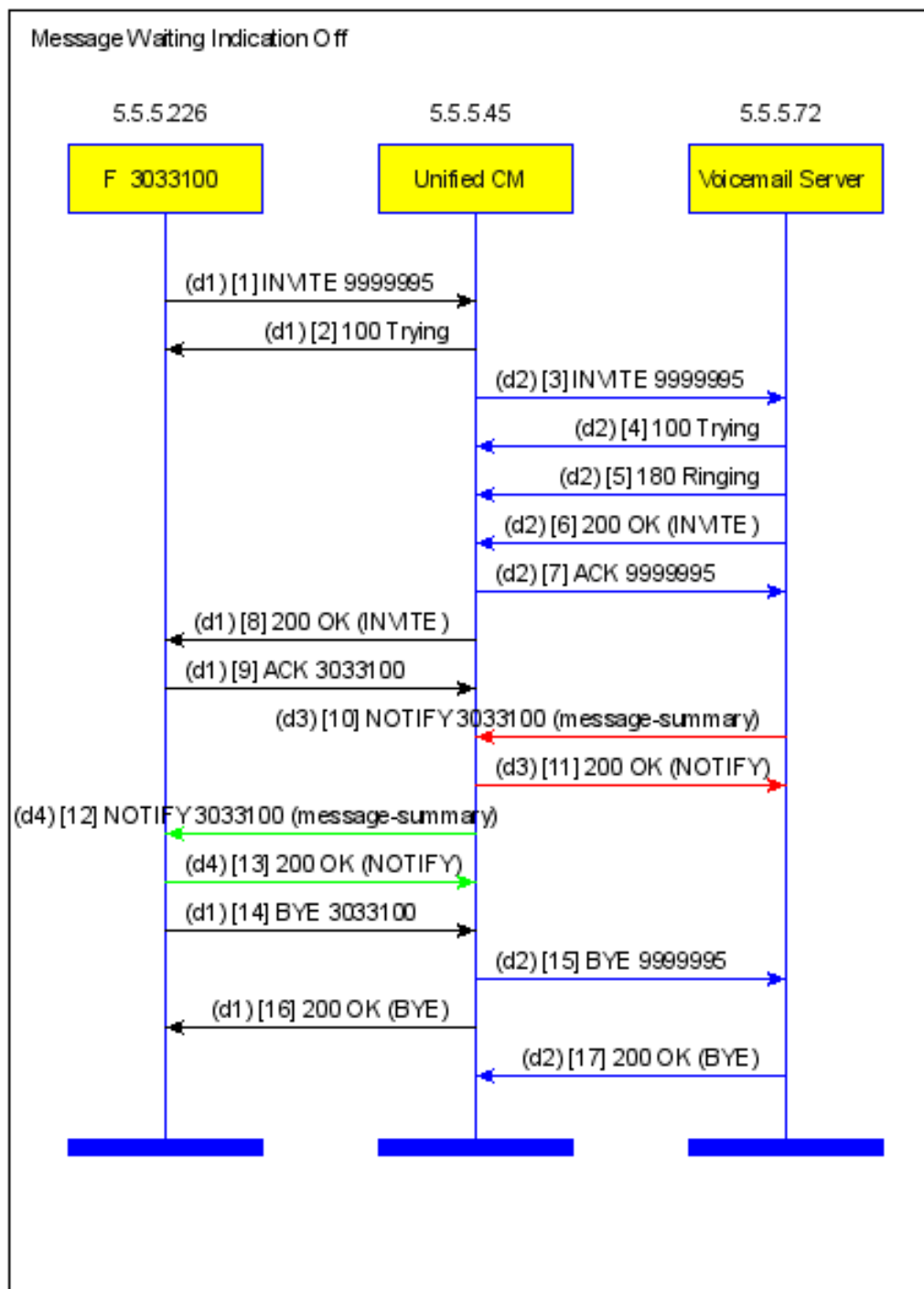
Voicemail server rings and answers

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=z9hG4bK34072c8d
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000f4829b754-7422d14e
 To: <sip:9999995@titan-pub>
 Call-ID: 000ab8f5-aadf0006-504bf480-4ab75f21@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 17687 0 IN IP4 5.5.5.226
 s=SIP Call
 t=0 0
 m=audio 16400 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

Date: Mon, 16 Jun 2008 21:07:10 GMT
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000f4829b754-7422d14e
 Allow-Events: presence
 Content-Length: 0
 To: <sip:9999995@titan-pub>
 Call-ID: 000ab8f5-aadf0006-504bf480-4ab75f21@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK34072c8d
 CSeq: 101 INVITE

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

[3] INVITE sip:9999995@janus-unity.sipnet5.com:5090 SIP/2.0

Date: Mon, 16 Jun 2008 21:07:10 GMT
 Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003182
 Allow-Events: presence
 Supported: timer,resource-priority,replaces
 Min-SE: 1800
 Remote-Party-ID: "Tripti" <sip:3033100@5.5.5.45;x-cisco-callback-number=3033100>;party=calling;screen=yes;privacy=off
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:9999995@janus-unity.sipnet5.com>
 Contact: <sip:3033100@5.5.5.45:5090;transport=tcp>
 Expires: 180
 Call-ID: 2de71880-8561d5fe-b2ae-2d050505@5.5.5.45
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bKbca3c57aebb
 CSeq: 101 INVITE
 Session-Expires: 1800
 Max-Forwards: 69

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

[4] SIP/2.0 100 Trying

From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003182
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=398F0717EC314FC881E8E6627E09B1ED
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bKbca3c57aebb
 Call-ID: 2de71880-8561d5fe-b2ae-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=898c2d5a-0602-448e-9575-fc5f217f87d0-21003182
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=398F0717EC314FC881E8E6627E09B1ED
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bKbca3c57aebb
 Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bKbca3c57aebb
 Call-ID: 2de71880-8561d5fe-b2ae-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=898c2d5a-0602-448e-9575-fc5f217f87d0-21003182
To: <sip:9999995@janus-unity.sipnet5.com>;tag=398F0717EC314FC881E8E6627E09B1ED
Via: SIP/2.0/TCP 5.5.5.45:5090;branch=z9hG4bKbca3c57aebb
Contact: sip:9999995@5.5.5.72:5090
Call-ID: 2de71880-8561d5fe-b2ae-2d050505@5.5.5.45
CSeq: 101 INVITE
Content-Length: 247
Content-Type: application/sdp

```
v=0
o=5.5.5.72 308554252 308554252 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

Date: Mon, 16 Jun 2008 21:07:10 GMT
From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003182
Allow-Events: presence
Content-Length: 205
To: <sip:9999995@janus-unity.sipnet5.com>;tag=398F0717EC314FC881E8E6627E09B1ED
Content-Type: application/sdp
Call-ID: 2de71880-8561d5fe-b2ae-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bKbcb2fa75932
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 5.5.5.226
t=0 0
m=audio 16400 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/2.0 200 OK

Date: Mon, 16 Jun 2008 21:07:10 GMT
Allow: INVITE, OPTIONS, INFO, BYE, CANCEL, ACK, PRACK, UPDATE, REFER, SUBSCRIBE, NOTIFY
From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000f4829b754-7422d14e
Allow-Events: presence
Supported: replaces
Remote-Party-ID: <sip:9999995@5.5.5.45>;party=called;screen=no;privacy=off
Content-Length: 204
To: <sip:9999995@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003181
Contact: <sip:3033100@5.5.5.45:5060>
Content-Type: application/sdp
Call-ID: 000ab8f5-aadf0006-504bf480-4ab75f21@5.5.5.226
Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK34072c8d
CSeq: 101 INVITE

```
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] ACK sip:3033100@5.5.5.45:5060 SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK4739941c
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000f4829b754-7422d14e
 To: <sip:9999995@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003181
 Call-ID: 000ab8f5-aadf0006-504bf480-4ab75f21@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: [\[prev\]](#) [\[next\]](#)

[10] NOTIFY sip:3033100@5.5.5.45 SIP/2.0
 From: sip:9999995@5.5.5.72:5090;tag=92962B7C1F084063A23E7449BDCDCB5A
 To: sip:3033100@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.72:5090;branch=z9hG4bKDD9BFC703F4F4708A4CF376DF9CAD8D4
 Max-Forwards: 70
 Contact: sip:9999995@5.5.5.72:5090
 Call-ID: A9261A7F79504EFBBE1CA6C5DDF5E0F3@5.5.5.45
 CSeq: 300 NOTIFY
 Event: message-summary
 Content-Length: 22
 Content-Type: text/plain

Messages-Waiting: no

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

[11] SIP/2.0 200 OK
 Date: Mon, 16 Jun 2008 21:07:27 GMT
 From: sip:9999995@5.5.5.72:5090;tag=92962B7C1F084063A23E7449BDCDCB5A
 Content-Length: 0
 To: sip:3033100@5.5.5.45;tag=1336203960
 Call-ID: A9261A7F79504EFBBE1CA6C5DDF5E0F3@5.5.5.45
 Via: SIP/2.0/UDP 5.5.5.72:5090;branch=z9hG4bKDD9BFC703F4F4708A4CF376DF9CAD8D4
 CSeq: 300 NOTIFY

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

[12] NOTIFY sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0
 Date: Mon, 16 Jun 2008 21:07:27 GMT
 From: <sip:3033100@5.5.5.45>;tag=1232448855
 Event: message-summary
 Content-Length: 22
 User-Agent: Cisco-CUCM7.0
 To: <sip:3033100@5.5.5.226>
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Call-ID: 38091700-8561d60f-b2b0-2d050505@5.5.5.45
 Subscription-State: active
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKbcc725ddb06
 CSeq: 101 NOTIFY
 Max-Forwards: 70

Messages-Waiting: no

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

[13] SIP/2.0 200 OK
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bKbcc725ddb06
 From: <sip:3033100@5.5.5.45>;tag=1232448855
 To: <sip:3033100@5.5.5.226>
 Call-ID: 38091700-8561d60f-b2b0-2d050505@5.5.5.45
 CSeq: 101 NOTIFY
 Content-Length: 0

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

[14] BYE sip:3033100@5.5.5.45:5060 SIP/2.0
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK67891269
 From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000f4829b754-7422d14e
 To: <sip:9999995@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003181
 Call-ID: 000ab8f5-aadf0006-504bf480-4ab75f21@5.5.5.226
 Max-Forwards: 70
 CSeq: 102 BYE
 User-Agent: Cisco-CP7960G/8.0
 Content-Length: 0

