

SCCP网关的CUCM自动配置

目录

[简介](#)

[先决条件](#)

[要求](#)

[使用的组件](#)

[兼容性](#)

[配置](#)

[概略的步骤](#)

[详细步骤](#)

[示例](#)

[XML配置文件相关的部分](#)

[故障排除](#)

简介

本文描述如何以Cisco Unified Communications Manager (CUCM)使用在相互作用操作系统的(IOS)网关的思科的小型客户机控制协议(SCCP)自动配置。

贡献相反拉米雷斯， Cisco TAC工程师。

先决条件

要求

在您尝试此配置前，请保证这些需求满足：

- 网关和CUCM服务器之间的全连接
- IOS版本与CUCM服务器版本兼容
- 添加SCCP网关和终端在CUCM服务器

使用的组件

本文档中的信息根据某些软件和硬件版本，参考兼容性矩阵。

警告：本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络实际，请保证您了解所有命令潜在影响。

兼容性

要确定在CUCM和IOS之间的兼容性，参考[思科协作系统IP电话的版本汇总矩阵](#)。

配置

概略的步骤

步骤1. enable (event)

步骤2. configure terminal

步骤3. CCM管理者配置服务器[CUCM IP address]

步骤4. CCM管理者sccp local [Interface]

步骤5. sccp local [Interface]

步骤6. CCM管理者SCCP

详细步骤

命令或操作	目的
步骤1: enable (event) 示例： Router>enable	启动特权EXEC模式。 •输入您的密码，如果提示。
第二步： configure terminal 示例： Router#configure terminal	进入全局配置模式。
第三步： CCM管理者配置服务器[CUCM IP address] 示例： Router(config)#ccm管理器配置服务器192.168.1.154	配置服务器集地址。 •CUCM IP地址—指定可扩展标记语言简单文件传输协议(TFTP)服务器。
第四步： CCM管理者sccp local [Interface] 示例： Router(config)- CCM管理者 sccp local FastEthernet0/0	选择小型客户机控制协议(SCCP)应用程序使用向Cisco CallManager。 •为了使知道的网关哪个接口MAC地址将用于建立XML文件名请求。
第五步： sccp local [Interface] 示例： Router(config)- sccp local FastEthernet0/0	选择小型客户机控制协议(SCCP)应用程序使用向Cisco CallManager。 •将使用到达注册的CUCM的接口。
第六步： CCM管理者SCCP 示例： Router(config)- CCM管理者 SCCP	启用Cisco IOS网关的Cisco CallManager自动配置。 • 请使用此命令触发可扩展标记语言(XML)配置文件的TFTP下载。 CallManager控制的应用程序。

示例

CUCM添加在CUCM配置的域名系统(DNS)服务器到语音网关。

```
ip name-server 192.168.1.156
```

```
ip name-server 192.168.1.1
```

CUCM添加有同一优先级的激活的呼叫管理器服务器配置在Cisco Unified Communications Manager组下， sccp ccm组并且启用SCCP。

```
sccp ccm 192.168.1.154 identifier 2 version 4.1
sccp ccm 192.168.1.167 identifier 1 version 4.1
sccp
sccp ccm group 1
  associate ccm 1 priority 1
  associate ccm 2 priority 2
CUCM创建配置端口的dial-peer。
```

```
dial-peer voice 999000 pots
  service stcapp
  port 0/0
```

```
dial-peer voice 999001 pots
  service stcapp
  port 0/1
CUCM添加此配置到存在voice-ports。
```

```
voice-port 0/0
  timeouts initial 60
  timeouts interdigit 60
  timeouts ringing infinity
```

```
voice-port 0/1
  timeouts initial 60
  timeouts interdigit 60
  timeouts ringing infinity
```

CUCM配置stcapp ccm-group，启用stcapp，配置stcapp功能接入代码和stcapp快速拨号。

```
stcapp ccm-group 1
stcapp
stcapp feature access-code
stcapp feature speed-dial
```

注意：保证那里是有标签1或stcapp ccm-group的没有SCCP ccm组用在路由器1以前配置的标签。

XML配置文件相关的部分

```
<product>VG204</product>  <- Device Type
<callManagerGroup>

<name>Luis-SUB-PUB-DP</name>  <- Call Manager Group Configured on CUCM

<members>
<member  priority="0">  <- First Priority Device
<callManager>
<name>CUCM9-1SUB</name>  <- CUCM Server with First Priority
<ports>
<ethernetPhonePort>2000</ethernetPhonePort>  <- SCCP Port
</ports>

</member>
<member  priority="1">  <- Second Priority Device
<callManager>
<name>CUCM9-1</name>
<description>CUCM9-1</description>  <- CUCM Server with Second Priority
<ports>
<ethernetPhonePort>2000</ethernetPhonePort>  <- SCCP Port
```

```
<product>ANALOG</product> <- Product Type Analog
<product>4FXS-SCCP</product> <- 4 FXS with SCCP
<deviceProtocol>SCCP</deviceProtocol> <- Device Will Run SCCP
```

