配置中介模式以将CUCM与智能帐户同步

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简介

本文档介绍中介的模式配置,以使Cisco Unified Communications Manager (CUCM)与智能帐户同步。

先决条件

要求

Cisco 建议您了解以下主题:

- ・ Cisco Unified Communications Manager (CUCM) 12.0 版
- 思科智能软件管理器(CSSM)卫星

使用的组件

本文档中的信息基于以下软件和硬件版本:

- Cisco Call Manager版本12.0
- 智能软件管理器卫星

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。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

背景信息

思科智能软件许可简化整个企业的许可体验,使思科软件的购买、部署、跟踪和续订更加容易。它 通过单个简单的用户界面提供对许可证所有权和使用量的可视性。



- 您在思科商务工作空间下订单并将订单与智能帐户关联。此信息填充在Cisco.com上的 Software Manager中。现在,您可以完全查看您的订单和采购。
- 2. 启用智能许可的产品(通过CLI或GUI),注册到CSSM并将许可证消耗报告给CSSM。

有两种型号可用于报告使用情况:

- 直接模式-客户许可信息对安全性不是主要问题。可以使用HTTPS代理或传输网关允许 设备通过专用网络与通信。它成为CSSM的集中式接入点。所有这些都是HTTPS,因此 它是安全的。
- 中介部署模式-适用于有安全问题的客户。您不希望您的设备通过您的专用网络直接与 Cisco.com通信。您可以将CSSM卫星安装在位于您本地并充当CSSM的VM上。它可以 与Cisco.com上的CSSM每月、每周同步或完全断开连接。如果没有来自网络的互联网连 接,则可以上传和下载文件。它需要具备的只是同步才能知道授权,因为建议是在30天 内进行同步。

在哪里创建智能帐户

- 要创建客户智能帐户,请使用您的CCO ID登录CSC,并发起客户智能帐户申请。
- 要创建代理商暂持智能帐户,请使用您的CCO ID登录CSC并发起代理商暂持帐户申请。

• 在CCW中订购时,您还可以发起对任一种智能帐户的申请。但是,建议的最佳实践是主动设置智能帐户。

💊 注意:没有上限;您可以根据公司需要创建任意数量的虚拟帐户。

思科智能许可证管理器服务

思科智能许可证管理器服务是一种仅在CUCM发布服务器上运行的网络服务。由于这是网络服务 ,因此它始终运行,无法从UI或CLI启动或停止。由于用户上未运行任何服务,因此不能从子用户执 行任何智能许可操作。CLI命令也不提供sub、

UCM中的智能许可状态

智能许可有两个主要状态:

注册状态:有3种注册状态类型:

- 1. 未识别/未注册
- 2. 已注册
- 3. Unregistered-registered已过期

授权状态:

- 未使用许可证
- 评估模式
- 评估已过期
- 已授权
- 不合规
- 授权已过期

Registration Status	Authorization Status	Evaluation period(90 days)	Overage period(90 days)	Enforcement? (Do not allow provisioning of users/devices)	Comments	Message on UI
Unregistered OR Registration Expired	Evaluation Mode	Start with 90 and will decrement if UCM is consuming licenses	.NA	No	Evaluation period is used when you consume licenses	Smart Software Licensing: The system is currently unregistered and running in Evaluation mode with 89 days remaining. Register with Smart Software Manager or Smart Software Manager satellite to avoid losing the ability to provision users and devices.
Unregistered OR Registration Expired	Evaluation Expired	0 days	NA	Yes		Smart Software Licensing: The system is currently unregistered and the evaluation period has expired. Register with Smart Software Manager or Smart Software Manager satellite to avoid losing the ability to provision users and devices.
Registered OR Unregistered OR Registration Expired	No Licenses in Use	NA	NA	No		
Registered	Authorized	NA	NA	No		
Registered	000	NA	Overage period remaining	No till overage period is applicable Yes after overage days(90 days) are over		Smart Software Licensing: The system is operating with an insufficient number of licenses. Configure additional licenses in Smart Software Manager within 90 days to avoid losing the ability to provision users and devices.
Registered	Authorization Expired	NA	Same as above	Same as above		Smart Software Licensing: The system has not connected to Smart Software Manager or Smart Software Manager satellite for 90 days and the license authorization has expired. Please check the network connection and renew the license authorization within 90 days to avoid losing the ability to provision users and devices.