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

[15] BYE sip:9999995@5.5.5.72:5090 SIP/2.0
 Date: Mon, 16 Jun 2008 21:07:10 GMT
 From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003182
 Content-Length: 0
 User-Agent: Cisco-CUCM7.0
 To: <sip:9999995@janus-unity.sipnet5.com>;tag=398F0717EC314FC881E8E6627E09B1ED

Call-ID: 2de71880-8561d5fe-b2ae-2d050505@5.5.5.45
Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bKbcd2cce3ec9
CSeq: 102 BYE
Max-Forwards: 70

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

[16] SIP/2.0 200 OK

Date: Mon, 16 Jun 2008 21:07:45 GMT

From: "Tripti" <sip:3033100@titan-pub>;tag=000ab8f5aadf000f4829b754-7422d14e

Content-Length: 0

To: <sip:9999995@titan-pub>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003181

Call-ID: 000ab8f5-aadf0006-504bf480-4ab75f21@5.5.5.226

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK67891269

CSeq: 102 BYE

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

[17] SIP/2.0 200 OK

From: "Tripti" <sip:3033100@5.5.5.45>;tag=898c2d5a-0602-448e-9575-fc5f217f87d0-21003182

To: <sip:9999995@janus-unity.sipnet5.com>;tag=398F0717EC314FC881E8E6627E09B1ED

Via: SIP/2.0/UDP 5.5.5.45:5090;branch=z9hG4bKbcd2cce3ec9

Call-ID: 2de71880-8561d5fe-b2ae-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

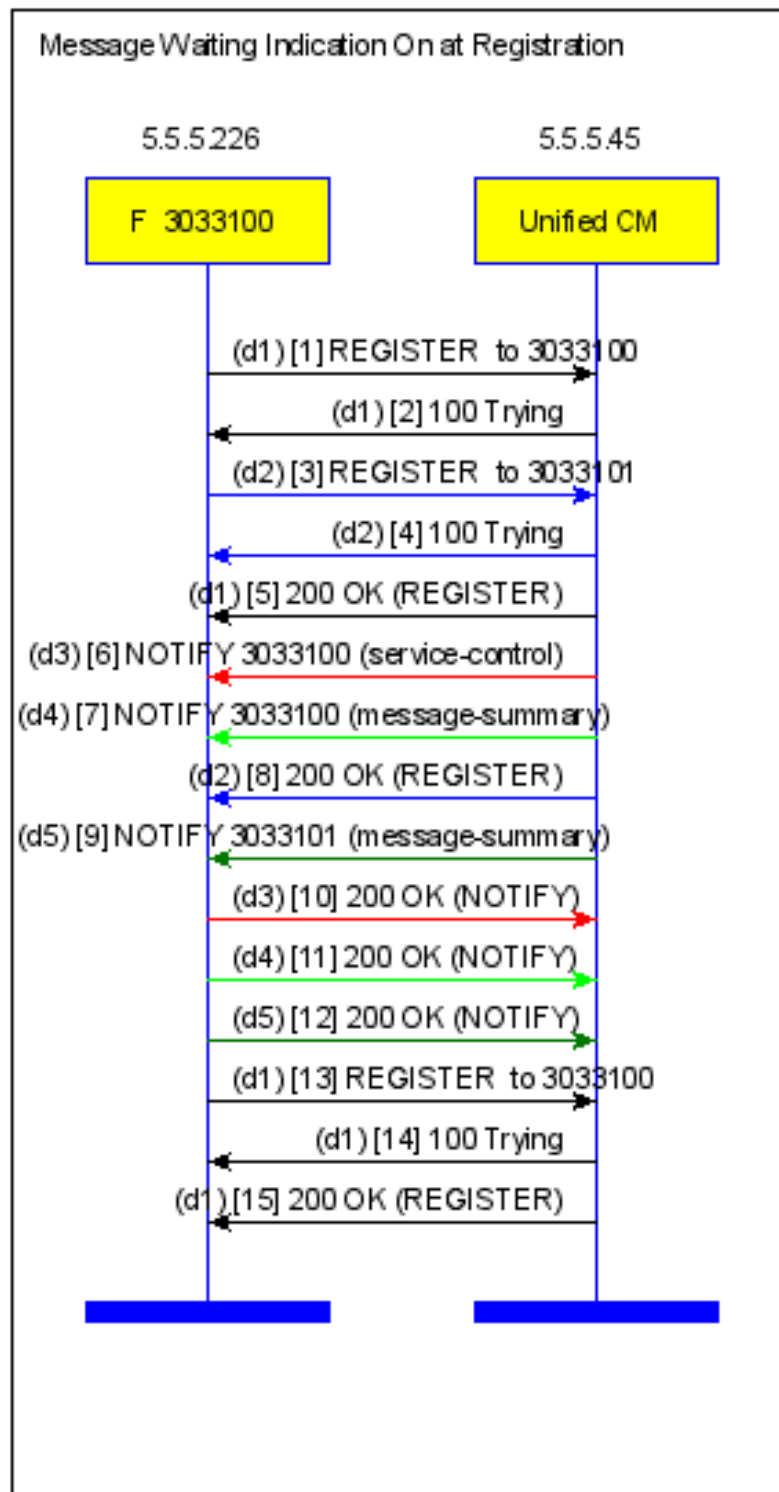
Phone = F, Line = 3033100, IP = 5.5.5.226, Model = Cisco Unified IP Phone 7960 (SIP)

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=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-service-control
 Content-Length: 0
 Expires: 3600

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

[2] SIP/2.0 100 Trying

Date: Mon, 30 Jun 2008 17:27:39 GMT
 From: <sip:3033100@titan-pub>;tag=000ab8f5aadf0002332f01b9-264ec9f6
 Content-Length: 0
 To: <sip:3033100@titan-pub>
 Call-ID: 000ab8f5-aadf0003-6ae62a1e-281a3955@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK33df99ea
 CSeq: 101 REGISTER

[\[diagram\]](#) 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-service-control
 Content-Length: 0
 Expires: 3600

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

[4] SIP/2.0 100 Trying

Date: Mon, 30 Jun 2008 17:27:39 GMT
 From: <sip:3033101@titan-pub>;tag=000ab8f5aadf00032b576e6a-2a0497bc
 Content-Length: 0
 To: <sip:3033101@titan-pub>
 Call-ID: 000ab8f5-aadf0004-4df16151-60dd376c@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK53cc955c
 CSeq: 101 REGISTER

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

[5] SIP/2.0 200 OK

Date: Mon, 30 Jun 2008 17:27:39 GMT
 From: <sip:3033100@titan-pub>;tag=000ab8f5aadf0002332f01b9-264ec9f6
 Supported: X-cisco-sis-3.0.0
 Content-Length: 0
 To: <sip:3033100@titan-pub>;tag=1900664350
 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
 Expires: 120
 Call-ID: 000ab8f5-aadf0003-6ae62a1e-281a3955@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK33df99ea
 CSeq: 101 REGISTER

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

[6] NOTIFY sip:3033100@5.5.5.226:5060 SIP/2.0

Date: Mon, 30 Jun 2008 17:27:40 GMT
 From: <sip:5.5.5.45>;tag=1493586404
 Event: service-control
 Content-Length: 226
 User-Agent: Cisco-CUCM7.0
 To: <sip:3033100@5.5.5.226>
 Contact: <sip:5.5.5.45:5060>
 Content-Type: text/plain
 Call-ID: d5c11380-8691178c-a2a8-2d050505@5.5.5.45
 Subscription-State: active
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK586112ccba5
 CSeq: 101 NOTIFY
 Max-Forwards: 70


```

action=check-version
RegisterCallId={000ab8f5-aadf0003-6ae62a1e-281a3955@5.5.5.226}
ConfigVersionStamp={1214335665-ca1a4625-ffa7-4076-ac3c-fa3ab121b76c}
DialplanVersionStamp={1181674057-2b63c435-8aa1-4951-ac6f-d408fee18900}

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)
[7] NOTIFY sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0
 Date: Mon, 30 Jun 2008 17:27:40 GMT
 From: <sip:3033100@5.5.5.45>;tag=1391299422
 Event: message-summary
 Content-Length: 23
 User-Agent: Cisco-CUCM7.0
 To: <sip:3033100@5.5.5.226>
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Call-ID: d5c11380-8691178c-a2a9-2d050505@5.5.5.45
 Subscription-State: active
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5872bd3d08
 CSeq: 101 NOTIFY
 Max-Forwards: 70

Messages-Waiting: yes

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)
[8] SIP/2.0 200 OK
 Date: Mon, 30 Jun 2008 17:27:39 GMT
 From: <sip:3033101@titan-pub>;tag=000ab8f5aadf00032b576e6a-2a0497bc
 Supported: X-cisco-sis-3.0.0
 Content-Length: 0
 To: <sip:3033101@titan-pub>;tag=378521482
 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
 Expires: 3600
 Call-ID: 000ab8f5-aadf0004-4df16151-60dd376c@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK53cc955c
 CSeq: 101 REGISTER

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)
[9] NOTIFY sip:3033101@5.5.5.226:5060;transport=udp SIP/2.0
 Date: Mon, 30 Jun 2008 17:27:40 GMT
 From: <sip:3033101@5.5.5.45>;tag=995722381
 Event: message-summary
 Content-Length: 22
 User-Agent: Cisco-CUCM7.0
 To: <sip:3033101@5.5.5.226>
 Contact: <sip:3033101@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Call-ID: d5c11380-8691178c-a2aa-2d050505@5.5.5.45
 Subscription-State: active
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5885b237507
 CSeq: 101 NOTIFY
 Max-Forwards: 70

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=z9hG4bK586112ccba5
 From: <sip:5.5.5.45>;tag=1493586404
 To: <sip:3033100@5.5.5.226>
 Call-ID: d5c11380-8691178c-a2a8-2d050505@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=z9hG4bK5872bd3d08
 From: <sip:3033100@5.5.5.45>;tag=1391299422
 To: <sip:3033100@5.5.5.226>
 Call-ID: d5c11380-8691178c-a2a9-2d050505@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=z9hG4bK5885b237507
 From: <sip:3033101@5.5.5.45>;tag=995722381
 To: <sip:3033101@5.5.5.226>
 Call-ID: d5c11380-8691178c-a2aa-2d050505@5.5.5.45
 CSeq: 101 NOTIFY

Content-Length: 0

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

[13] REGISTER sip:titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK41eaf033

From: <sip:3033100@titan-pub>;tag=000ab8f5aadf0005557b469f-2117299a

To: <sip:3033100@titan-pub>

Call-ID: 000ab8f5-aadf0003-6ae62a1e-281a3955@5.5.5.226

Max-Forwards: 70

CSeq: 102 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-service-control

Content-Length: 0

Expires: 3600

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

[14] SIP/2.0 100 Trying

Date: Mon, 30 Jun 2008 17:29:35 GMT

From: <sip:3033100@titan-pub>;tag=000ab8f5aadf0005557b469f-2117299a

Content-Length: 0

To: <sip:3033100@titan-pub>

Call-ID: 000ab8f5-aadf0003-6ae62a1e-281a3955@5.5.5.226

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK41eaf033

CSeq: 102 REGISTER

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

[15] SIP/2.0 200 OK

Date: Mon, 30 Jun 2008 17:29:35 GMT

From: <sip:3033100@titan-pub>;tag=000ab8f5aadf0005557b469f-2117299a

Supported: X-cisco-sis-3.0.0

Content-Length: 0

To: <sip:3033100@titan-pub>;tag=266372493

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"

Expires: 120

Call-ID: 000ab8f5-aadf0003-6ae62a1e-281a3955@5.5.5.226

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK41eaf033

CSeq: 102 REGISTER

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 Unified IP Phone 7960 (SIP)

Scenario:

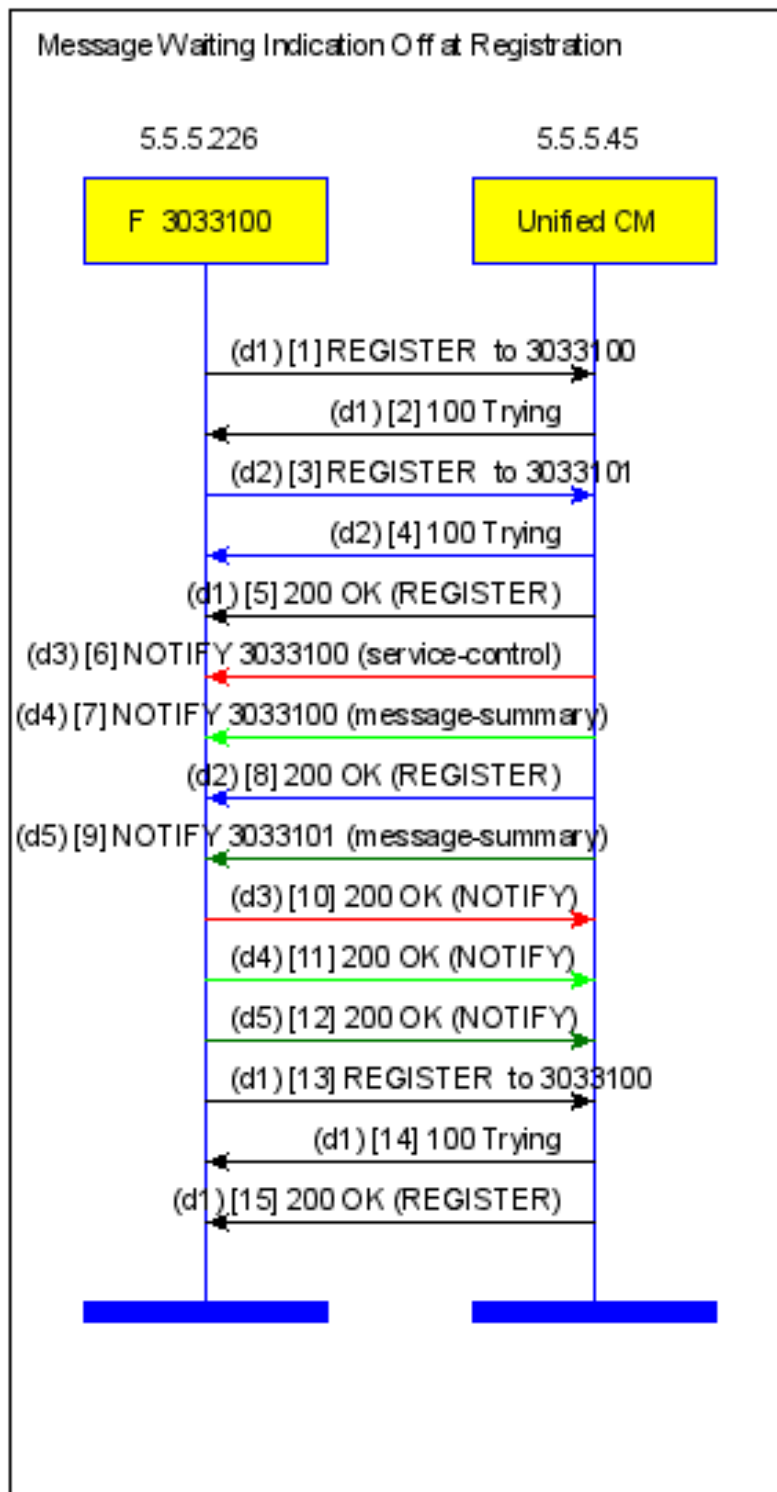
Phone F is powered on

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=z9hG4bK0b1c6b5b
 From: <sip:3033100@titan-pub>;tag=000ab8f5aadf000251cb63fe-37045c8a
 To: <sip:3033100@titan-pub>
 Call-ID: 000ab8f5-aadf0003-0b45926f-3f96e6b5@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-service-control
 Content-Length: 0
 Expires: 3600

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

[2] SIP/2.0 100 Trying

Date: Mon, 30 Jun 2008 17:16:20 GMT
 From: <sip:3033100@titan-pub>;tag=000ab8f5aadf000251cb63fe-37045c8a
 Content-Length: 0
 To: <sip:3033100@titan-pub>
 Call-ID: 000ab8f5-aadf0003-0b45926f-3f96e6b5@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK0b1c6b5b
 CSeq: 101 REGISTER

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

[3] REGISTER sip:titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK312dadbe
 From: <sip:3033101@titan-pub>;tag=000ab8f5aadf000371f8d3c8-006b9c18
 To: <sip:3033101@titan-pub>
 Call-ID: 000ab8f5-aadf0004-2fc21543-27056e61@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-service-control
 Content-Length: 0
 Expires: 3600

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

[4] SIP/2.0 100 Trying

Date: Mon, 30 Jun 2008 17:16:20 GMT
 From: <sip:3033101@titan-pub>;tag=000ab8f5aadf000371f8d3c8-006b9c18
 Content-Length: 0
 To: <sip:3033101@titan-pub>
 Call-ID: 000ab8f5-aadf0004-2fc21543-27056e61@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK312dadbe
 CSeq: 101 REGISTER

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

[5] SIP/2.0 200 OK

Date: Mon, 30 Jun 2008 17:16:20 GMT
 From: <sip:3033100@titan-pub>;tag=000ab8f5aadf000251cb63fe-37045c8a
 Supported: X-cisco-sis-3.0.0
 Content-Length: 0
 To: <sip:3033100@titan-pub>;tag=1605890631
 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
 Expires: 120
 Call-ID: 000ab8f5-aadf0003-0b45926f-3f96e6b5@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK0b1c6b5b
 CSeq: 101 REGISTER

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

[6] NOTIFY sip:3033100@5.5.5.226:5060 SIP/2.0

Date: Mon, 30 Jun 2008 17:16:20 GMT
 From: <sip:5.5.5.45>;tag=1346179639
 Event: service-control
 Content-Length: 226
 User-Agent: Cisco-CUCM7.0
 To: <sip:3033100@5.5.5.226>
 Contact: <sip:5.5.5.45:5060>
 Content-Type: text/plain
 Call-ID: 40714f80-869114e4-a29d-2d050505@5.5.5.45
 Subscription-State: active
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK58219e8dfae
 CSeq: 101 NOTIFY
 Max-Forwards: 70

```

action=check-version
RegisterCallId={000ab8f5-aadf0003-0b45926f-3f96e6b5@5.5.5.226}
ConfigVersionStamp={1214335665-ca1a4625-ffa7-4076-ac3c-fa3ab121b76c}
DialplanVersionStamp={1181674057-2b63c435-8aa1-4951-ac6f-d408fee18900}

```

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)
[7] NOTIFY sip:3033100@5.5.5.226:5060;transport=udp SIP/2.0
 Date: Mon, 30 Jun 2008 17:16:20 GMT
 From: <sip:3033100@5.5.5.45>;tag=1690432269
 Event: message-summary
 Content-Length: 22
 User-Agent: Cisco-CUCM7.0
 To: <sip:3033100@5.5.5.226>
 Contact: <sip:3033100@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Call-ID: 40714f80-869114e4-a29e-2d050505@5.5.5.45
 Subscription-State: active
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK583647d76ce
 CSeq: 101 NOTIFY
 Max-Forwards: 70

Messages-Waiting: no

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)
[8] SIP/2.0 200 OK
 Date: Mon, 30 Jun 2008 17:16:20 GMT
 From: <sip:3033101@titan-pub>;tag=000ab8f5aadf000371f8d3c8-006b9c18
 Supported: X-cisco-sis-3.0.0
 Content-Length: 0
 To: <sip:3033101@titan-pub>;tag=155891328
 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
 Expires: 3600
 Call-ID: 000ab8f5-aadf0004-2fc21543-27056e61@5.5.5.226
 Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK312dadbe
 CSeq: 101 REGISTER

[\[diagram\]](#) Call-ID: [\[prev\]](#) [\[next\]](#)
[9] NOTIFY sip:3033101@5.5.5.226:5060;transport=udp SIP/2.0
 Date: Mon, 30 Jun 2008 17:16:20 GMT
 From: <sip:3033101@5.5.5.45>;tag=1412834620
 Event: message-summary
 Content-Length: 22