故障排除

此部分提供步骤排除故障SCCP自动注册问题。

步骤1: show ccm-manager命令设置下载显示自动配置下载状态。

检查使用的MAC地址使用的，接口，TFTP配置尝试(出故障并且成功)，配置错误历史记录等等。

```
Router#show ccm-manager confing-download

SCCP auto-configuration status
=====
Registered with Call Manager: Yes
Local interface: FastEthernet0/0 (001f.cac3.de10)
Current version-id: 1397830563-94fb712b-0c8f-48fa-ac91-a5edfcc9611b
Current config applied at: 04:16:01 UTC Jun 29 2002
Gateway downloads succeeded: 2
Gateway download attempts: 2
Last gateway download attempt: 04:20:43 UTC Jun 29 2002
Last successful gateway download: 04:20:43 UTC Jun 29 2002
Current TFTP server: 192.168.1.154
Gateway resets: 0
Gateway restarts: 0
Managed endpoints: 2
Endpoint downloads succeeded: 2
Endpoint download attempts: 2
Last endpoint download attempt: 04:16:01 UTC Jun 29 2002
Last successful endpoint download: 04:16:01 UTC Jun 29 2002
Endpoint resets: 0
Endpoint restarts: 0
```

Configuration Error History:

步骤2.使debug ccm-manager设置下载全部为了发现配置和下载过程在语音网关。

TFTP GW发送配置请求的地址。

```
Router#show ccm-manager confing-download

SCCP auto-configuration status
=====
Registered with Call Manager: Yes
Local interface: FastEthernet0/0 (001f.cac3.de10)
Current version-id: 1397830563-94fb712b-0c8f-48fa-ac91-a5edfcc9611b
Current config applied at: 04:16:01 UTC Jun 29 2002
Gateway downloads succeeded: 2
Gateway download attempts: 2
Last gateway download attempt: 04:20:43 UTC Jun 29 2002
Last successful gateway download: 04:20:43 UTC Jun 29 2002
Current TFTP server: 192.168.1.154
Gateway resets: 0
Gateway restarts: 0
Managed endpoints: 2
Endpoint downloads succeeded: 2
Endpoint download attempts: 2
Last endpoint download attempt: 04:16:01 UTC Jun 29 2002
Last successful endpoint download: 04:16:01 UTC Jun 29 2002
```

Endpoint resets: 0
Endpoint restarts: 0

Configuration Error History:
CUCM配置的DNS服务器。

Router#show ccm-manager confing-download

```
SCCP auto-configuration status
=====
Registered with Call Manager: Yes
Local interface: FastEthernet0/0 (001f.cac3.de10)
Current version-id: 1397830563-94fb712b-0c8f-48fa-ac91-a5edfcc9611b
Current config applied at: 04:16:01 UTC Jun 29 2002
Gateway downloads succeeded: 2
Gateway download attempts: 2
Last gateway download attempt: 04:20:43 UTC Jun 29 2002
Last successful gateway download: 04:20:43 UTC Jun 29 2002
Current TFTP server: 192.168.1.154
Gateway resets: 0
Gateway restarts: 0
Managed endpoints: 2
Endpoint downloads succeeded: 2
Endpoint download attempts: 2
Last endpoint download attempt: 04:16:01 UTC Jun 29 2002
Last successful endpoint download: 04:16:01 UTC Jun 29 2002
Endpoint resets: 0
Endpoint restarts: 0
```

Configuration Error History:
file请求的XML。

Router#show ccm-manager confing-download

```
SCCP auto-configuration status
=====
Registered with Call Manager: Yes
Local interface: FastEthernet0/0 (001f.cac3.de10)
Current version-id: 1397830563-94fb712b-0c8f-48fa-ac91-a5edfcc9611b
Current config applied at: 04:16:01 UTC Jun 29 2002
Gateway downloads succeeded: 2
Gateway download attempts: 2
Last gateway download attempt: 04:20:43 UTC Jun 29 2002
Last successful gateway download: 04:20:43 UTC Jun 29 2002
Current TFTP server: 192.168.1.154
Gateway resets: 0
Gateway restarts: 0
Managed endpoints: 2
Endpoint downloads succeeded: 2
Endpoint download attempts: 2
Last endpoint download attempt: 04:16:01 UTC Jun 29 2002
Last successful endpoint download: 04:16:01 UTC Jun 29 2002
Endpoint resets: 0
Endpoint restarts: 0
```

