配置CUCM智能许可 — 直接模式

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简介

本文档介绍直接模式配置,以将CUCM直接与智能帐户同步。

先决条件

要求

Cisco 建议您了解以下主题:

• Cisco Unified Communications Manager (CUCM) 12.0 版

使用的组件

本文档中的信息基于 Cisco Call Manager 12.0 版。

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

思科智能软件许可是一种考虑许可的新方式。它简化了整个企业的许可体验,使购买、部署、跟踪和续订思科软件更加容易。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,并且订单与智能帐户相关联,此信息将填充在智能软件管理器中 ,该管理器位于cisco.com。现在,您可以全面了解您已订购和购买的产品。

已启用智能许可的产品(通过CLI或GUI)已注册到CSSM,他们向CSSM报告许可证使用情况。有 两种型号用于报告使用情况:

直接模型 — 在设备可以直接与Internet通信或可以通过HTTPS代理连接到Internet的客户环境中使 用此模型。到Cisco.com的通信通过HTTPS,因此所有流量在传输中加密。如果流量通过HTTPS代 理或传输网关发送,则如果需要应用其他检查或安全策略,设备与Cisco.com之间的所有通信将通 过集中位置进行信道。

中介部署模型— 在设备没有任何形式可以连接到Internet因而无法访问Cisco.com的网络中使用此 模型。此部署模式要求您在客户驻地安装CSSM卫星虚拟机,然后所有内部主机都可以访问。本地 部署卫星可以按每月、每周在cisco.com上与CSSM同步的连接模式部署,也可以按完全断开的配置 (需要手动上传和下载文件以保持卫星同步)部署。建议至少每30天进行一次同步。

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。
- 要创建合作伙伴暂持智能帐户,请使用您的CCO ID登录CSC并发起合作伙伴暂持帐户申请。
- 在CCW中订购时,您还可以启动对任一类型智能帐户的申请。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项网络服务,仅在CUCM发布服务器上运行。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。由于用户上没有运行任何服务,因此无法从子设备

UCM中的智能许可状态

智能许可有两种主要状态:

注册状态:注册状态有三种:

- 未识别/未注册
- •已注册
- 未注册已过期

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 <u>Smart Software Manager</u> or <u>Smart Software Manager</u> 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.

除了此智能许可状态外,UCM还提供**90天的超额期**(这是使用传统许可的12.0之前版本中已存在的 概念。UCM还将继续为客户提供智能许可的平均期限)

配置(直接部署)

注意:为了让直接部署发挥作用,您的CUCM必须能够连接到Internet。

配置

1. 使用您的用户名和密码登录<u>https://software.cisco.com/</u>。

2. 在智能软件许可下选择资产。

3. 生成新令牌。

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isco Software Central > Smart Softw	are Licensing				English [Change]	💄 Hello, Divva Jain	IN BU Production Te
Smart Software Lice	ensing					Fe	edback Support He
erts Inventory License Conve	rsion Reports Prefer	ences Satellites	Activity			Questions At Try our Virtue	oout Licensing?
irtual Account: TAC-Colla	bTesting					0	Major Hide Alerts
General Licenses Pr	roduct Instances Eve	nt Log					
Virtual Account							
Description:	Creating this VA f	or TAC team to test Sma	art licensing for UCN	12.0 release			
Product Instance Registration The registration tokens below can be New Token	Tokens used to register new product Subjection Data	t instances to this virtual	account.	5		Constant Day	Atlan
Token M2IwNWNKYWQtMiViMS00MT	Expiration Date 2019-Jan-26 09:31:55 (in	365 days) prema-cu	ucm	A	kport-Controlled	Created By divjain2	Actions -

4. 在CUCM管理员页面下,导航到System > Licensing > License Management > View/Edit the Licensing Smart Call Home settings,然后选中Verify Direct并更新Production CSSM URL。

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For Cisco Unified Communications Solutions			a	dmin Searc	
System Call Routing Media Resources Advanced Features	Device Application User Management	Buk Administration 👻 Help 👻			
License Management					
Status You are currently Unregistered. To register your system w - Ensure your system has access to the internet or a Sme ▲ Lugin to your smart account in Simaat, Statusan, Manasat, - Generate a Product Internet Registration Trikento ident - Generate a Product Internet Registration Trikento ident - Return to this page, click the Register button, and use the Smart Software Licensing	ith Cisco Smart Software licensing: it Software Manager satellite installed on your no or your Smart Software Manager satellite. Wy your Smart Account) and copy or save it. e copied or saved Token to register the product.	Transport Settings - Mozilla Firefox - □ × O ♠ https://10.106.111.182/ccmadmin/licensingTransportSetting: □ ···· ♥ ☆ Ξ Status Status: Ready			
Registration Status Licanse Authorization Status Transport Settings Licansing Mode Register		A Uncestistered Examinion Period Expired (Thursday, November 9, 2017 11 Dived Yven/Clifth Licensing Smart Call Home settings Enterprise	Configure how the product instance will communicate with Cisco. [®] Direct - product communicates directly with Cisco licensing servers. URL : https://tools.cico.com/fs/service/dodes/services/DDCEService OTransport Gateway - proxy data via Transport Gateway or Smart Software Manager satellite. URL : URL :		
Uncerte Usage Keport Delow is a summary of current license usage on the syste View All License Type Descriptions And Device Classifications Update Usage Details Usage Details Last Updated: 2018-01 License Registrations and by Type	m. Current usage details for each type are avail -26 15:04:20	OHTTP/HTTPS Proxy - send data via an intermediate HTTP or HTTPS Proxy. IP Address/Host Name : Port : Save Close			
License Requirements by Type	Current Herzen	Ekster	Report		
CUWL Enhanced Plus Enhanced Basic Essential TelePresence Room	0 0 5 2 0 0	Waiting Waiting Waiting O Evaluation Period Expired Evaluation Period Expired Waiting Waiting Waiting	Users(.0.) Unassigned Devices(.0.) Users(.0.) Users(.1.) Unassigned Devices(.0.) Users(.0.) Unassigned Devices(.0.) Users(.0.) Unassigned Devices(.0.) Users(.0.) Unassigned Devices(.0.)		
Users and Unassigned devices Users Unassigned Devices Smart Licensing Product Registration The license for this system are managed by <u>Smart Software</u> .	3 4 Manager	View, Usage Report View, Usage Report			