 User-Agent: Cisco-CUCM7.0
 To: <sip:3033101@5.5.5.226>
 Contact: <sip:3033101@5.5.5.45:5060>
 Content-Type: application/simple-message-summary
 Call-ID: 40714f80-869114e4-a29f-2d050505@5.5.5.45
 Subscription-State: active
 Via: SIP/2.0/UDP 5.5.5.45:5060;branch=z9hG4bK5848e9739f
 CSeq: 101 NOTIFY
 Max-Forwards: 70

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=z9hG4bK58219e8dfae
 From: <sip:5.5.5.45>;tag=1346179639
 To: <sip:3033100@5.5.5.226>
 Call-ID: 40714f80-869114e4-a29d-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=z9hG4bK583647d76ce
 From: <sip:3033100@5.5.5.45>;tag=1690432269
 To: <sip:3033100@5.5.5.226>
 Call-ID: 40714f80-869114e4-a29e-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=z9hG4bK5848e9739f
 From: <sip:3033101@5.5.5.45>;tag=1412834620
 To: <sip:3033101@5.5.5.226>
 Call-ID: 40714f80-869114e4-a29f-2d050505@5.5.5.45
 CSeq: 101 NOTIFY

Content-Length: 0

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

[13] REGISTER sip:titan-pub SIP/2.0

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK61fb9401

From: <sip:3033100@titan-pub>;tag=000ab8f5aadf00054bfef9c1-1afe9e63

To: <sip:3033100@titan-pub>

Call-ID: 000ab8f5-aadf0003-0b45926f-3f96e6b5@5.5.5.226

Max-Forwards: 70

CSeq: 102 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-service-control

Content-Length: 0

Expires: 3600

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

[14] SIP/2.0 100 Trying

Date: Mon, 30 Jun 2008 17:18:15 GMT

From: <sip:3033100@titan-pub>;tag=000ab8f5aadf00054bfef9c1-1afe9e63

Content-Length: 0

To: <sip:3033100@titan-pub>

Call-ID: 000ab8f5-aadf0003-0b45926f-3f96e6b5@5.5.5.226

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK61fb9401

CSeq: 102 REGISTER

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

[15] SIP/2.0 200 OK

Date: Mon, 30 Jun 2008 17:18:15 GMT

From: <sip:3033100@titan-pub>;tag=000ab8f5aadf00054bfef9c1-1afe9e63

Supported: X-cisco-sis-3.0.0

Content-Length: 0

To: <sip:3033100@titan-pub>;tag=1834140063

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"

Expires: 120

Call-ID: 000ab8f5-aadf0003-0b45926f-3f96e6b5@5.5.5.226

Via: SIP/2.0/UDP 5.5.5.226:5060;branch=z9hG4bK61fb9401

CSeq: 102 REGISTER

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

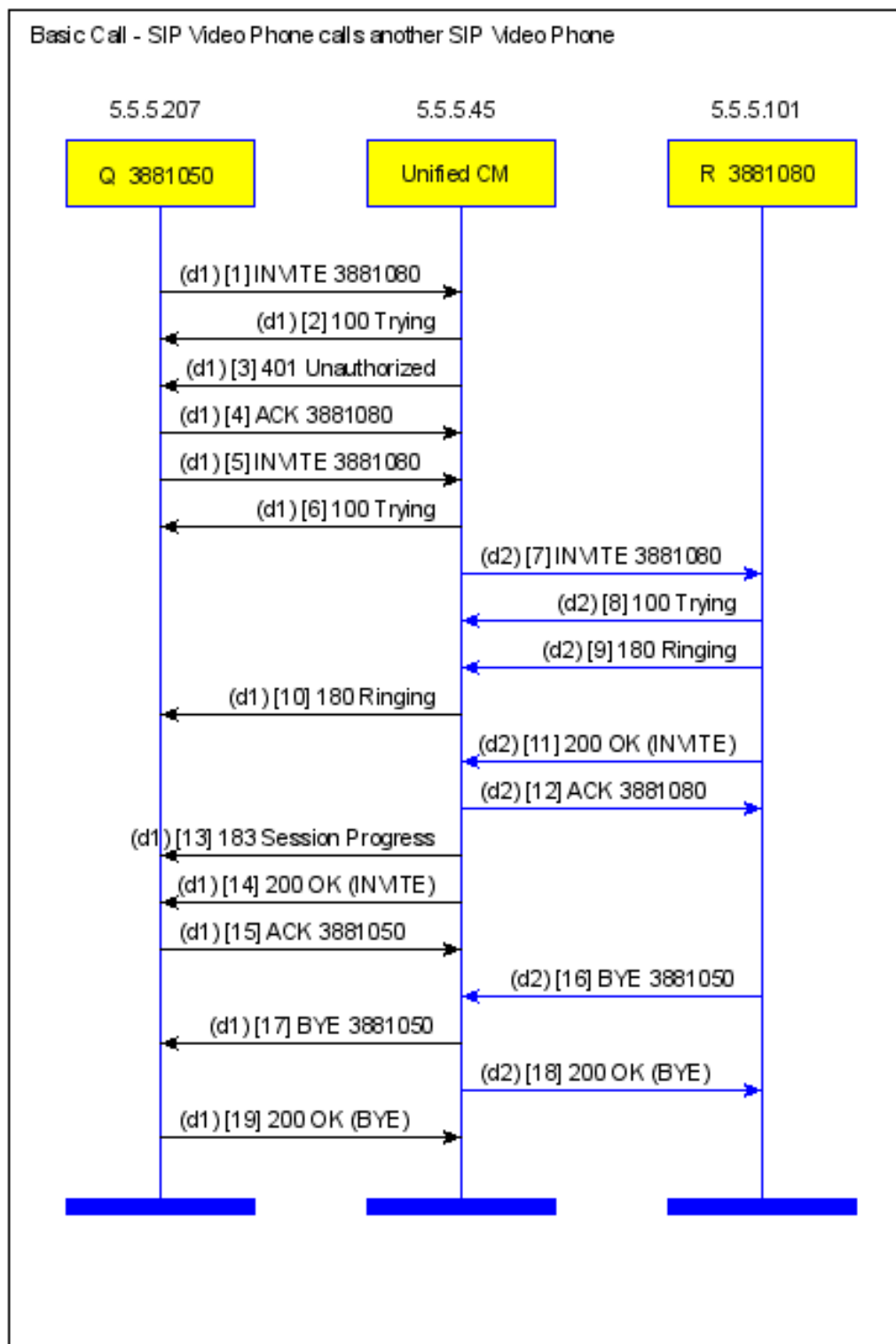
Phone = R, Line = 3881080, IP = 5.5.5.101, Model = SIP Video Phone

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

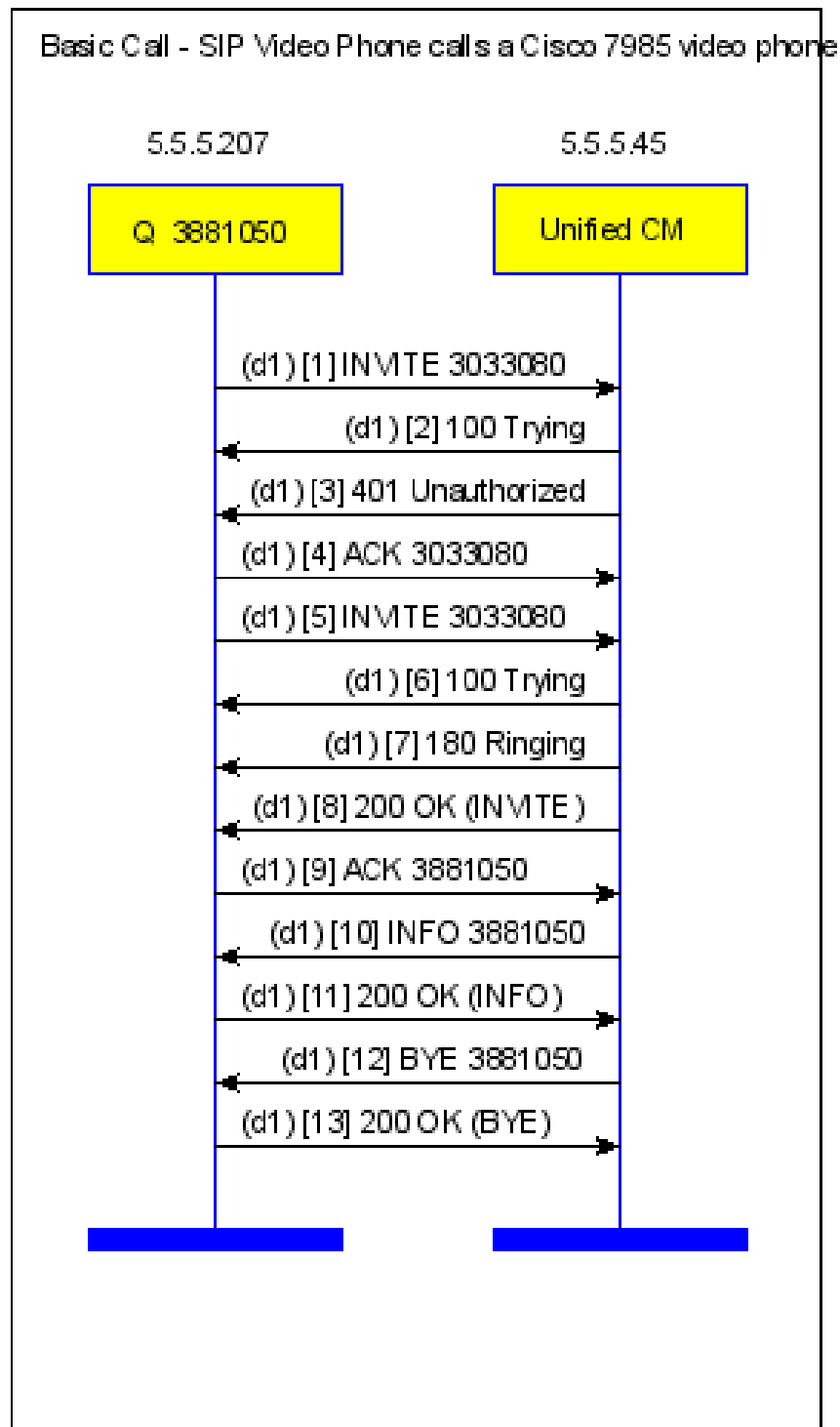
Phone = S, Line = 3033080, IP = 5.5.5.224, Model = Cisco 7985

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

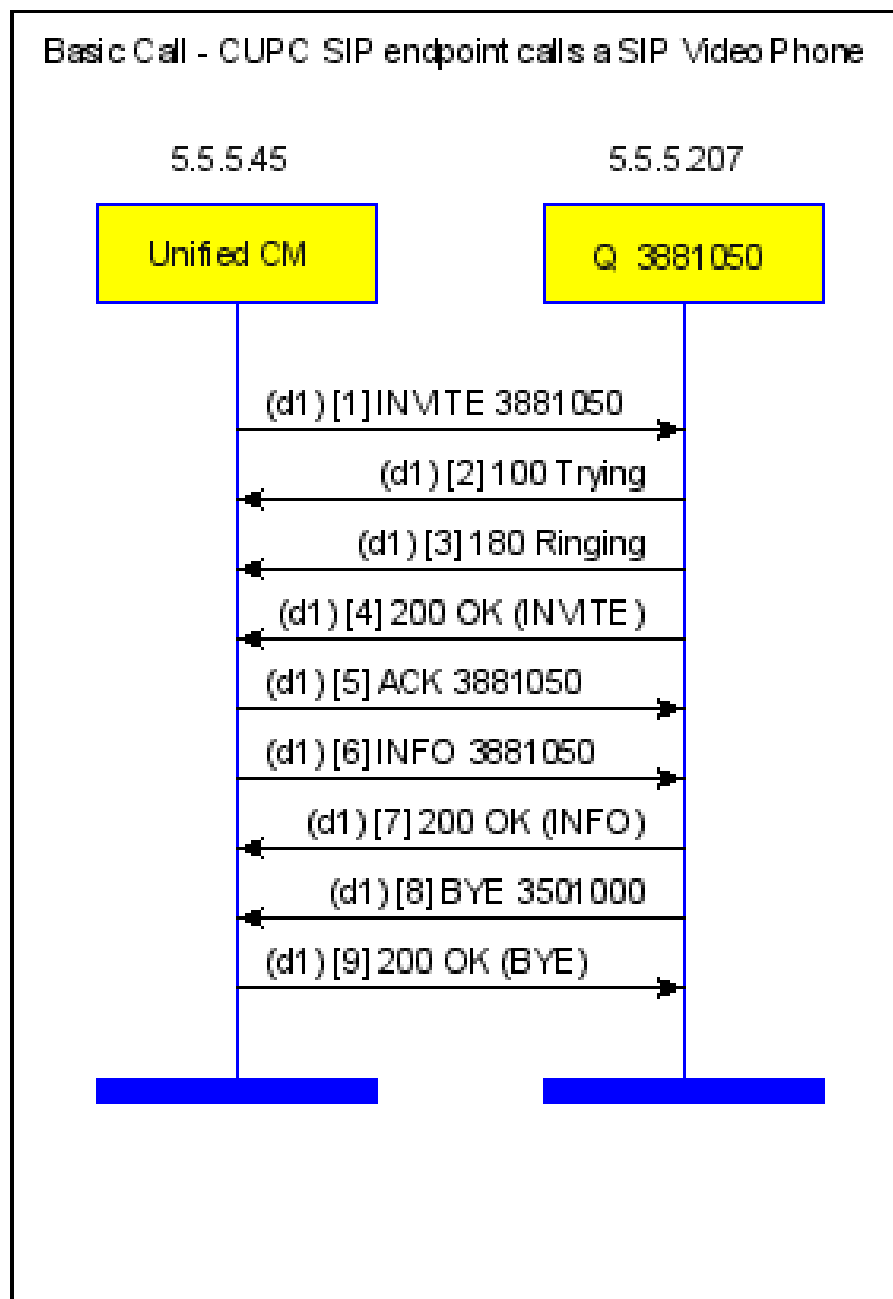
Phone = Q, Line = 3881050, IP = 5.5.5.207, Model = SIP Video Phone

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:

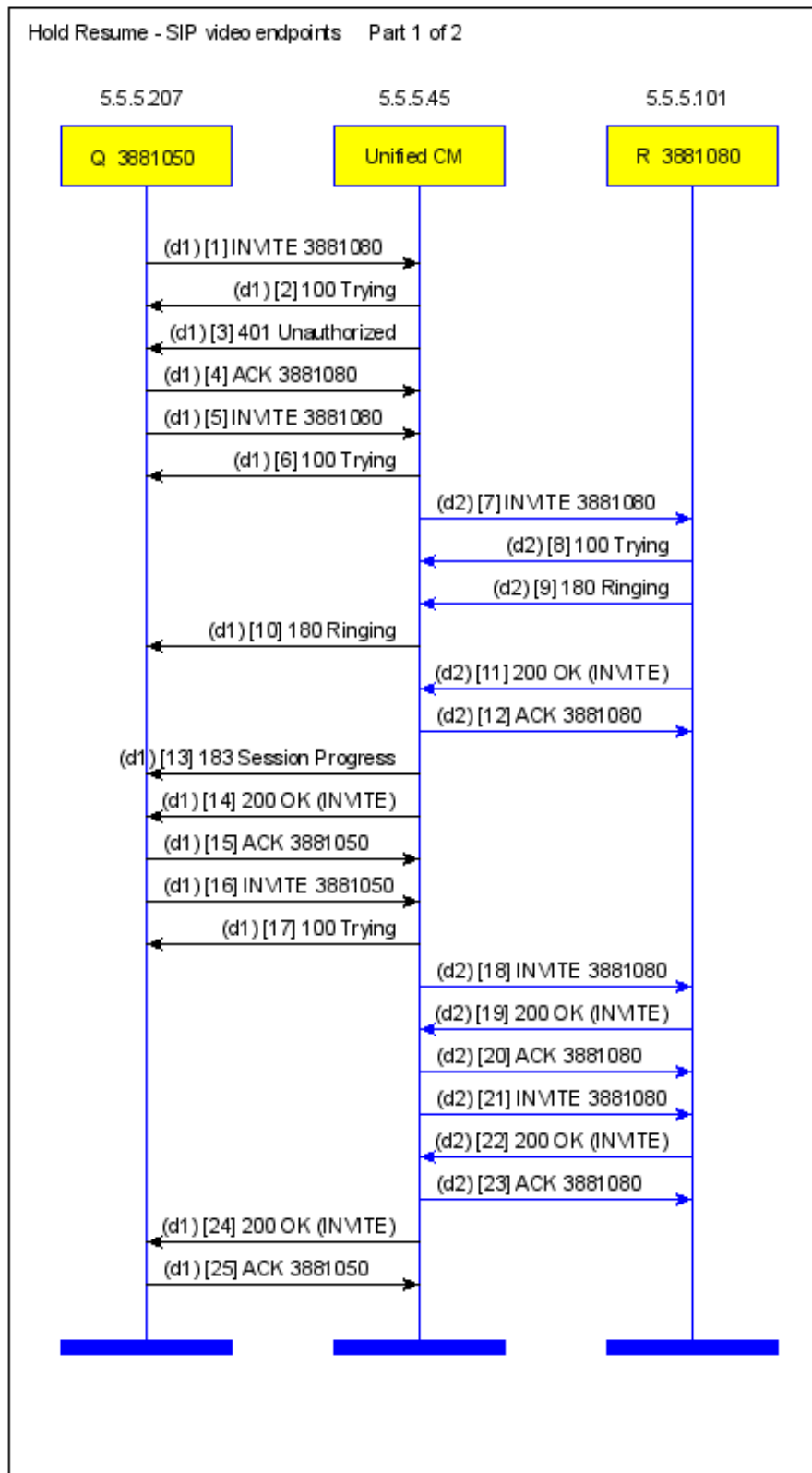
3881050 calls 3881080

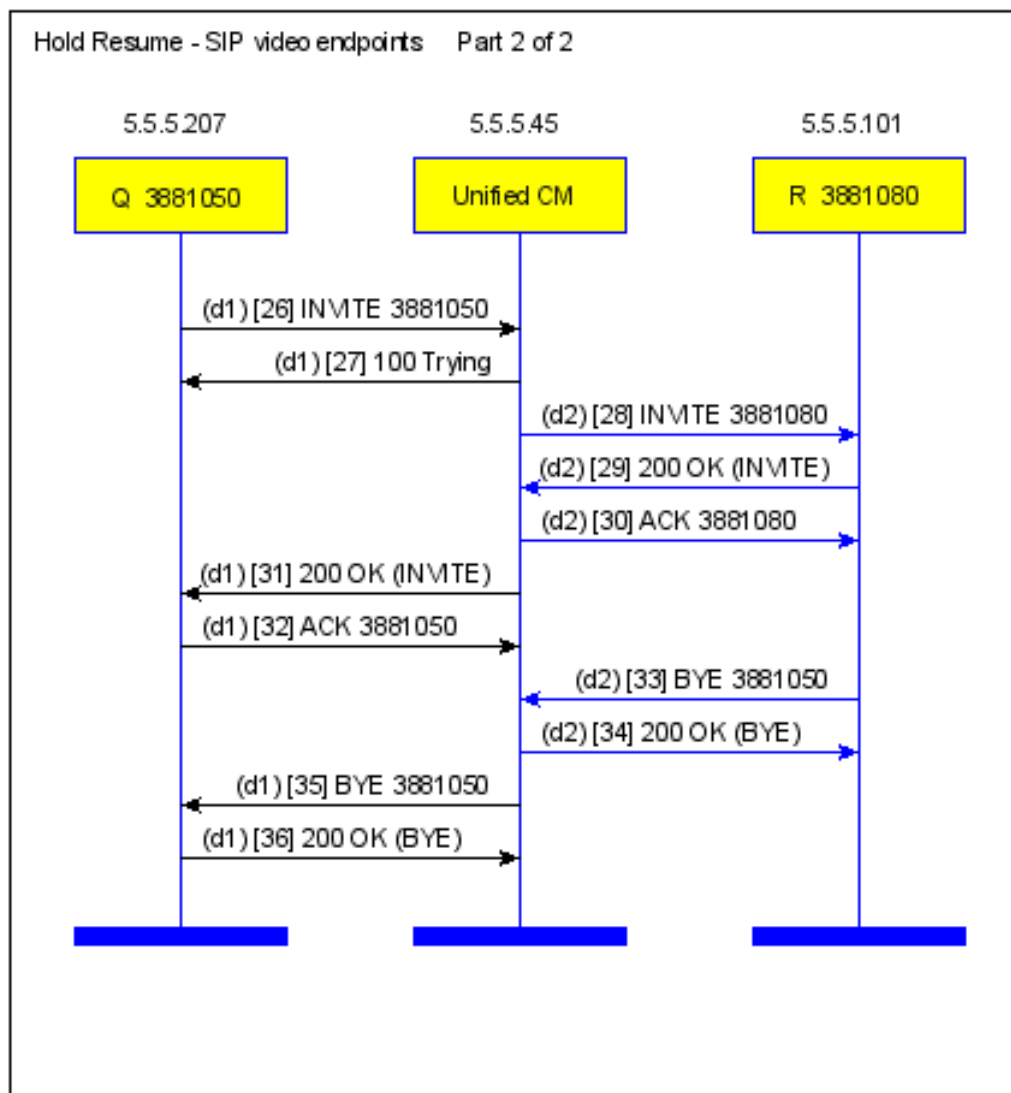
3881080 answers

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
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 17:37:34 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=39306c3031c5dcc6
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=39306c3031c5dcc6
 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=39306c3031c5dcc6
 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/vjRIOweoG2xWJCHrol0Ld0CN3Dy",
 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
 a=ptime: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
 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=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=recvnly
 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=recvnly
 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=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=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=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=39306c3031c5dcc6
 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/vjRI0weoG2xWJCHrolOLD0CN3Dy",

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:

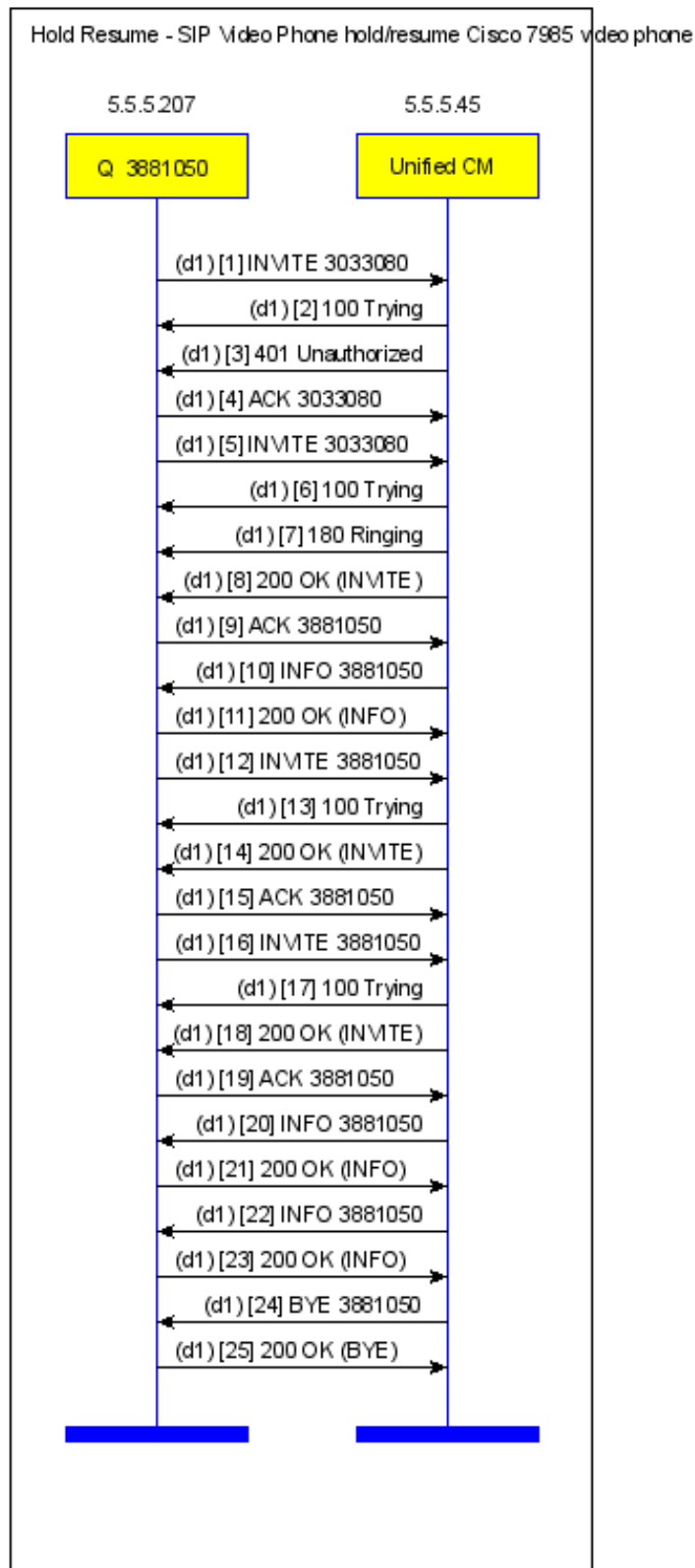
3881050 calls 3033080

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
a=ptime: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
a=ptime: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
 a=ptime: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

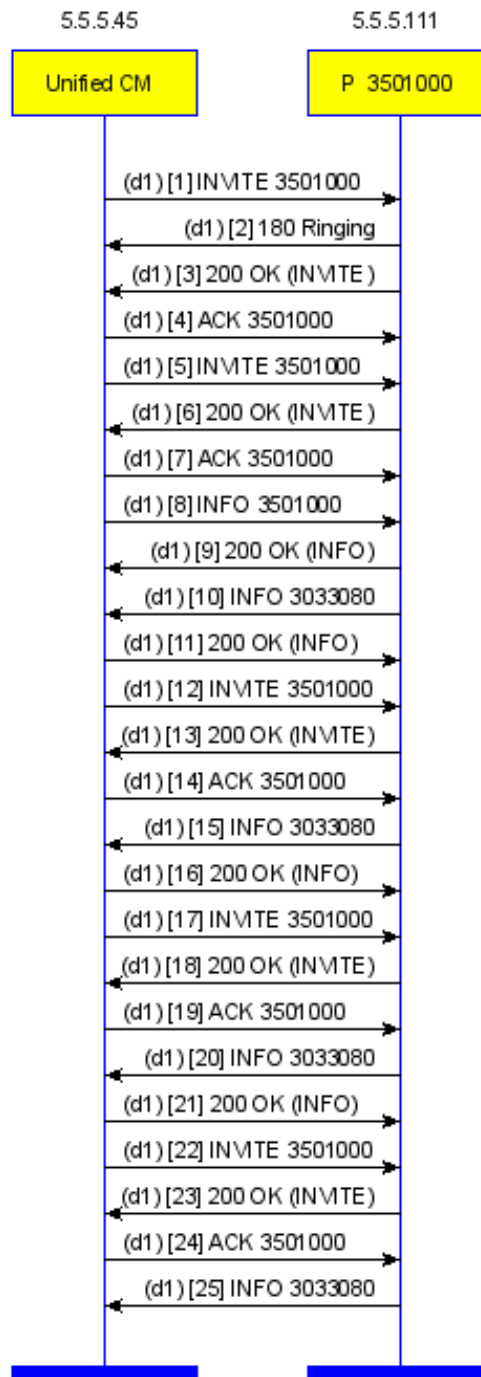
3501000 answers

3033080 presses hold

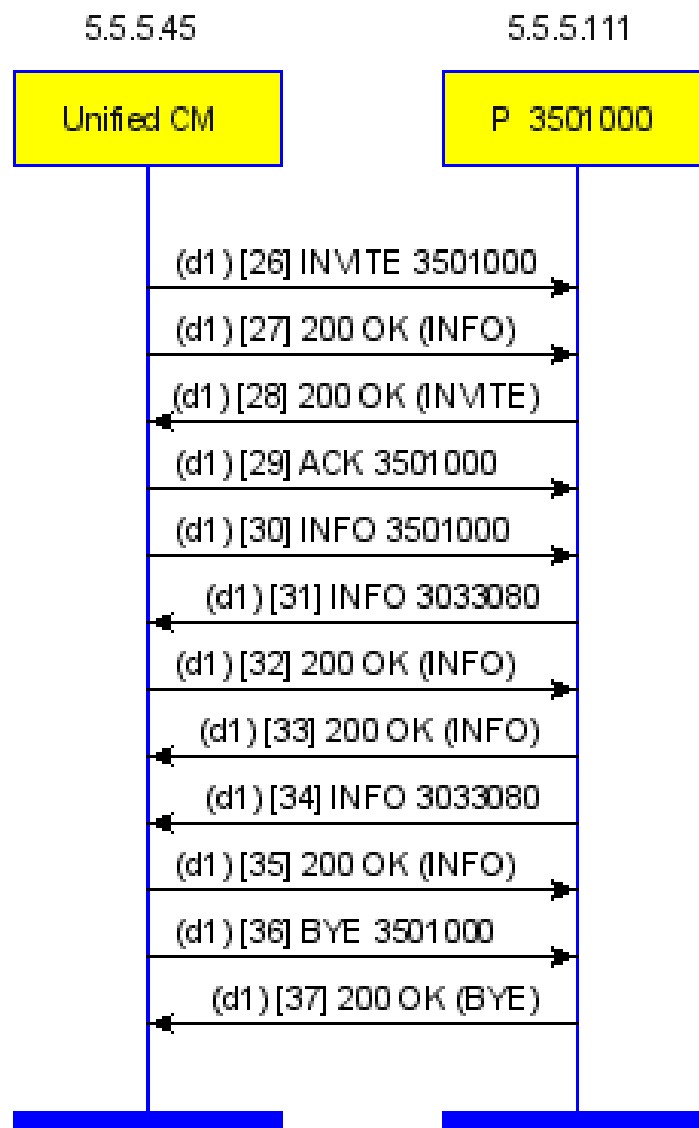
3033080 presses resume

3033080 goes onhook

Hold Resume - 7985 video phone hold/resume of a SIP Video Phone Part 1



Hold Resume - 7985 video phone hold/resume of a SIP Video Phone Part 2



[\[diagram\]](#) 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

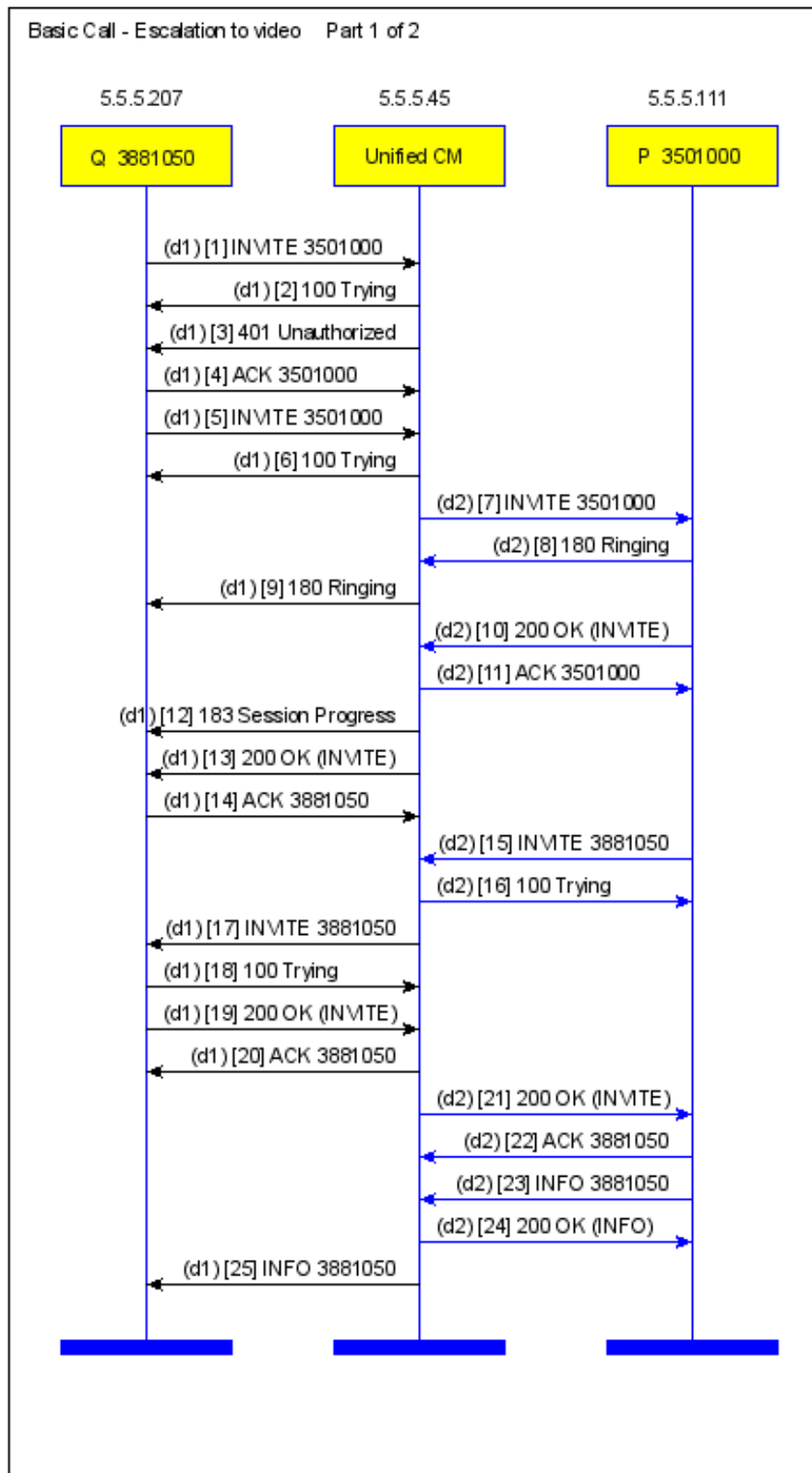
Scenario:

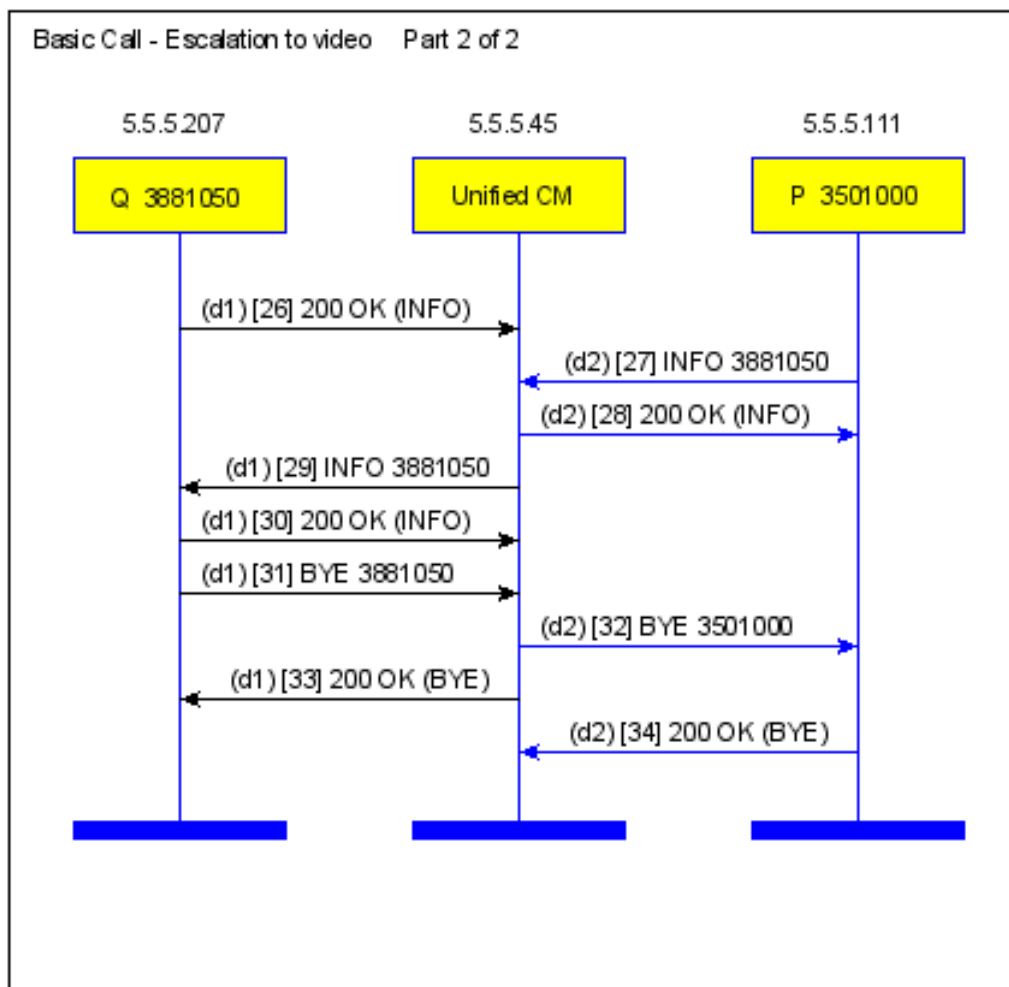
3881050 calls 3501000

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
 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

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=78f01fc6dff75757
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=78f01fc6dff75757
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=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=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=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: 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="8493eff1e66662a587963bd992c1259a"
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@5.5.5.111:50000;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@5.5.5.111:50000;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: 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:

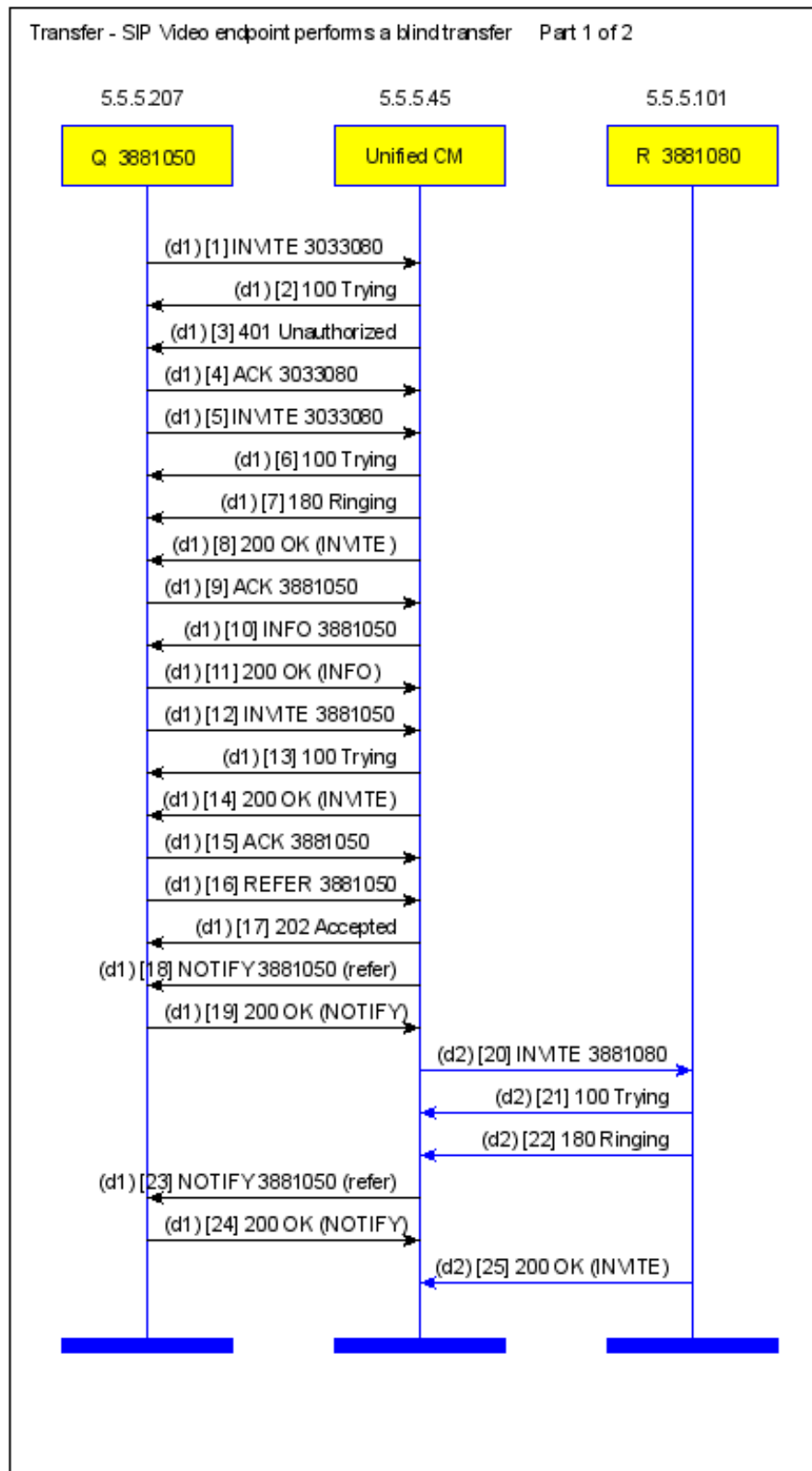
3881050 calls 3033080

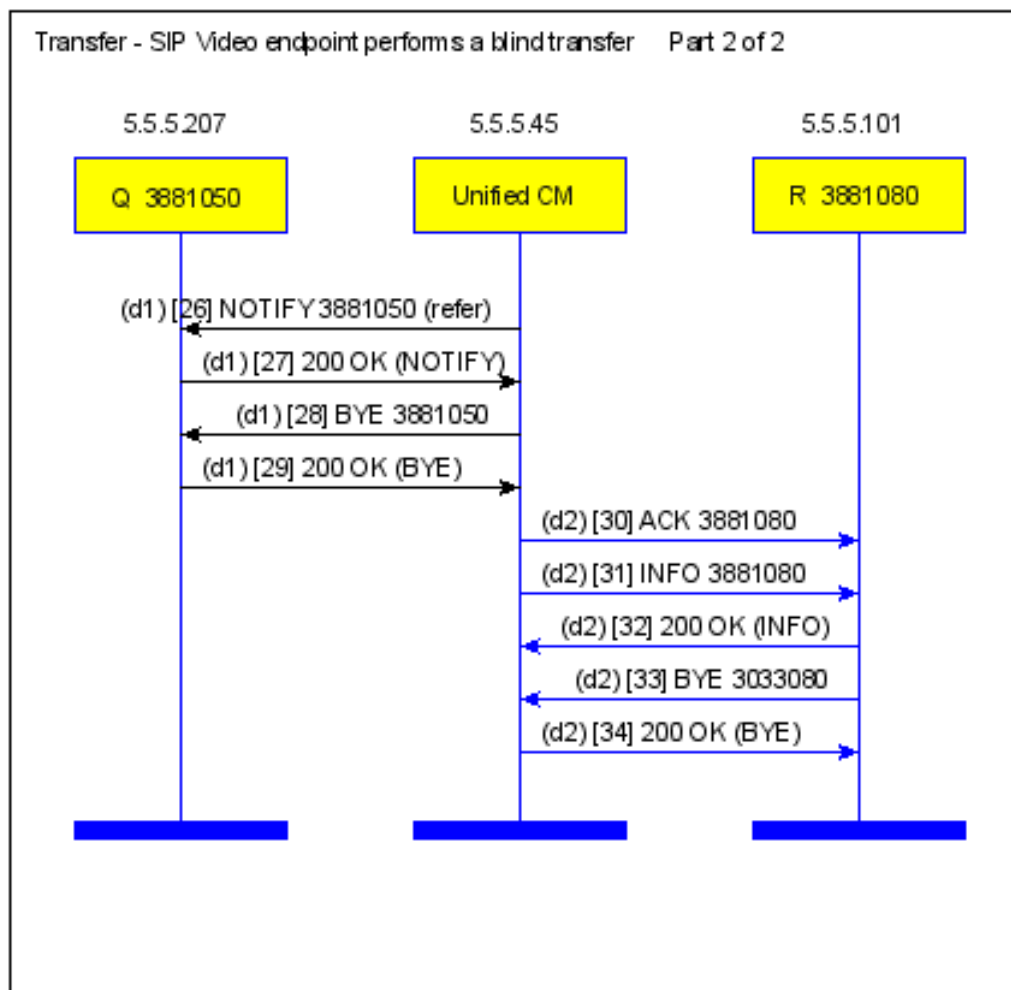
3033080 answers

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
a=ptime: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
a=ptime: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="987a49fbb6919fff86cf8a1cf20b811e5"
 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:

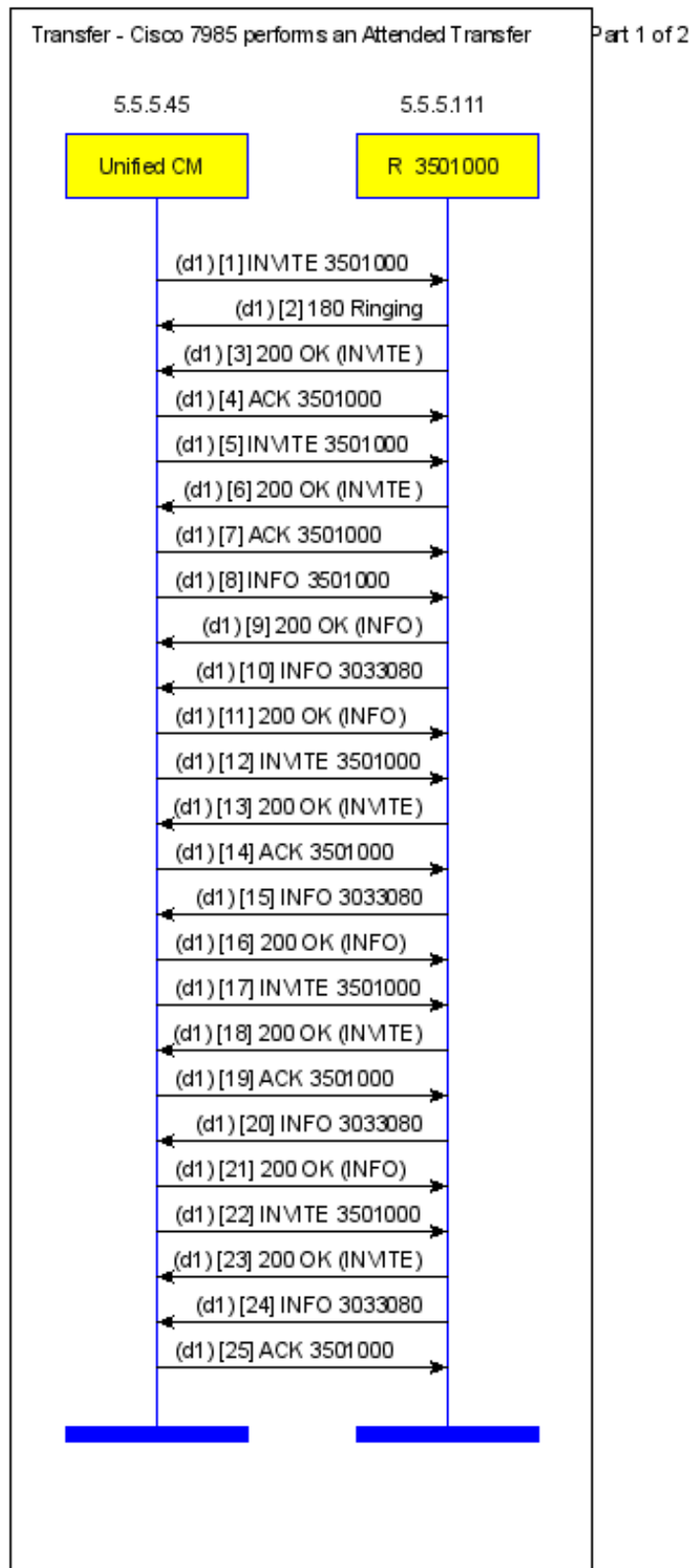
3033080 calls 3501000

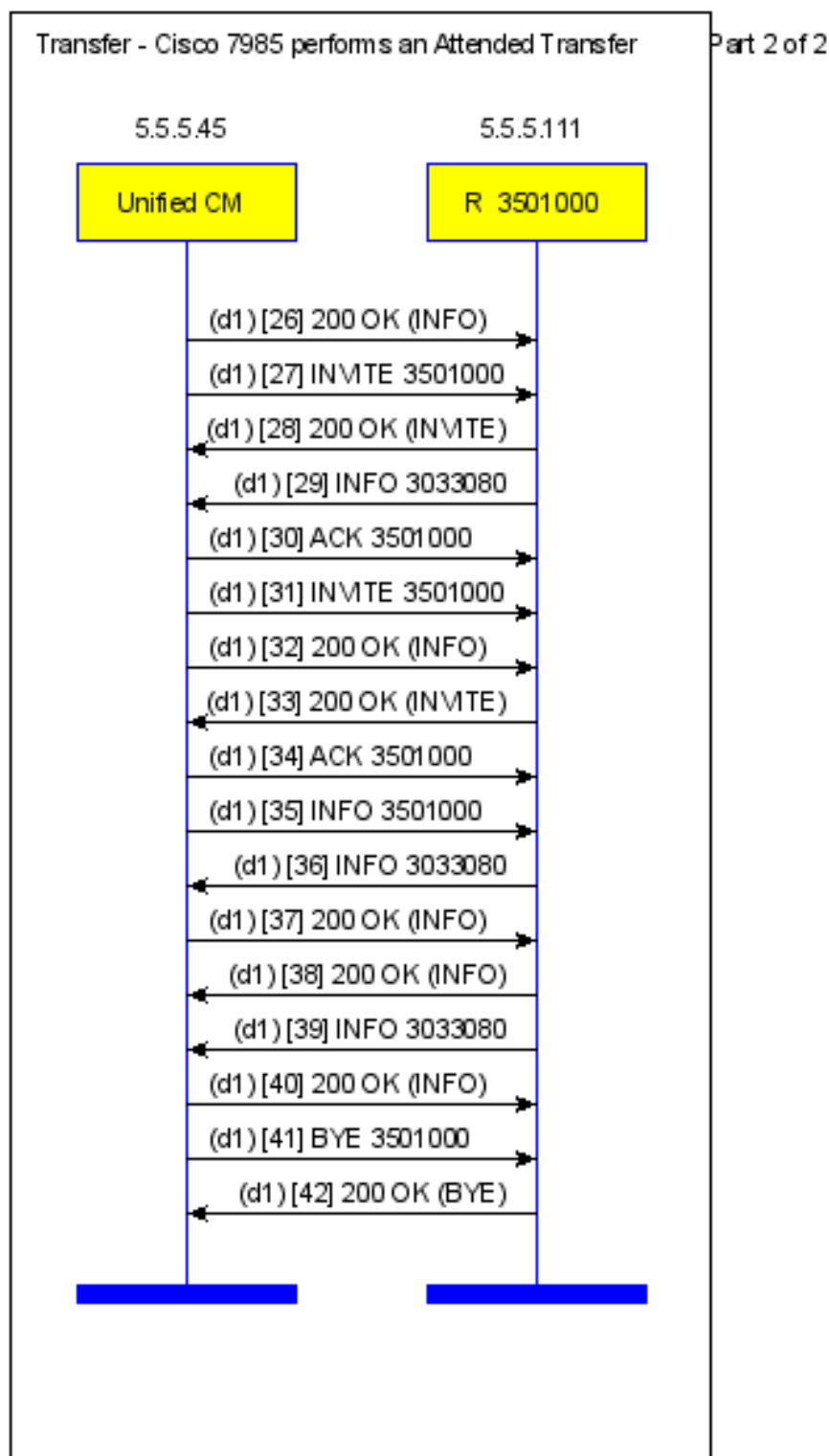
3501000 answers

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
```