Configuration Error History:
XML下载尝试。

Router#show ccm-manager confing-download

```
SCCP auto-configuration status
=====
```

Registered with Call Manager: Yes
Local interface: FastEthernet0/0 (001f.cac3.de10)
Current version-id: 1397830563-94fb712b-0c8f-48fa-ac91-a5edfcc9611b
Current config applied at: 04:16:01 UTC Jun 29 2002
Gateway downloads succeeded: 2
Gateway download attempts: 2
Last gateway download attempt: 04:20:43 UTC Jun 29 2002
Last successful gateway download: 04:20:43 UTC Jun 29 2002
Current TFTP server: 192.168.1.154
Gateway resets: 0
Gateway restarts: 0
Managed endpoints: 2
Endpoint downloads succeeded: 2
Endpoint download attempts: 2
Last endpoint download attempt: 04:16:01 UTC Jun 29 2002
Last successful endpoint download: 04:16:01 UTC Jun 29 2002
Endpoint resets: 0
Endpoint restarts: 0

Configuration Error History:

dial-peer的配置。

Router#show ccm-manager confing-download

SCCP auto-configuration status
=====

Registered with Call Manager: Yes
Local interface: FastEthernet0/0 (001f.cac3.de10)
Current version-id: 1397830563-94fb712b-0c8f-48fa-ac91-a5edfcc9611b
Current config applied at: 04:16:01 UTC Jun 29 2002
Gateway downloads succeeded: 2
Gateway download attempts: 2
Last gateway download attempt: 04:20:43 UTC Jun 29 2002
Last successful gateway download: 04:20:43 UTC Jun 29 2002
Current TFTP server: 192.168.1.154
Gateway resets: 0
Gateway restarts: 0
Managed endpoints: 2
Endpoint downloads succeeded: 2
Endpoint download attempts: 2
Last endpoint download attempt: 04:16:01 UTC Jun 29 2002
Last successful endpoint download: 04:16:01 UTC Jun 29 2002
Endpoint resets: 0
Endpoint restarts: 0

Configuration Error History:

CUCM服务器被添加，优先级配置，并且SCCP启用。

Router#show ccm-manager confing-download

SCCP auto-configuration status
=====

Registered with Call Manager: Yes
Local interface: FastEthernet0/0 (001f.cac3.de10)
Current version-id: 1397830563-94fb712b-0c8f-48fa-ac91-a5edfcc9611b
Current config applied at: 04:16:01 UTC Jun 29 2002
Gateway downloads succeeded: 2
Gateway download attempts: 2
Last gateway download attempt: 04:20:43 UTC Jun 29 2002
Last successful gateway download: 04:20:43 UTC Jun 29 2002
Current TFTP server: 192.168.1.154
Gateway resets: 0
Gateway restarts: 0

Managed endpoints: 2
Endpoint downloads succeeded: 2
Endpoint download attempts: 2
Last endpoint download attempt: 04:16:01 UTC Jun 29 2002
Last successful endpoint download: 04:16:01 UTC Jun 29 2002
Endpoint resets: 0
Endpoint restarts: 0

Configuration Error History:
CUCM enable (event) stcapp.

Router#**show ccm-manager confing-download**

SCCP auto-configuration status
=====

Registered with Call Manager: Yes
Local interface: FastEthernet0/0 (001f.cac3.de10)
Current version-id: 1397830563-94fb712b-0c8f-48fa-ac91-a5edfcc9611b
Current config applied at: 04:16:01 UTC Jun 29 2002
Gateway downloads succeeded: 2
Gateway download attempts: 2
Last gateway download attempt: 04:20:43 UTC Jun 29 2002
Last successful gateway download: 04:20:43 UTC Jun 29 2002
Current TFTP server: 192.168.1.154
Gateway resets: 0
Gateway restarts: 0
Managed endpoints: 2
Endpoint downloads succeeded: 2
Endpoint download attempts: 2
Last endpoint download attempt: 04:16:01 UTC Jun 29 2002
Last successful endpoint download: 04:16:01 UTC Jun 29 2002
Endpoint resets: 0
Endpoint restarts: 0

Configuration Error History: