

# 长途或移动目的地的呼叫失败

## Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Conventions](#)

[问题](#)

[解决方案](#)

[解决方案1 : Cisco CallManager配置](#)

[解决方案 2 : IOS配置](#)

[Related Information](#)

## [Introduction](#)

本文修正对多数位置的呼叫工作的情况，但是对便携(信元)电话或国际位置的呼叫发生故障。与“恢复的典型这些呼叫断开在计时器逾期”在Cisco IOS Q.931调试。

## [Prerequisites](#)

## [Requirements](#)

There are no specific requirements for this document.

## [Components Used](#)

本文的信息根据Cisco CallManager 3.x和4.x。

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

## [Conventions](#)

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

## [问题](#)

因为他们必须找出用户，便携电话网络典型地花费很多时间连接。国际呼叫典型地也体验呼叫建立的延迟。这造成计时器T310到期。

启动此计时器，当呼叫进行被接受时，并且终止，当戒备，连接时，光盘或者进展被接受。确定是容易的这是否是问题通过查看调试和Cisco CallManager跟踪。为了执行那，请找出呼叫进行并且验证几秒后发送断开n发生故障的每次呼叫的。您能验证n是为T310计时器设置的值。此值是典型地10秒。

这是从debug isdn q931命令的输出示例:在IOS网关。

```
Feb 4 11:10:40.396: ISDN Se3/0:15: TX -> SETUP pd = 8 callref = 0x000E
Feb 4 11:10:40.396: Bearer Capability i = 0x8090A3
Feb 4 11:10:40.396: Channel ID i = 0xA9838F
Feb 4 11:10:40.396: Display i = 'John', 0x20, 'Smith'
Feb 4 11:10:40.396: Calling Party Number i = 0x0080, '123456', Plan:Unknown, Type:Unknown
Feb 4 11:10:40.396: Called Party Number i = 0x80, '654321', Plan:Unknown, Type:Unknown
Feb 4 11:10:40.432: ISDN Se3/0:15: RX <- SETUP_ACK pd = 8 callref = 0x800E
Feb 4 11:10:40.432: Channel ID i = 0xA9838F
Feb 4 11:10:42.508: ISDN Se3/0:15: RX <- CALL_PROC pd = 8 callref = 0x800E
Feb 4 11:10:42.508: Progress Ind i = 0x8288 - In-band info or appropriate now available
Feb 4 11:10:42.508: Progress Ind i = 0x8282 - Destination address is non-ISDN
Feb 4 11:10:50.492: ISDN Se3/0:15: TX -> DISCONNECT pd = 8 callref = 0x000E
Feb 4 11:10:50.492: Cause i = 0x80E6 - Recovery on timer expiry
Feb 4 11:10:50.548: ISDN Se3/0:15: RX <- RELEASE pd = 8 callref = 0x800E
Feb 4 11:10:50.552: ISDN Se3/0:15: TX -> RELEASE_COMP pd = 8 callref = 0x000E
```

## 解决方案

为了解决此情况，请增加计时器T310的值。这在Cisco CallManager或IOS网关可以执行。当呼叫是由Cisco CallManager控制的(特别是，如果使用内部呼叫控制协议(SCCP)网关)，根据[解决方案1](#)，此动作需要被执行：[Cisco CallManager配置](#)。如果Cisco CallManager不是包含的(特别是，如果在抗损远程站点电话(SRST)模式下经营)，根据[解决方案2](#)，此动作需要被执行：[IOS配置](#)。

### 解决方案1 : Cisco CallManager配置

完成下面这些步骤。

1. 从Cisco CallManager管理页，请选择**Service > Service Parameters**。

System Route Plan Service Feature Device User Application Help

Cisco CallManager  
For Cisco IP Telephony Solutions

- Cisco IPMA Configuration Wizard
- Cisco CM Attendant Console
- Media Resource
- Service Parameters

CISCO SYSTEMS



### Cisco CallManager 4.0 Administration

Details

Copyright © 1999 - 2003 Cisco Systems, Inc.  
All rights reserved.

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:  
<http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>.  
If you require further assistance please contact us by sending email to [export@cisco.com](mailto:export@cisco.com).

2. 选择Cisco CallManager从在左边的列表，如果使用Cisco CallManager 3.x或选择Cisco CallManager从Service下拉框，如果使用Cisco CallManager 4.x。Cisco CallManager版本

- Services**
-  Cisco CTIManager
  -  Cisco CallManager
  -  Cisco Database Layer Monitor
  -  Cisco Extension Mobility
  -  Cisco IP Voice Media Streaming App
  -  Cisco MOH Audio Translator
  -  Cisco Messaging Interface
  -  Cisco RIS Data Collector
  -  Cisco TFTP
  -  Cisco Telephony Call Dispatcher

3.x Cisco CallManager版本

4.x

System Route Plan Service Feature Device User Application Help

**Cisco CallManager Administration**  
For Cisco IP Telephony Solutions

**CISCO SYSTEMS**

## Service Parameters Configuration

Select the server and the service you want to configure:

Server\*

Service\*

Note: If the service you want to configure is not listed in the Service drop-down, you must activate it using [Service Activation](#).