除了之前的智能许可状态,UCM还提供90天的超额期限(这是使用传统许可的12.0之前版本中已存 在的概念。UCM还可以通过智能许可继续为客户提供超额期)。

配置(中介部署)

先决条件

必须启用以下端口才能与CSSM通信:

- 用户界面:HTTPS(端口8443)
- 产品注册:HTTPS(端口443)、HTTP(端口80)
- 与CSSM的通信:HTTPS(tools.cisco.com、api.cisco.com、cloudsso.cisco.com)、端口443

在中介部署模式下有2个部署选项,

使用代理服务器连接(Connected using Proxy Server):在这里,您可以使用代理服务器促进 CUCM和智能帐户之间的连接。

已断开:当没有从CUCM/卫星到Cisco.com的直接连接时使用。必须使用手动上传和下载文件完成 智能帐户同步。

配置(卫星)

1. 登录到卫星。配置为新卫星。检验网络设置。配置有效的NTP服务器。



注意:首次登录时,卫星登录的默认凭证是Admin/Admin!23。

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۱.	选择Manual	Setup并	下载注册文件。)

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O Network Setup - the setup utility will connect to Clock to complete the regulation.	
😗 When you click the Net ballon you will be redirected to a login page to entiry our Cloco com user name and password.	
Manual Sets - the setue utility will parentile a file that you will need to splead to Smart Software Namager to complete the registrat	ton.

2. 在智能软件管理器中登录智能帐户

 9. 导航到智能软件管理器部分下的卫星,然后点击新建卫星......按钮添加新卫星。将新创建的虚 拟帐户关联到卫星。完成此操作后,生成授权文件。



- 要完成注册过程,请导航到卫星登录并上传授权文件。卫星重启。现在,卫星已同步到虚拟帐户。
- 5. 登录到卫星并生成令牌。
- 6. 导航到CUCM管理页面>系统>许可>许可证管理>查看/编辑许可Smart Call Home设置,然后 将SSM卫星URL设置为<u>设备请求处理程序</u>(所配置的卫星的IP地址为10.106.81.131),并保 存,如图所示。

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(i) Status: Ready			
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URL : https://tools.cisco.com/its/service/oddce/services/D	DCES	ervice	
Transport Gateway - proxy data via Transport Gateway or Smart Software M	anage	r satellite	
URL : .81.131:443/Transportgateway/services/DeviceRequ	JestHa	ndler'	
O HTTP/HTTPS Proxy - send data via an intermediate HTTP or HTTPS Proxy.			
IP Address/Host Name :			
Port : 443			
	S	ave C	lose

7. 单击Register并粘贴步骤6中生成的令牌。

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配置(代理服务器)

- 您也可以使用代理服务器,而不是使用卫星服务器。如果CUCM已通过直接方法或卫星注册 ,请首先注销注册,然后导航到系统>许可>许可证管理。您可以在此处查看"操作"选项卡,选 择"取消注册"。
- 如果CUCM未注册,请直接选择View/Edit作为授权Smart Callhome设置。此处添加代理服务 器详细信息,并确保代理服务器连接到tools.cisco.com,以便可以通过代理服务器将CUCM同 步到虚拟帐户。

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O Direct - product communicates directly with Cisco licensing servers. URL : https://tools.cisco.com/its/service/oddce/services/D	DCES	ervice	
O Transport Gateway - proxy data via Transport Gateway or Smart Software M	anage	r satellite.	
HTTP/HTTPS Proxy - send data via an intermediate HTTP or HTTPS Proxy.			
IP Address/Host Name :			
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3. 从虚拟帐户生成令牌请求。

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4. 导航到CUCM。此处,单击register并粘贴步骤3中复制的令牌。

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License Management	Smart Software Licensing Product Registration	
- Status		
You are currently Unregistered. To register your system with Cisco Smart Software licensing:	To register the product for Smart Software Licensing:	
- Ensure your system has access to the internet or a Smart Software Manager satellite installed on your network	Paste the Product Instance Registration Token you generated from Smart Software Manager	
- Login to your smart account in <u>Smart Software Manager</u> or your Smart Software Manager satellite Navigate to the virtual account containing the licenses to be used by this Product Instance.	or your Smart Software Manager satellite	
- Generate a Product Instance Registration Token(to identify your Smart Account) and copy or save it.		
 Return to this page, dick the Register button, and use the copied or saved loken to register the product. 	Product Instance Registration Token:	
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i Below is a summary of current license usage on the system. Current usage details for each type are availab	Reregister this product instance if it is already registered	ess and may take several minutes to complete, depending on
View All License Type Descriptions And Device Classifications	Register Close	
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r License Requirements by Type		

System Call Routing Media Resources Advanced Features Device	Application User Management Bulk Administration	Help 👻		
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显示许可证摘要。

已启用智能许可。

Registration: Status: REGISTERED Smart Account: BU Production Test Virtual Account: TAC-CollabTesting Last Renewal Attempt: None Next Renewal Attempt: Jul 25 15:11:23 2018 IST License Authorization: Status: AUTHORIZED Last Communication Attempt: SUCCEEDED Next Communication Attempt: Feb 25 15:12:59 2018 IST License Usage: License Entitlement Tag regid.2017-02.com.cisco.UCM_CUWL,12.0_cc59375a-1cd8-4b36-8366-6f4d2abba96 regid.2016-07.com.cisco.UCM_EnhancedPlus,12.0_d8372792-588c-4caa-b279-858 66d0d1cf-4863-4761-91d0-d01d3eb1949aregid.2016-07.com.cisco.UCM_Enhanced,12.0_66d0d1cf-4863-4761-91d0 ef827a2f-f4ae-4ebb-887f-052737063d3aregid.2016-07.com.cisco.UCM_Basic,12.0_ef827a2f-f4ae-4ebb-887f-05 regid.2016-07.com.cisco.UCM_Essential,12.0_25f9c396-c67c-4519-aa98-d4b3ad

regid.2016-07.com.cisco.UCM_TelePresenceRoom,12.0_d9a71418-29e9-4c9a-9d3a

显示许可证UDI。

UDI: PID:UCM, SN: 37624, UUID: 6fe83addc80240bc92dc071ac7a37624

显示全部许可证。

Smart Licensing Status _____ Smart Licensing is ENABLED Registration: Status: REGISTERED Smart Account: BU Production Test Virtual Account: TAC-CollabTesting Export-Controlled Functionality: Allowed Initial Registration: SUCCEEDED on Jan 26 15:11:23 2018 IST Last Renewal Attempt: SUCCEEDED on Jan 26 15:11:23 2018 IST Next Renewal Attempt: Jul 25 15:11:23 2018 IST Registration Expires: Jan 26 15:06:21 2019 IST License Authorization: Status: AUTHORIZED on Jan 26 15:12:59 2018 IST Last Communication Attempt: SUCCEEDED on Jan 26 15:12:59 2018 IST Next Communication Attempt: Feb 25 15:12:59 2018 IST Communication Deadline: Apr 26 15:06:59 2018 IST **Evaluation Period:** Evaluation Mode: Not In Use EVALUATION PERIOD EXPIRED on Nov 9 23:46:35 2017 IST License Usage License Authorization Status: AUTHORIZED as of Jan 26 15:12:59 2018 IST (regid.2017-02.com.cisco.UCM_CUWL,12.0_cc59375a-1cd8-4b36-8366-6f4d2abba965) Description: null Count: 0 Version: 12.0 Status: Init (regid.2016-07.com.cisco.UCM_EnhancedPlus,12.0_d8372792-588c-4caa-b279-8587e5ce2f82) Description: null Count: 0 Version: 12.0 Status: Init UC Manager Enhanced License (12.x) (regid.2016-07.com.cisco.UCM_Enhanced,12.0_66d0d1cf-4863-4761-91d0-d Description: UC Manager Enhanced License Count: 5 Version: 12.0 Status: InCompliance UC Manager Basic License (12.x) (regid.2016-07.com.cisco.UCM_Basic,12.0_ef827a2f-f4ae-4ebb-887f-052737 Description: UC Manager Basic License Count: 2 Version: 12.0 Status: InCompliance (regid.2016-07.com.cisco.UCM_Essentia],12.0_25f9c396-c67c-4519-aa98-d4b3ad18f805) Description: null Count: 0 Version: 12.0 Status: Init (regid.2016-07.com.cisco.UCM_TelePresenceRoom, 12.0_d9a71418-29e9-4c9a-9d3a-1366ebe38e7c) Description: null Count: 0 Version: 12.0

Status: Init

故障排除

收集与注册相关的故障排除问题的日志:

- 从CUCM CLI捕获数据包
- 许可证管理器日志
- 来自卫星的诊断日志

已知的 Bug

思科漏洞ID CSCvh16069:思科智能许可卫星无法借用更高级别的许可证以符合要求。

思科漏洞ID CSCvf86710: 思科智能许可证管理器平台服务不运行。

思科漏洞ID CSCvc94366: 向CSSM注册的CUCM智能许可证不接受代理端口443。

思科漏洞ID CSCvh72897



:在代理服务器上启用授权时,无法使用代理服务器。

相关信息

<u>智能软件管理器卫星安装指南</u> <u>思科智能软件管理器卫星用户指南</u>

<u>技术支持和文档 - Cisco Systems</u>

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