- 5. 单击Register并粘贴在步骤3中创建的令牌,然后单击Register。也可以从cli执行此操作
 - : license smart register idtoken <token> [force]

🕹 Reregister Window - Mozilla Firefox			×
Image:	•••	♥ ☆	≡
-Status			
Registration completed successfully			
Smart Software Licensing Product Registration			
To reregister the product for Smart Software Licensing:			
Paste the Product Instance Registration Token you generated from <u>Smar</u> or your Smart Software Manager satellite	t Softv	vare Mai	nager
Product Instance Registration Token:		_	
M2IwNWNkYWQtMjViMS00MTYzLWE0MWQtODM3ZDE0NWUzOTZlLTE1NDg x%0AMTUyNzh8cENEU0hYUWJpZURPYnJqelJKWTFyUVFoczNXZWJWK1Jtc JB%0AZXRYbz0%3D%0A	0OTU 3ozUG		
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验证

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License Management									
- Smart Software Licensing									
Antipation Status									
License Authorization Status	Authorized (Friday, January 26, 2018 3):11:27 PM IST)								
Smart Account	BU Production Test								
Virtual Account	TAC-CollabTesting								
Transport Settings	Direct View/Edit the Licensing Smart Call Home settings								
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r License Usage Report									
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view All License, type Descriptions and Device Classifications									
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Current Usage	Status	Report							
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•显示许可证摘要

智能许可已启用。

Registration:									
Status: REGISTERED									
Smart Account: BU Production Test									
Virtual Account: TAC-CollabTesting									
Last Renewal Attempt: None									
Next Renewal Attem	ıpt: Jul	25 15:11:23	2018 IST						
License Authorizatio	n:								
Status: AUTHORIZED)								
Last Communication Attempt: SUCCEEDED									
Next Communication Attempt: Feb 25 15:12:59 2018 IST									
License Usage:									
License		Entitlemer	Entitlement Tag						
				Count	Status				
	·								
			-						
		regid.201	7-02.com.cisco.UCM_	CUWL,12.0_cc59375a	-1cd8-4b36-8366-				
6f4d2abba965	0	Ir	nit						
		regid.2010	6-07.com.cisco.UCM_	EnhancedPlus,12.0_	d8372792-588c-4caa-				
b279-8587e5ce2f82	0	Init							
66d0d1cf-4863-4761	-91d0-d0	1d3eb1949are	egid.2016-07.com.ci	sco.UCM_Enhanced,1	2.0_66d0d1cf-4863-				
4761-91d0-d01d3eb194	.9a	5	InCompliance						
ef827a2f-f4ae-4ebb	-887f-05	2737063d3ar	egid.2016-07.com.ci	sco.UCM_Basic,12.0	_ef827a2f-f4ae-4ebb-				
887f-052737063d3a		2	InCompliance						
		regid.2010	6-07.com.cisco.UCM_	Essential,12.0_25f	9c396-c67c-4519-				
aa98-d4b3ad18f805	0	Ir	nit						
		regid.2016	6-07.com.cisco.UCM_	TelePresenceRoom,1	2.0_d9a71418-29e9-				
4c9a-9d3a-1366ebe38e	:7c 0	Init	t						
 show license UI 	וכ								
	27624 1		dda80240ba02da0 ⁻	71007027624					
	310Z4,U	010.016039		100/00/024					

• 全部显示许可证

```
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_66d0dlcf-4863-
4761-91d0-d01d3eb1949a)
  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-052737063d3a)
  Description: UC Manager Basic License
  Count: 2
  Version: 12.0
  Status: InCompliance
 (regid.2016-07.com.cisco.UCM_Essential,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
```

Smart Licensing is ENABLED

故障排除

请收集以下日志以解决与注册相关的问题:

- •从CUCM CLI捕获数据包
- 许可证管理器日志

已知的 Bug

思科漏洞ID CSCvh16069
 :思科智能许可卫星不能从更高级别借用许可证来使其合规。
 思科漏洞ID CSCvf86710
 :思科智能许可证管理器平台服务未运行。
 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。

相关信息

• <u>技术支持和文档 - Cisco Systems</u>

关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言,希望全球的用户都能通过各 自的语言得到支持性的内容。

请注意:即使是最好的机器翻译,其准确度也不及专业翻译人员的水平。

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