\* indicates required item

- Cisco CallManager
- Cisco CTIManager
- Cisco CTL Provider
- Cisco Database Layer Monitor
- Cisco Extended Functions
- Cisco Extension Mobility
- Cisco IP Manager Assistant
- Cisco IP Voice Media Streaming App
- Cisco Messaging Interface
- Cisco MOH Audio Translator

3. 在Service Parameters Configuration页，请寻找T310。

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration  
For Cisco IP Telephony Solutions

CISCO SYSTEMS

## Service Parameters Configuration

Select Another Server/Service [1 servers](#)

Current Server : 172.16.17.195

Current Service: Cisco CallManager

Status: Ready

All parameters apply to the current server except those in the Clusterwide group(s)

Parameter Name	Parameter Value	Suggested Value
Dial Plan Path*	<input type="text" value="C:\Program Files\Cisco\DialPlan\"/>	C:\Program Files\Cisco\DialPlan\

System

4. 设置T310计时器(毫秒)的值为推荐值60000毫秒。

T309 Timer (msec)*	<input type="text" value="90000"/>	90000
<b>T310</b> Timer (msec)*	<input type="text" value="60000"/>	60000
T313 Timer (msec)*	<input type="text" value="4000"/>	4000

5. 在页的顶层移动并且点击更新。

System Route Plan Service Feature Device User Application Help


**Cisco CallManager Administration**  
For Cisco IP Telephony Solutions

CISCO SYSTEMS

## Service Parameters Configuration

[Select Another Server/Service Parameters for all servers](#)

Current Server : 172.16.17.195

Current Service: Cisco CallManager 

Status: Ready

All parameters apply to the current server except those in the Clusterwide group(s)

Route Plan		
Parameter Name	Parameter Value	Suggested Value
Dial Plan Path*	<input type="text" value="C:\Program Files\Cisco\DialPlan\"/>	C:\Program Files\Cisco\DialPlan\

**System**

## 解决方案 2 : IOS配置

IOS配置通过此interface命令被达到：

```
Router(config-if)#isdn t310 <value in milliseconds>
```

使用show isdn timers命令，您能检查设置。

```
Router#show isdn timers
ISDN Serial2/0:15 Timers (dsl 0) Switchtype = primary-net5
ISDN Layer 2 values
K = 7 outstanding I-frames
N200 = 3 max number of retransmits
T200 = 1.000 seconds
T202 = 2.000 seconds
T203 = 10.000 seconds
ISDN Layer 3 values
T303 = 4.000 seconds
T304 = 30.000 seconds
T305 = 30.000 seconds
T306 = 30.000 seconds
T307 = 180.000 seconds
T308 = 4.000 seconds
T309 Disabled
T310 = 60.000 seconds
```



T313 = 4.000 seconds

T316 = 120.000 seconds

**Note:** 在Cisco CallManager版本3.x中，由于运算符实施在某些国家(地区)，可以要求您包括“发送完全指示器”。此参数位于Cisco CallManager参数页。

SdlTraceTypeFlags*	<input type="text" value="0x00004B05"/>	0x8000CB15
SendingCompleteIndicator*	<input type="text" value="True"/>	False

**Note:** 默认情况下，在Cisco CallManager版本4.x，在流出SETUP信息使用一种基于ETSI的协议类型包括发送一台完全指示器的所有出局访问通过PRI建立接口。这有效表明所有这些出局访问使用Enbloc信令，呼叫建立不是叠加发送程序。由于运算符实施在某些国家(地区)，可能可能需要到enable (event)叠加发送。为了执行此，请检查在路由模式配置页的**Allow Overlap Sending**复选框。

## Route Pattern/Hunt Pilot Configuration

[Add a New Route Pattern/Hunt Pilot](#)  
[Back to Find/List Route Patterns and Hunt Pilots](#)

**Route Pattern/Hunt Pilot: New**  
Status: Ready  
Note: Any update to this Route Pattern or Hunt Pilot automatically resets the associated gateway or Route/Hunt List

**Pattern Definition**

Route Pattern/Hunt Pilot*	<input type="text"/>	
Partition	< None >	
Description	<input type="text"/>	
Numbering Plan*	North American Numbering Plan	
Route Filter	< None >	
MLPP Precedence	Default	
Gateway or Route/Hunt List*	— Not Selected —	
Route Option	<input checked="" type="radio"/> Route this pattern <input type="radio"/> Block this pattern <input type="text" value="— Not Selected —"/>	
<input checked="" type="checkbox"/> Provide Outside Dial Tone	<input type="checkbox"/> Allow Overlap Sending	<input type="checkbox"/> Urgent Priority

**Calling Party Transformations**

Use Calling Party's External Phone Number Mask

Calling Party Transform Mask

## Related Information

- [语音技术支持](#)
- [语音和统一通信产品支持](#)
- [Cisco IP 电话故障排除](#)
- [Technical Support - Cisco Systems](#)