

Guia do Cisco Meeting Server (Acano)/Integração de TMS e agendamento de API

Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Componentes Utilizados](#)

[Configurar](#)

[Verificar](#)

[Comunicação de API](#)

[Adição de CMS ao TMS](#)

[Criar espaços reservados de conferência](#)

[Crie uma conferência agendada e discagem automática](#)

[Estender uma conferência](#)

[Encerrar/remover uma conferência](#)

[Troubleshoot](#)

Introduction

Este documento descreve como o servidor CMS 2.0 (Acano) se integra e se comunica com TMS (15.3) como um recurso gerenciado.

Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento destes tópicos:

- Noções básicas sobre TMS (Cisco TelePresence Management Suite)
- Conceitos do CMS (Cisco Meeting Server, Acano anterior)

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- TMS 15.3 ou posterior
- CMS 2.0 ou posterior

Note: Antes do TMS 15.3, você conseguia adicionar um servidor Acano como uma ponte não gerenciada, mas não havia funcionalidade total.

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.

Configurar

adicionar um servidor do CMS gerenciado aos TMS é relativamente simples e funciona de forma semelhante a adicionar um MCU ou TPS.

Etapa 1. Navegue até o local do navegador desejado e selecione **Adicionar dispositivo**, como de costume. Se uma porta fora do padrão está sendo usada para o serviço de webadmin (como 445), certifique-se de que ela seja acrescentada ao final do Endereço IP ao adicioná-lo, por exemplo com x.x.x.x:445.

The screenshot shows the 'Add by Address' configuration page. It includes tabs for 'Add by Address', 'Add from Unified CM or TMS', 'Add Unmanaged Endpoint', 'Add Unmanaged Bridge', and 'Pre-register Systems'. The main section is titled 'Specify Systems by IP Addresses or DNS Names' and contains a text input field with '14.80.82.30'. Below this is the 'Location Settings' section with dropdown menus for 'ISDN Zone' (Test Zone), 'IP Zone' (Test Zone), and 'Time Zone' ((UTC-05:00) Eastern Time (US & Canada)). The 'Advanced Settings' section includes fields for 'Username' (admin), 'Password' (masked), 'SNMP Community Names' (public,Public), 'Persistent Template' (No Template), and 'Usage Type' (Meeting Room).

- Depois de adicionar o dispositivo, você verá o sistema adicionado com avisos. Ele deve ser detectado como um **Cisco Meeting Server** para tipo, mas não tem um nome de sistema (isso é normal):

The screenshot shows the 'Add Result' page with a table titled 'Systems Found'. The table has columns for 'Network Address', 'System Name', 'System Type', and 'Description'. One system is listed: '14.80.82.30' with 'No Name (14.80.82.30)' as the system name, 'Cisco Meeting Server' as the system type, and 'System added despite warnings' as the description. There are buttons for 'Add System Despite Warnings', 'Remove Systems', 'Finish Adding Systems', and 'Add More Systems'.

Network Address	System Name	System Type	Description
<input type="checkbox"/> 14.80.82.30	No Name (14.80.82.30)	Cisco Meeting Server	System added despite warnings

- A visualização da página de informações mostrará dois erros/avisos:

No Name (14.80.82.30)
 Cisco Meeting Server Status: Idle Address: 14.80.82.30 Connectivity: Reachable on LAN

Summary Settings Clustering Connection Permissions Logs

Tickets

Open:

- #37 - Dial Number Configuration Error (7/27/2016 11:34:42 AM)
Domain, Numeric ID Base and Numeric ID Quantity details are not set. More...
- #35 - Blank System Name (7/27/2016 11:34:42 AM)
The name of the system is blank.

▸ Add custom ticket ▸ Open in Ticketing Service ▸ Edit settings

System Status

Call Bridge Uptime:	4d, 22:09:44	Audio Bit Rate Outgoing:	0 Kbit/s
CallLegs Active:	0	Audio Bit Rate Incoming:	0 Kbit/s
CallLegs Max Active:	3	Video Bit Rate Outgoing:	0 Kbit/s
CallLegs Completed:	7	Video Bit Rate Incoming:	0 Kbit/s

This Week's Bookings

There are no bookings for this system in the next 7 days.

▸ Book conference with this system

Etapa 2. Defina um nome de sistema em **Settings > Edit Settings**. Isso pode ser qualquer nome, o TMS utiliza isso para se referir a ponte como

Etapa 3. Enderece a outra mensagem navegando para **Configurações > Configurações estendidas** e configure o intervalo de ID de domínio e conferência. O domínio é usado para formar URIs de acordo com o número de conferência, portanto, certifique-se de atribuir um domínio que possa ser roteado para o CMS na rede (e não tenha as regras de discagem de entrada adequadas configuradas no CMS).

CMS Core Primary
 Cisco Meeting Server Status: Idle Address: 14.80.82.30 Connectivity: Reachable on LAN

Summary Settings Clustering Connection Permissions Logs

View Settings Edit Settings **Extended Settings** Ticket Filters

Extended Settings

Domain:

Numeric ID Base:

Numeric ID Quantity:

Save

Refresh

Etapa 4. Após fazer essas alterações de configuração, o CMS deve estar livre de erros ou avisos no TMS.

CMS Core Primary
 Cisco Meeting Server Status: Idle Address: 14.80.82.30 Connectivity: Reachable on LAN

Summary Settings Clustering Connection Permissions Logs

Tickets

✔ System has no open or acknowledged tickets

▸ Add custom ticket ▸ Open in Ticketing Service ▸ Edit settings

System Status

Call Bridge Uptime:	4d, 22:11:52	Audio Bit Rate Outgoing:	0 Kbit/s
CallLegs Active:	0	Audio Bit Rate Incoming:	0 Kbit/s
CallLegs Max Active:	3	Video Bit Rate Outgoing:	0 Kbit/s
CallLegs Completed:	7	Video Bit Rate Incoming:	0 Kbit/s

This Week's Bookings

There are no bookings for this system in the next 7 days.

▸ Book conference with this system

Etapa 5. Para verificar se tudo foi configurado corretamente, você pode verificar no CMS para garantir que os slots de reunião adequados tenha sido alocados como espaços. O TMS cria um espaço para cada slot de reunião denominado **TMS_Scheduled_Meeting_x** onde x é o número da reunião dentro do intervalo especificado.



Status Configuration Logs

Space configuration

Filter Submit Query

<input type="checkbox"/>	Name	URI user part	Secondary URI user part	Additional access methods	Call ID
<input type="checkbox"/>	Cool Bridge Space	cool.bridge.space			497540167
<input type="checkbox"/>	It's testacano1's Space!	testacano1.space			020710167
<input type="checkbox"/>	It's testacano2's Space!	testacano2.space			136456483
<input type="checkbox"/>	It's testacano3's Space!	testacano3.space			529987622
<input type="checkbox"/>	TMS_Scheduled_Meeting_1	1			1
<input type="checkbox"/>	TMS_Scheduled_Meeting_2	2			2
<input type="checkbox"/>	TMS_Scheduled_Meeting_3	3			3
<input type="checkbox"/>	TMS_Scheduled_Meeting_4	4			4
<input type="checkbox"/>	TMS_Scheduled_Meeting_5	5			5
	<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="text"/>

1

Delete

O TMS detecta automaticamente quaisquer outros callbridges em cluster com o CMS que adicionado por meio da API. Ele pode ser confirmado se estiver correto quando você navega para a guia **Clustering**.

CMS Core Primary
Cisco Meeting Server Status: Idle Address: 14.80.82.30 Connectivity: Reachable on LAN

Summary Settings **Clustering** Connection Permissions Logs

System Name	Primary
CMS Core Primary	✓
14.80.82.31	

Observação: é importante observar que isso não significa que o TMS faça automaticamente o failover para essa callbridge caso o principal adicionado fique inativo. Na situação atual, ele já não fala diretamente com algo que seja diferente do servidor CMS adicionado, mas descobre os outros por meio da API **GET para callbridges (cada callbridge conhece todos os outros)**.

Etapa 6. Para configurar o failover, você deve navegar de volta para a página **Editar configurações** do CMS no TMS. Em **Network Settings (Configurações de rede)** configure o **IP alternativo, nome de usuário e senha**. O campo **Alternate IP (IP alternativo)** deve ter um menu suspenso preenchido automaticamente por outros callbridges detectados no cluster. O TMS somente falha na callbridge especificada. Se houver mais de duas callbridges no cluster, o TMS não pode usar os outros. Isso é apenas para reuniões futuras. Se um callbridge fica inativo no meio da conferência, o TMS não migra os usuários para a alternativa.

CMS Core Primary
 Cisco Meeting Server Status: Idle Address: 14.80.82.30 Connectivity: Reachable on LAN

Summary Settings Clustering Connection Permissions Logs

View Settings Edit Settings Extended Settings Ticket Filters

General

Name: CMS Core Primary Status:
 System Type: Cisco Meeting Server Your Access:
 System Connectivity: Reachable on LAN System Contact:
 Network Address: 14.80.82.30 Alert System Contact when Booked: No
 Manufacturer: Cisco Description:
 IP Zone: Test Zone
 Time Zone: (UTC-05:00) Eastern Time (US & Car)
 Web Bridge URI: https://<webbridgeaddress>.port

Configuration

Software Version: 2.0(RC)

Network Settings

Alternate IP: 14.80.82.31 SIP Mode: On
 Alternate IP Username: admin
 Alternate IP Password: *****

TMS Scheduling Settings

Allow Booking: Allow Outgoing SIP URI Dialing:
 Allow Incoming SIP URI Dialing:

Save Force Refresh

Não é necessário adicionar manualmente outros callbridges agrupados no TMS. Se você tentar adicionar uma pessoa que o TMS já detectou como parte do cluster, recebe um erro.

Description

X The 14.80.82.31 is part of a clustered call bridge and has already been added in TMS through 14.80.82.30. Retry after entering a new IP.

O TMS agora está pronto para agendar reuniões no CMS. Se houver vários tipos de pontes adicionados ao TMS, o CMS podem ser atribuído em **Administrator Tools > General Settings > Conference Settings** (Ferramentas do administrador > Configurações gerais > Configurações de conferência), onde o campo **Prefer MCU Type in Routing (Preferir tipo de MCU no roteamento)** pode ser definido como **Cisco Meeting Server**.

Verificar

Comunicação de API

A seguir estão exemplos de comunicação de API entre TMS e CMS, extraídas do arquivo de registro do CMS com **API debug logging (Registro de depuração de API)** ativado.

Adição de CMS ao TMS

O TMS obtém e executa os métodos **GET métodos para extrair informações básicas do CMS**. A saída abaixo mostra o processo de executar **GET para callbridges**, em seguida, **GET para cada callbridge específico retornado**, e **receber informações adicionais como o IP**. Esse é o método de o TMS descobrir outros servidores no cluster. Ele também cria um perfil de chamada e o perfil de segmento de chamada para reuniões.

```

Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889: GET for
"/api/v1/system/status" (from 14.80.99.226)
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889: sending 200 response, size
518
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889: <status>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889:
<softwareVersion>2.0 (RC) </softwareVersion>

```

Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889: <uptimeSeconds>333717</uptimeSeconds>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889: <cdrTime>2016-07-26T14:08:19Z</cdrTime>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889: <activated>true</activated>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889: <clusterEnabled>true</clusterEnabled>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889: <callLegsActive>0</callLegsActive>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889: <callLegsMaxActive>3</callLegsMaxActive>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889: [...]
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8889: </status>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8890: **GET for**
"/api/v1/callBridges" (from 14.80.99.226)
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8890: sending 200 response, size 250
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8890: <callBridges total="2">
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8890: <callBridge id="0e3758db-b9b8-49df-a74c-55fa05e3e21d">
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8890: <name>CallBridge-Core1</name>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8890: </callBridge>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8890: <callBridge id="cfe31846-ca57-4703-9e11-da3e72a13066">
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8890: <name>CallBridge-Core2</name>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8890: </callBridge>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8890: </callBridges>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8891: **GET for**
"/api/v1/callBridges/0e3758db-b9b8-49df-a74c-55fa05e3e21d" (from 14.80.99.226)
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8891: sending 200 response, size 178
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8891: <callBridge id="0e3758db-b9b8-49df-a74c-55fa05e3e21d">
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8891: <name>CallBridge-Core1</name>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8891: <address>https://14.80.82.30</address>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8891: <sipDomain></sipDomain>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8891: </callBridge>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8892: **GET for**
"/api/v1/callBridges/cfe31846-ca57-4703-9e11-da3e72a13066" (from 14.80.99.226)
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8892: sending 200 response, size 178
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8892: <callBridge id="cfe31846-ca57-4703-9e11-da3e72a13066">
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8892: <name>CallBridge-Core2</name>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8892: <address>https://14.80.82.31</address>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8892: <sipDomain></sipDomain>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8892: </callBridge>
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8893: **POST for**
"/api/v1/callProfiles" (from 14.80.99.226)
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8893: content data size 47, type "application/x-www-form-urlencoded":
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8893: participantLimit=1000&
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8893: messageBoardEnabled=false
Jul 26 14:08:23 local0.info Core1 host:server: INFO : 14.80.99.226: API user "admin" created new call profile 1285fa9c-f221-4af7-8462-51cf1d7542eb
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8893: sending 200 response, size 0

```
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8893: Location:
/api/v1/callProfiles/1285fa9c-f221-4af7-8462-51cf1d7542eb
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8894: POST for
"/api/v1/callLegProfiles" (from 14.80.99.226)
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8894: content data size 167, type
"application/x-www-form-urlencoded":
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8894:
defaultLayout=telepresence&
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8894: changeLayoutAllowed=true&
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8894:
presentationContributionAllowed=true&
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8894:
presentationViewingAllowed=true&
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8894: muteSelfAllowed=true&
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8894: videoMuteSelfAllowed=true
Jul 26 14:08:23 local0.info Core1 host:server: INFO : 14.80.99.226: API user "admin" created
new call leg profile 734447d1-4251-442f-b127-ab3304b643f8
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8894: sending 200 response, size
0
Jul 26 14:08:23 user.info Core1 host:server: INFO : API trace 8894: Location:
/api/v1/callLegProfiles/734447d1-4251-442f-b127-ab3304b643f8
```

Criar espaços reservados de conferência

No exemplo abaixo, o TMS cria um **Conjunto de parâmetros em massa CoSpace** que inclui informações sobre o início e o número das IDs de reunião, um nome de mapeamento que define o nome de cada instância de reunião, o perfil de chamada e perfil de segmento da chamada criado na seção anterior e o campo **nonMemberAccess** definido como falso, que impede que os usuários entrem em qualquer um desses espaços.

O próximo TMS é um **POST para sospaceBulkSyncs** que consulta e executa o conjunto de parâmetros criados anteriormente. Depois disso, faz **GET** para a ID da sincronização em massa que acabou de ser executada para confirmar a conclusão do processo.

Finalmente, o TMS executa o status **GET** para confirmar novamente as informações de conexão básicas.

```
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: POST for
"/api/v1/cospaceBulkParameterSets" (from 14.80.99.226)
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: content data size 250, type
"application/x-www-form-urlencoded":
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: startIndex=1&
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: endIndex=5&
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: coSpaceUriMapping=&
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954:
coSpaceNameMapping=TMS_Scheduled_Meeting_
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: &
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: coSpaceCallIdMapping=&
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: callProfile=1285fa9c-f221-
4af7-8462-51cf1d7542eb
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: &
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: callLegProfile=734447d1-
4251-442f-b127-ab3304b64
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: 3f8&
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: nonMemberAccess=false
Jul 26 14:12:31 local0.info Core1 host:server: INFO : 14.80.99.226: API user "admin" created
new object type 29 beac931c-ae88-4f5f-b6b7-71a1c4bdaf8e
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: sending 200 response, size
```

0
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8954: Location:
/api/v1/cospaceBulkParameterSets/beac931c-ae88-4f5f-b6b7-71a1c4bdaf8e
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8955: **POST for**
"/api/v1/cospaceBulkSyncs" (from 14.80.99.226)
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8955: content data size 60, type
"application/x-www-form-urlencoded":
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8955:
cospaceBulkParameterSet=beac931c-ae88-4f5f-b6b7-
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8955: 71a1c4bdaf8e
Jul 26 14:12:31 local0.info Core1 host:server: INFO : 14.80.99.226: API user "admin" created
new object type 30 071e7bf5-c0d8-4d2a-b321-7b07c799829c
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8955: sending 200 response, size
0
Jul 26 14:12:31 user.info Core1 host:server: INFO : API trace 8955: Location:
/api/v1/cospaceBulkSyncs/071e7bf5-c0d8-4d2a-b321-7b07c799829c
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8956: **GET for**
"/api/v1/cospaceBulkSyncs/071e7bf5-c0d8-4d2a-b321-7b07c799829c" (from 14.80.99.226)
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8956: sending 200 response, size
210
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8956: <cospaceBulkSync
id="071e7bf5-c0d8-4d2a-b321-7b07c799829c">
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8956:
<cospaceBulkParameterSet>beac931c-ae88-4f5f-b6b7-71a1c4bdaf8e</cospaceBulkParameterSet>
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8956: <status>complete</status>
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8956: </cospaceBulkSync>
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957: **GET for**
"/api/v1/system/status" (from 14.80.99.226)
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957: sending 200 response, size
518
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957: <status>
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957:
<softwareVersion>2.0(RC)</softwareVersion>
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957:
<uptimeSeconds>333966</uptimeSeconds>
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957: <cdrTime>2016-07-
26T14:12:29Z</cdrTime>
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957:
<activated>true</activated>
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957:
<clusterEnabled>true</clusterEnabled>
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957:
<callLegsActive>0</callLegsActive>
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957:
<callLegsMaxActive>3</callLegsMaxActive>
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957: [...]
Jul 26 14:12:33 user.info Core1 host:server: INFO : API trace 8957: </status>

Crie uma conferência agendada e discagem automática

Quando é hora de iniciar uma reunião, o TMS primeiro executa **GET para o status e para os participantes (não há certeza sobre quais resultados dos participantes são usados neste momento)**. Em seguida, o TMS executa **GET para coSpaces** para visualizar quais realmente estão em uso. O TMS seleciona a conferência menor no intervalo que não está atualmente em uso para uma sessão agendada (em outras palavras, se houver apenas uma conferência por vez, o TMS sempre usa TMS_Scheduled_Meeting_1).

Depois de identificar a reunião a ser usada, o TMS faz **PUT para a identificação do espaço específico, altera o nome e o campo de permissão nonMemberAccess**, em seguida, permite que outras pessoas participem da conferência. O TMS também cria uma instância de chamada dentro desse espaço para permitir o controle de discagem.

O próximo TMS é **GET para status, CoSpaces e chamadas para verificar as instâncias criadas**. Se CMS estiver configurado para discar automaticamente para qualquer participante da conferência, então o TMS faz **GET para callegs**. Para iniciar a nova chamada para um endpoint, o TMS faz **GET para a instância de chamada específica criada anteriormente criando um novo calleg**. No conteúdo para que esse **POST** inclui a **URI do endpoint para discar o campo de conteúdo remoteParty**".

Qualquer chamada iniciada nesse método contarão com as regras de discagem de saída no CMS, portanto, deve ser configurada corretamente.

```
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496: GET for
"/api/v1/system/status" (from 14.80.99.226)
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496: sending 200 response, size
518
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496: <status>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496:
<softwareVersion>2.0(RC)</softwareVersion>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496:
<uptimeSeconds>351847</uptimeSeconds>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496: <cdrTime>2016-07-
26T19:10:30Z</cdrTime>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496:
<activated>>true</activated>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496:
<clusterEnabled>>true</clusterEnabled>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496:
<callLegsActive>0</callLegsActive>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496:
<callLegsMaxActive>3</callLegsMaxActive>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496: [ ... ]
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9496: </status>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9497: GET for
"/api/v1/participants" (from 14.80.99.226)
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9498: GET for "/api/v1/coSpaces"
(from 14.80.99.226)
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9498: sending 401 response, size
0
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9498: WWW-Authenticate: Basic
realm="acano"
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9497: sending 200 response, size
60
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9497: <participants
total="0"></participants>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499: GET for "/api/v1/coSpaces"
(from 14.80.99.226)
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499: sending 200 response, size
788
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499: <coSpaces total="4">
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499: <coSpace id="2be23a10-
f400-4436-baef-6058f55ca688">
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499: <name>Cool Bridge
Space</name>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499:
<autoGenerated>>false</autoGenerated>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499:
<uri>cool.bridge.space</uri>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499: <callId>497540167</callId>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499: </coSpace>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499: <coSpace id="f4c9601b-
300e-43ac-a283-3e1a00699c2c">
```

Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499: [...]
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9499: </coSpaces>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9500: **PUT for**
"/api/v1/cospaces/458075bc-6def-4052-8ed6-b1192d6e6b35" (from 14.80.99.226)
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9500: content data size 117, type
"application/x-www-form-urlencoded":
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9500: &
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9500: nonMemberAccess=true&
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9500: passcode=*****
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9500: name=Tim Kratzke Acano
TMSXE Test Meeting&
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9500: secret=86db1bdd-5cf7-4ea8-
b88d-479195f4701a
Jul 26 19:10:34 local0.info Core1 host:server: INFO : 14.80.99.226: API user "admin" modified
space 458075bc-6def-4052-8ed6-b1192d6e6b35 (Tim Kratzke Acano TMSXE Test Meeting)
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9500: sending 200 response, size
0
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9501: **POST for "/api/v1/calls"**
(from 14.80.99.226)
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9501: content data size 44, type
"application/x-www-form-urlencoded":
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9501: coSpace=458075bc-6def-
4052-8ed6-b1192d6e6b35
Jul 26 19:10:34 local0.info Core1 host:server: INFO : 14.80.99.226: API user "admin" created
new call ce5ee392-7be6-4227-a7ee-b4f16a5fdd16
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9501: sending 200 response, size
0
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9501: Location:
/api/v1/calls/ce5ee392-7be6-4227-a7ee-b4f16a5fdd16
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502: **GET for**
"/api/v1/system/status" (from 14.80.99.226)
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502: sending 200 response, size
518
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502: <status>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502:
<softwareVersion>2.0(RC)</softwareVersion>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502:
<uptimeSeconds>351848</uptimeSeconds>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502: <cdrTime>2016-07-
26T19:10:30Z</cdrTime>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502:
<activated>>true</activated>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502:
<clusterEnabled>>true</clusterEnabled>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502:
<callLegsActive>0</callLegsActive>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502:
<callLegsMaxActive>3</callLegsMaxActive>
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502: [...]
Jul 26 19:10:34 user.info Core1 host:server: INFO : API trace 9502: </status>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503: **GET for "/api/v1/coSpaces"**
(from 14.80.99.226)
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503: sending 200 response, size
801
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503: <coSpaces total="4">
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503: <coSpace id="2be23a10-
f400-4436-baef-6058f55ca688">
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503: <name>Cool Bridge
Space</name>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503:
<autoGenerated>>false</autoGenerated>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503:
<uri>cool.bridge.space</uri>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503: <callId>497540167</callId>

```

Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503: </coSpace>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503: <coSpace id="f4c9601b-300e-43ac-a283-3e1a00699c2c">
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503: [ ... ]
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9503: </coSpaces>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9504: GET for "/api/v1/calls"
(from 14.80.99.226)
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9504: sending 200 response, size 253
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9504: <calls total="1">
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9504: <call id="ce5ee392-7be6-4227-a7ee-b4f16a5fdd16">
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9504: <name>Tim Kratzke Acano TMSXE Test Meeting</name>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9504: <coSpace>458075bc-6def-4052-8ed6-b1192d6e6b35</coSpace>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9504: <callCorrelator>76331036-6887-4d88-87ea-2a24a2f585d4</callCorrelator>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9504: </call>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9504: </calls>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9505: GET for "/api/v1/callegs"
(from 14.80.99.226)
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9505: sending 200 response, size 52
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9505: <callLegs total="0"></callLegs>
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9506: POST for "/api/v1/calls/ce5ee392-7be6-4227-a7ee-b4f16a5fdd16/callegs" (from 14.80.99.226)
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9506: content data size 36, type "application/x-www-form-urlencoded":
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9506: remoteParty=desk.ex90@tkratzke.local
Jul 26 19:10:35 local0.info Core1 host:server: INFO : 14.80.99.226: API user "admin" created new call leg 9f003b66-0539-4513-b609-ed0d93d09781, call ce5ee392-7be6-4227-a7ee-b4f16a5fdd16
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9506: sending 200 response, size 0
Jul 26 19:10:35 user.info Core1 host:server: INFO : API trace 9506: Location: /api/v1/callLegs/9f003b66-0539-4513-b609-ed0d93d09781
Jul 26 19:10:35 user.info Core1 host:server: INFO : call 7: outgoing SIP call to "desk.ex90@tkratzke.local" from space "Tim Kratzke Acano TMSXE Test Meeting"
Jul 26 19:10:35 user.info Core1 host:server: INFO : handshake error 104 on outgoing connection 4
Jul 26 19:10:35 user.info Core1 host:server: INFO : call 7: falling back to unencrypted control connection...
Jul 26 19:10:35 user.info Core1 host:server: INFO : call 7: SIP call ringing
Jul 26 19:10:35 local0.info Core1 host:server: INFO : participant "desk.ex90@tkratzke.local" joined space 458075bc-6def-4052-8ed6-b1192d6e6b35 (Tim Kratzke Acano TMSXE Test Meeting)
Jul 26 19:10:37 user.info Core1 host:server: INFO : conference "Tim Kratzke Acano TMSXE Test Meeting": unencrypted call legs now present

```

Estender uma conferência

Quando você estende uma reunião, o TMS simplesmente executa **PUT no espaço específico novamente com os mesmos campos de conteúdo da criação**. Não há nenhum parâmetro para um limite de tempo de espaço usado nesse caso, portanto, esse comando API na realidade não mantém a reunião "ativa", mas serve como referência para saber se a reunião foi estendida no lado CMS.

```

Jul 26 19:35:04 user.info Core1 host:server: INFO : API trace 9711: PUT for "/api/v1/cospaces/458075bc-6def-4052-8ed6-b1192d6e6b35" (from 14.80.99.226)

```

```

Jul 26 19:35:04 user.info Core1 host:server: INFO : API trace 9711: content data size 117, type
"application/x-www-form-urlencoded":
Jul 26 19:35:04 user.info Core1 host:server: INFO : API trace 9711: &
Jul 26 19:35:04 user.info Core1 host:server: INFO : API trace 9711: nonMemberAccess=true&
Jul 26 19:35:04 user.info Core1 host:server: INFO : API trace 9711: passcode=*****
Jul 26 19:35:04 user.info Core1 host:server: INFO : API trace 9711: name=Tim Kratzke Acano
TMSXE Test Meeting&
Jul 26 19:35:04 user.info Core1 host:server: INFO : API trace 9711: secret=86db1bdd-5cf7-4ea8-
b88d-479195f4701a
Jul 26 19:35:04 local0.info Core1 host:server: INFO : 14.80.99.226: API user "admin" modified
space 458075bc-6def-4052-8ed6-b1192d6e6b35 (Tim Kratzke Acano TMSXE Test Meeting)
Jul 26 19:35:04 user.info Core1 host:server: INFO : API trace 9711: sending 200 response, size
0
Jul 26 19:35:10 user.info Core1 authp: re-registration from server "callbridge-
core2.acanolab2.tkratzke.local"

```

Encerrar/remover uma conferência

Quando uma conferência é encerrada, o TMS novamente passa por uma variedade de verificações de status via comandos **GET** antes de realizar todas as ações. Em seguida, o TMS executa **PUT** no espaço correspondente para a reunião que está sendo encerrada e volta o nome para o valor de espaço reservado e define `nonMemberAccess` de volta como falso para que os usuários e terminais não possam mais participar.

Por fim, o TMS envia **DELETE** para a instância de chamada criada dentro do espaço.

```

Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874: GET for
"/api/v1/system/status" (from 14.80.99.226)
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874: sending 200 response, size
518
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874: <status>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874:
<softwareVersion>2.0(RC)</softwareVersion>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874:
<uptimeSeconds>354538</uptimeSeconds>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874: <cdrTime>2016-07-
26T19:55:21Z</cdrTime>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874:
<activated>>true</activated>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874:
<clusterEnabled>>true</clusterEnabled>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874:
<callLegsActive>0</callLegsActive>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874:
<callLegsMaxActive>3</callLegsMaxActive>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874: [ ... ]
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9874: </status>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875: GET for "/api/v1/coSpaces"
(from 14.80.99.226)
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875: sending 200 response, size
801
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875: <coSpaces total="4">
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875: <coSpace id="2be23a10-
f400-4436-baef-6058f55ca688">
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875: <name>Cool Bridge
Space</name>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875:
<autoGenerated>>false</autoGenerated>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875:
<uri>cool.bridge.space</uri>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875: <callId>497540167</callId>

```

```

Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875: </coSpace>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875: <coSpace id="f4c9601b-300e-43ac-a283-3e1a00699c2c">
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875: [ ... ]
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9875: </coSpaces>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9876: GET for "/api/v1/calls"
(from 14.80.99.226)
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9876: sending 200 response, size 253
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9876: <calls total="1">
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9876: <call id="ce5ee392-7be6-4227-a7ee-b4f16a5fdd16">
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9876: <name>Tim Kratzke Acano TMSXE Test Meeting</name>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9876: <coSpace>458075bc-6def-4052-8ed6-b1192d6e6b35</coSpace>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9876: <callCorrelator>76331036-6887-4d88-87ea-2a24a2f585d4</callCorrelator>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9876: </call>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9876: </calls>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: GET for "/api/v1/coSpaces"
(from 14.80.99.226)
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: sending 200 response, size 801
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: <coSpaces total="4">
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: <coSpace id="2be23a10-f400-4436-baef-6058f55ca688">
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: <name>Cool Bridge Space</name>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: <autoGenerated>>false</autoGenerated>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: <uri>cool.bridge.space</uri>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: <callId>497540167</callId>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: </coSpace>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: <coSpace id="f4c9601b-300e-43ac-a283-3e1a00699c2c">
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: [ ... ]
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9877: </coSpaces>
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9878: PUT for "/api/v1/cospaces/458075bc-6def-4052-8ed6-b1192d6e6b35" (from 14.80.99.226)
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9878: content data size 83, type "application/x-www-form-urlencoded":
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9878: &
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9878: nonMemberAccess=false&
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9878: passcode=*****
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9878: name=TMS_Scheduled_Meeting_1&
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9878: regenerateSecret=true
Jul 26 19:55:25 local0.info Core1 host:server: INFO : 14.80.99.226: API user "admin" modified space 458075bc-6def-4052-8ed6-b1192d6e6b35 (TMS_Scheduled_Meeting_1)
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9878: sending 200 response, size 0
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9879: DELETE for "/api/v1/calls/ce5ee392-7be6-4227-a7ee-b4f16a5fdd16" (from 14.80.99.226)
Jul 26 19:55:25 local0.info Core1 host:server: INFO : 14.80.99.226: API user "admin" deleted call ce5ee392-7be6-4227-a7ee-b4f16a5fdd16
Jul 26 19:55:25 user.info Core1 host:server: INFO : API trace 9879: sending 200 response, size 0

```

Troubleshoot

Atualmente, não existem informações disponíveis específicas sobre Troubleshooting para esta configuração.