

Configuring a Single Dialed Number to Route Calls to a Group of IP Phones

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- Group Dialed Number
- Hunt Groups
- Attendant Console

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Introduction

This document explains how to configure a single dialed number (DN#) that is associated with a group of IP phones.

Prerequisites

Requirements

Cisco recommends you have knowledge of Cisco CallManager 3.x and 4.x.

Components Used

The information in this document is based on these software and hardware versions:

- Cisco CallManager version 3.3
- Cisco CallManager version 4.0

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

Refer to the Cisco Technical Tips Conventions for more information on document conventions.

Configuration Choices for Cisco CallManager 3.x

This section explains how to associate a single DN# to a group of destinations using Cisco CallManager 3.3. There are three ways to accomplish this:

- Group Dialed Number
- Hunt Groups
- Attendant Console

Group Dialed Number

In this procedure, assign a separate DN# (which is shared by the group) to a second line appearance on each group member's phone.

This solution works for the initial call. When a call to a group DN# is answered, the group line lamp is lit on all phones associated with the group DN#. If a different caller tries to dial the group DN# while the group call is in effect, the caller receives a busy signal, or is forwarded to voicemail.

Assume that you have three IP phones registered with the Cisco CallManager:

- Phone A with Primary Line appearance 2001
- Phone B with Primary Line appearance 2002
- Phone C with Primary Line appearance 2003

Assign the shared number 2000 to the secondary line of the IP phones A, B and C.

Complete these steps to add a shared directory number to a specific phone. Refer to Directory Number Configuration Settings for more information.

1. Choose **Device > Phone** from the main Cisco CallManager menu to display the Find and List Phones window.
2. Click **Find**.

A list of phones displays. Click the device name to which you want to add a shared directory number. For example, click on **Phone A (DN# 2001)**.

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration
For Cisco IP Telephony Solutions

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Find and List Phones

[Add a New Phone](#)

4 matching record(s) for Device Name begins with ""

Find phones where begins with

and show items per page

To list all items, click Find without entering any search text, or use "Device Name is not empty" as the search.

Matching record(s) 1 to 4 of 4
Real-time Information Service returned information for 4 of 4 devices listed below.

<input type="checkbox"/>	Device Name	Description	Device Pool	Status	IP Address	Copy
<input type="checkbox"/>	SEP0006537892EA	Auto 2010	Default	10.77.208.26	10.77.241.144	
<input type="checkbox"/>	SEP000A8A34431A	Auto 2001	Default	10.77.208.26	10.77.241.143	
<input type="checkbox"/>	SEP000A8A93E0A8	Auto 2002	Default	10.77.208.26	10.77.241.142	
<input type="checkbox"/>	SEP000A8A93E0F9	Auto 2003	Default	10.77.208.26	10.77.241.141	

First Previous Next Last Page of 1

3. In the Phone Configuration window, Directory Numbers list is displayed. Click on **Line 2 – Add new DN**.

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Phone Configuration

[Add a new phone](#)
[Add/Update Speed Dials](#)
[Subscribe/Unsubscribe Services](#)
[Back to Find/List Phones](#)

Directory Numbers

Base Phone

- vms Line 1 - 2001 (no Partition)
- vms Line 2 - Add new DN

Phone: SEP000A8A34431A (Auto 2001)
Registration: Registered with Cisco CallManager 10.77.208.26
IP Address: 10.77.241.143
Status: Ready

Phone Configuration (Model = Cisco 7960)

Device Information

MAC Address*

Description

Device Pool* [\(view details\)](#)

Calling Search Space

AAR Calling Search Space

Media Resource Group List

User Hold Audio Source

Network Hold Audio Source

Location

User Locale

Network Locale

Phone Button and Expansion Module Template Information

- When the Directory Number Configuration window displays, enter the Directory Number as **2000** (shared DN#).

If you set Ring Setting (Phone Active)** as **Ring**, all phones ring when an incoming call is received. You can also set the option Forward Busy to **voicemail**. By doing so, if a caller tries to dial 2000 while the group call is in effect, the call is forwarded to voicemail. Refer to Directory Number Configuration Settings for more information.

- Click **Insert**.
- When the message displays stating that the directory number 2000 has been added to the database, click **OK**.
- Click **Back to Find/List Phones**.
- Click the next device name to which you want to add a directory number.

For example, click on **Phone B (DN# 2002)** and repeat steps 3 through 6 for Phone B. Once you are completed with Phone B, repeat these steps for Phone C (DN# 2003).

- For the changes to take effect, select all the phones and click **Reset Selected** from the Back to Find/List Phones page.

With these configurations, if a caller tries to dial the group DN# 2000, all the phones ring at the same time. When a call to group DN# 2000 is answered, the group line lamp is lit on all phones associated with the group DN# 2000. If the caller tries to dial the group DN# 2000 while the group call is in effect, the caller receives a busy signal, or is forwarded to voicemail, based on the configuration. In this case, the call is forwarded to the voicemail.

Hunt Groups

Set up a series of phones that forward no answer or forward busy to the next phone in the group to create a Hunt Group.

In this situation, all phones do not ring at one time. A Hunt Group is a group of lines that are organized hierarchically, so that if the first number in the Hunt Group list is busy, the second number is dialed. If the second number is busy, the next number is dialed, and so on. This example illustrates the process.

Assume you have Pilot DN# with a number of 2000, and a Hunt Group defined with a list of phones similar to this:

- Phone A has extension 2000.
- Phone B has extension 2001.
- Phone C has extension 2002.

Configure the DN for 2000 on Phone A to forward on a busy or a no answer condition to Phone B's extension 2001.

Configure the DN for 2001 on Phone B to forward on a busy or a no answer condition to Phone C's extension 2002.

With the assumption that Phones A, B, and C are already registered with the Cisco CallManager and have the directory numbers 2000, 2001, and 2002 assigned respectively, complete these steps to create the Hunt Group.

Complete these steps to configure the DN for 2000 on Phone A to forward on a busy or a no answer condition to Phone B's extension 2001:

1. In the Find and List Phones window, click on **Phone A (DN 2000)** and then click on **Line 1 – 2000 (no Partition)** in the Phone Configuration window.

The screenshot displays the Cisco CallManager Administration web interface. At the top, there is a navigation menu with links for System, Route Plan, Service, Feature, Device, User, Application, and Help. Below the menu is the Cisco CallManager Administration logo and the Cisco Systems logo. The main heading is "Phone Configuration". On the right side, there are several links: "Add a new phone", "Add/Update Speed Dials", "Subscribe/Unsubscribe Services", and "Back to Find/List Phones".

The left sidebar shows a "Directory Numbers" section with a "Base Phone" section. It lists "Line 1 - 2000 (no. Partition)" and "Line 2 - Add new DN".

The main content area shows the configuration for "Phone: SEP000A8A93E0F9 (Auto 2000)". It indicates the phone is "Registered with Cisco CallManager 10.77.208.26" and has an "IP Address: 10.77.241.141". The status is "Ready". There are buttons for "Copy", "Update", "Delete", and "Reset Phone".

Below this, there is a "Phone Configuration (Model = Cisco 7960)" section with a "Device Information" sub-section. The fields are as follows:

MAC Address*	000A8A93E0F9
Description	Auto 2000
Device Pool*	Default (View details)
Calling Search Space	< None >
AAR Calling Search Space	< None >
Media Resource Group List	< None >
User Hold Audio Source	< None >
Network Hold Audio Source	< None >

2. Configure the Forward Busy destination as **2001** in the Directory Number Configuration window and click on **Update**. Then click **OK** when the message for resetting the device appears.

Refer to Directory Number Configuration Settings for more information

Directory Number Configuration Configure Device (SEP000A8A93E0F9)

Devices using this Directory Number

SEP000A8A93E0F9 (Line 1)

Directory Number: 2000
Status: Ready

Update Delete Reset Devices

Directory Number

Directory Number* 2000
Partition <None >

Directory Number Settings

Voice Mail Profile <None >
Calling Search Space <None >
AAR Group <None >
User Hold Audio Source <None >
Network Hold Audio Source <None >
Call Waiting Default
Auto Answer Auto Answer Off

Call Forward and Pickup Settings

	Voice Mail	Destination	Calling Search Space
Forward All	<input type="checkbox"/>		<None >
Forward Busy	<input type="checkbox"/>	2001	<None >

3. Click **Reset Devices** for the changes to take effect.

A message indicates that you are about to reset the devices with the directory number 2000. Click **OK** to reset the devices, or click **Cancel** to cancel the process.

4. Repeat the steps 1 through 3 for Phone B. In step 2, set the Call forward Busy Destination as **2002** instead of 2001.

With the information configured above, this process should occur in order to place a group call.

- Call #1: to DN# 2000** This call is routed to Cisco CallManager. Cisco CallManager rings Phone A, and Phone A is answered.
- Call #2: to DN# 2000** This call finds Phone A is busy. Cisco CallManager rings Phone B, and Phone B is answered.
- Call #3: to DN# 2000** This call finds both Phones A and B are busy. Cisco CallManager rings Phone C, and Phone C is answered.

This process describes three different outside callers calling DN# 2000. Cisco CallManager routes the call to the next available IP phone in the Hunt Group. The call routing is transparent to the caller. All phones do not ring in this scenario.

Attendant Console

The third option, with Cisco CallManager 3.1(2c) and later, is to use Attendant Console to create a Hunt Group. Attendant Console allows you the flexibility to establish a Pilot Point for incoming calls and then distributes the incoming calls on a phone or line level amongst multiple attendants. For example, a caller places a direct call to a technical support group member, and if that member is not available, the call is forwarded to the pilot point number. You can choose to route the call to the first available Hunt Group

member or to distribute the incoming call load among the Hunt Group members. Cisco CallManager Attendant Console can accept inbound calls, query the caller for destination information, and rapidly dispatch the call without operator intervention. Attendant Console does not have the functionality of monitoring which members are logged in the call group.

Note: Make sure that you already have Attendant Console installed on your PC. Refer to Installing the Cisco CallManager Attendant Console on the User PC for information on this.

In this example, a pilot point named **Pilot** is associated with the directory number 4000. The Hunt Group for this pilot point contains these members:

- Phone A: 2005
- Phone B: 2006
- Phone C: 2007

1. Choose **Service > Cisco CallManager Attendant Console**.

Note: For Cisco CallManager versions before to 3.3, choose **Service > Cisco WebAttendant**.



2. Enter the appropriate settings in the Pilot Point Configuration window. In this example, the name given for the Pilot Point is **Pilot**. Pilot number **4000** Click **Insert**. (Refer to Pilot Point Configuration Settings) and click **Insert**.

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Cisco CallManager Administration
For Cisco IP Telephony Solutions

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Pilot Point Configuration

[Hunt Group Configuration](#)
[Cisco CallManager Attendant Console User Configuration](#)
[Cisco CallManager Attendant Console Server Configuration](#)

Pilot Points
<Add a New Pilot Point>
There are no pilots

Pilot Point: New
Pilot Number (DirN): Not Assigned

Status: Delete completed

Pilot Name*

Device Pool*

Partition

Calling Search Space

Pilot Number (DirN)*

Route Calls to

* indicates required item

3. Click **Hunt Group Configuration**.

The Hunt Group Configuration window displays, and the pilot points display in the pane on the left of the window.

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For Cisco IP Telephony Solutions

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Hunt Group Configuration

[Pilot Point Configuration](#)
[Cisco CallManager Attendant Console User Configuration](#)
[Cisco CallManager Attendant Console Server Configuration](#)

Pilot Points

Pilot	4000
-------	------

Pilot Point: Select a Pilot Point
Pilot Number (DirN): Not Assigned

Status: Ready

Hunt Group Members

▲
▼

Device Member Information

Partition: < None >
Directory Number:
Always Route Member:

4. Click the pilot point for which you want to add Hunt Group members.

In this case, the pilot point is 4000. Click **Add Member**. The Hunt Group Members list initially displays the text <<Not Configured>>.

System Route Plan Service Feature Device User Application Help

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Hunt Group Configuration

[Pilot Point Configuration](#)
[Cisco CallManager Attendant Console User Configuration](#)
[Cisco CallManager Attendant Console Server Configuration](#)

Pilot Points

Pilot	4000
-------	------

Pilot Point: Pilot
Pilot Number (DirN): 4000

Status: Ready

Hunt Group Members

▲
▼

<< Not Configured >>

Device Member Information

Partition: < None >

5. Decide whether the Hunt Group member that you want to add will be a directory number (device member) or a user and line number (user member).

Enter the appropriate configuration settings for the new Hunt Group member. If the Hunt Group member is a directory number, fill in only the Partition and Directory Number fields in the Device Member Information section. The optional **Always Route Member** check box only applies to directory numbers. If the Hunt Group member is a user and line number, fill in only the User Name and Line Number fields in the User Member Information section. Refer to Hunt Group Configuration Settings for more information. Add the Hunt Group Members **2005**, **2006**, and **2007** one by one. As you make selections, the Hunt Group Members list box reflects the information that you choose.

Hunt Group Configuration

Pilot Point Configuration
Cisco CallManager Attendant Console User Configuration
Cisco CallManager Attendant Console Server Configuration

Pilot Points

Pilot 4000

Pilot Point: Pilot
Pilot Number (DirN): 4000

Status: Ready

Add Member Update Delete Member

Hunt Group Members

- #1: Call directory number 2005
- #2: Call directory number 2006
- #3: Call directory number 2007

Device Member Information

Partition: < None >

Directory Number:

Always Route Member:

User Member Information

User Name: < None >

Line Number: < None >

6. Click **Update** to save the Hunt Group Member information

With this information configured, this process happens when the Attendant Console receives a call. When the call is received, the Attendant Console directs it to the Pilot Point (named Pilot) with the directory number 4000. Since 4000 is a pilot point and First Available Hunt Group Member is chosen as the call-routing option, the Cisco Telephony Call Dispatcher (TCD) that is associated with the pilot point checks the members of the Hunt Group in order, beginning with 2005. Now, Cisco TCD routes the call to the first available directory number.

Refer to the Cisco CallManager Attendant Console Administration Guide for more information on Pilot Points and Hunt Groups.

Configuration Choices for Cisco CallManager 4.x

This section explains how to associate a single DN# to a group of destinations using Cisco CallManager 4.0. There are three ways to accomplish this:

- Group Dialed Number

- Hunt Groups
- Attendant Console

Group Dialed Number

Assign a separate DN# (which is shared by the group) to a second line appearance on each group member's phone.

This solution works for the initial call. When a call to group DN# is answered, the group line lamp is lit on all phones associated with the group DN#. If a different caller tries to dial the group DN# while the group call is in effect, the caller receives a busy signal, or is forwarded to voicemail.

Assume that you have three IP phones registered with the Cisco CallManager:

- Phone A with Primary Line appearance 2001
- Phone B with Primary Line appearance 2002
- Phone C with Primary Line appearance 2003

Assign the shared number 2000 to the secondary line of the IP phones A, B and C. These are the steps to add a shared directory number to a specific phone. Refer to Directory Number Configuration Settings for more information.

1. Choose **Device > Phone** from the main Cisco CallManager menu.
2. Click **Find** when the Find and List Phones window displays.

When a list of phones displays, click the device name to which you want to add a shared directory number. For example, click on **Phone A (DN# 2001)**.

Find and List Phones

[Add a New Phone](#)

4 matching record(s) for Device Name begins with ""

Find phones where begins with and show items per page. Allow wildcards.

To list all items, click Find without entering any search text, or use "Device Name is not empty" as the search.

Matching record(s) 1 to 4 of 4

Real-time Information Service returned information for 4 of 4 devices listed below.

<input type="checkbox"/>	Device Name	Description	Device Pool	Status	IP Address	Copy
<input type="checkbox"/>	 SEP0006537B92EA	Auto 2009	Default	10.77.208.13	10.77.241.144	
<input type="checkbox"/>	 SEP000A8A34431A	Auto 2003	Default	10.77.208.13	10.77.241.143	
<input type="checkbox"/>	 SEP000A8A93E0AB	Auto 2001	Default	10.77.208.13	10.77.241.142	
<input type="checkbox"/>	 SEP000A8A93E0F9	Auto 2002	Default	10.77.208.13	10.77.241.141	

First Previous Next Last

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- In the Phone Configuration window, the Directory Numbers list is displayed. Click on **Line 2 – Add new DN**.

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[Add a new phone](#)
[Add/Update Speed Dials](#)
[Subscribe/Unsubscribe Services](#)
[Dependency Records](#)
[Back to Find/List Phones](#)

Phone Configuration

Directory Numbers

- Line 1 - 2001
- Line 2 - Add new DN

Phone: SEP000A8A93E0AB (Auto 2001)
 Registration: Registered with Cisco CallManager 10.77.208.13
 IP Address: [10.77.241.142](#)

Status: Ready

Phone Configuration (Model = Cisco 7960)

Device Information

MAC Address*	<input type="text" value="000A8A93E0AB"/>
Description	<input type="text" value="Auto 2001"/>
Owner User ID	<input type="text"/> (Select User ID)
Device Pool*	Default (View details)
Calling Search Space	< None >
AAR Calling Search Space	< None >
Media Resource Group List	< None >
User Hold Audio Source	< None >
Network Hold Audio Source	< None >
Location	< None >
User Locale	< None >

4. When the Directory Number Configuration window displays, enter the Directory Number as **2000** (shared DN#).

If you set the Ring Setting (Phone Active)** to **Ring**, all phones ring when an incoming call is received. You can also set the option Forward Busy to **voicemail**. By doing so, if a caller tries to dial 2000 while the group call is in effect, the call is forwarded to voicemail. Refer to Directory Number Configuration Settings for more information.

System Route Plan Service Feature Device User Application Help

Cisco CallManager Administration For Cisco IP Telephony Solutions

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Directory Number Configuration

[Configure Device \(SEP000A8A93E0A8\)](#)

Associated With

Directory Number: New
 Status: Ready
 Note: Any update to this Directory Number automatically reset the associated devices

Directory Number

Directory Number*
 Partition

Directory Number Settings

Voice Mail Profile (Choose <None> to use default)
 Calling Search Space
 AAR Group
 User Hold Audio Source
 Network Hold Audio Source
 Auto Answer

Call Forward and Pickup Settings

	Voice Mail	Destination	Calling Search Space
Forward All	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" <None >"/>
Forward Busy	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text" value=" <None >"/>
Forward No Answer	<input type="checkbox"/>	<input type="text"/>	<input type="text" value=" <None >"/>
No Answer Ring Duration	<input type="text"/>	(seconds)	

5. Click **Add**.

A message displays which states that the directory number has been added to the database. Click **OK**.

6. Click on **Back to Find/List Phones** and click the next device name to which you want to add a directory number.

For example, click on **Phone B** (DN# 2002) and repeat steps 2 through 5 for Phone B. Once you are completed with Phone B, repeat these steps for Phone C (DN# 2003).

7. For the changes to take effect, select all the phones and click **Reset Selected** from the Back to Find/List Phones page.

With these configurations, if a caller tries to dial the group DN# 2000, all the phones ring at the same time. When a call to group DN# (2000) is answered, the group line lamp is lit on all phones associated with the group DN# 2000. If the caller tries to dial the group DN# 2000 while the group call is in effect, the caller receives a busy signal, or is forwarded to voicemail based on the configuration. In this case, the calls are forwarded to the voicemail.

Hunt Groups

Set up a series of phones that forward no answer or forward busy to the next phone in the group to create a Hunt Group.

In this situation, all phones do not ring at one time. A Hunt Group is a group of lines that are organized hierarchically, so that if the first number in the Hunt Group list is busy, the second number is dialed. If the second number is busy, the next number is dialed, and so on. This example illustrates the process.

Assume you have Pilot DN# with a number of 2000, and a Hunt Group defined with a list of phones similar to this:

- Phone A has extension 2000.
- Phone B has extension 2001.
- Phone C has extension 2002.

Configure the DN for 2000 on Phone A to forward on a busy or a no answer condition to Phone B's extension 2001.

Configure the DN for 2001 on Phone B to forward on a busy or a no answer condition to Phone C's extension 2002.

With the assumption that the Phones A, B, and C are already registered with the Cisco CallManager and have the Directory Numbers 2000, 2001 and 2002 assigned respectively, complete these steps to create the Hunt Group.

Complete these steps to configure the DN for 2000 on Phone A to forward on a busy or a no answer condition to Phone B's extension 2001:

1. In the Find and List Phones window, click on **Phone A** (DN# 2000) and click on **Line 1 – 2000** in the Phone configuration window.

System Route Plan Service Feature Device User Application Help

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Phone Configuration

[Add a new phone](#)
[Add/Update Speed Dials](#)
[Subscribe/Unsubscribe Services](#)
[Dependency Records](#)
[Back to Find/List Phones](#)

Directory Numbers

- Line 1 - 2000
- Line 2 - Add new DN

Phone: SEP000A8A34431A (Auto 2000)
Registration: Registered with Cisco CallManager 10.77.208.13
IP Address: 10.77.241.143
Status: Ready

Copy Update Delete Reset Phone

Phone Configuration (Model = Cisco 7960)

Device Information

MAC Address* 000A8A34431A

Description Auto 2000

Owner User ID (Select User ID)

Device Pool* Default (View details)

Calling Search Space <None >

AAR Calling Search Space <None >

Media Resource Group List <None >

2. Configure the Forward Busy destination to **2001** in the Directory Number Configuration window and click **Update**.

Refer to Directory Number Configuration Settings for more information.

Calling Search Space	< None >
A&R Group	< None >
User Hold Audio Source	< None >
Network Hold Audio Source	< None >
Auto Answer	Auto Answer Off
Call Forward and Pickup Settings	
	Voice Mail Destination Calling Search Space
Forward All	<input type="checkbox"/> [] < None >
Forward Busy	<input type="checkbox"/> [2001] < None >
Forward No Answer	<input type="checkbox"/> [] < None >
No Answer Ring Duration	[] (seconds)
Call Pickup Group	< None >
Multilevel Precedence and Preemption Alternate Party Settings	
Target (Destination)	[]
Calling Search Space	< None >
No Answer Ring Duration	[]
Line Settings for this Device	
	Value
Display (Internal Caller ID)	[]

3. Click **Reset Devices** for the changes to take effect.

A message indicates that you are about to reset the devices with directory number 2000. Click **OK** to reset the devices, or click **Cancel** to cancel the process.

4. Repeat steps 1 through 3 for Phone B.

In step 2, set the Call forward Busy Destination to **2002** instead of 2001.

With the information configured, this process should occur in order to place a group call.

- a. **Call #1: to DN# 2000** This call is routed to Cisco CallManager. Cisco CallManager rings Phone A, and Phone A is answered.
- b. **Call #2: to DN# 2000** This call finds Phone A is busy. Cisco CallManager rings Phone B, and Phone B is answered.
- c. **Call #3: to DN# 2000** This call finds both Phones A and B are busy. Cisco CallManager rings Phone C, and Phone C is answered.

This process describes three different outside callers that call DN# 2000. Cisco CallManager routes the call to the next available IP phone in the Hunt Group. The call routing is transparent to the caller. All phones do not ring in this scenario.

Note: If none of the above DNs answers or an overflow condition happens, the call can be forwarded to a voice-messaging or auto-attendant number as the final member of the last linked hunt group in the chain. Make sure you check the **Always Route Member** check box in the Hunt Group Configuration window for only the final member of each hunt group.

Attendant Console

The third option, with Cisco CallManager 3.1(2c) and later, is to use Attendant Console to create a Hunt Group. Attendant Console allows you the flexibility to establish a Pilot Point for incoming calls and then distribute the incoming calls on a phone or line level amongst multiple attendants. For example, a caller places

a direct call to a technical support group member, and if that member is not available, the calls is forward to the pilot point number. You can choose to route the call to the first available Hunt Group member or to distribute the incoming call load among the Hunt Group members. Cisco CallManager Attendant Console can accept inbound calls, query the caller for destination information, and rapidly dispatch the call without operator intervention. Attendant Console does not have the functionality of monitoring which members are logged in the call group.

Note: Make sure that you already have Attendant Console installed on your PC. Refer to Installing the Cisco CallManager Attendant Console on the User PC for more information on this.

In the following example, a pilot point named **Pilot** is associated with the directory number 4000. The Hunt Group for this pilot point contains these members:

- Phone A: 2005
- Phone B: 2006
- Phone C: 2007

1. Choose **Service > Cisco CM Attendant Console > Pilot Point**.



2. Click on **Add a New Pilot Point**.

Enter the appropriate settings, in the Pilot Point Configuration window. In this example, the name given for the Pilot Name is **Pilot**. Pilot number **4000** Click **Insert**.

System Route Plan Service Feature Device User Application Help

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CISCO SYSTEMS

Pilot Point Configuration

[Add a New Pilot Point](#)
[Back to Find/List Pilot Points](#)

Pilot Point: New
Pilot Number: Not Assigned

Status: Ready

Pilot Name*

Device Pool*

Partition

Calling Search Space

Pilot Number *

Route Calls to

* indicates required item

3. Choose **Service > Cisco CM Attendant Console > Hunt Group**.

System Route Plan **Service** Feature Device User Application Help

Cisco CallMa
For Cisco IP Telephony Sol

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

Pilot Point
Hunt Group
Cisco CM Attendant Console User
Cisco CM Attendant Console Server

CISCO SYSTEMS

Cisco CallManager 4.0 Administration

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4. The Hunt Group Configuration window displays, and the pilot points display in the pane on the left of the window. Click the pilot point for which you want to add Hunt Group members. In this case, the pilot point is 4000.



Cisco CallManager Administration
For Cisco IP Telephony Solutions

Hunt Group Configuration

Pilot Points

Pilot	4000
-------	------

Pilot Point: Select a Pilot Point
Pilot Number (DirN): Not Assigned

Status: Ready

Add Member Update Delete Member

Hunt Group Members

Device Member Information

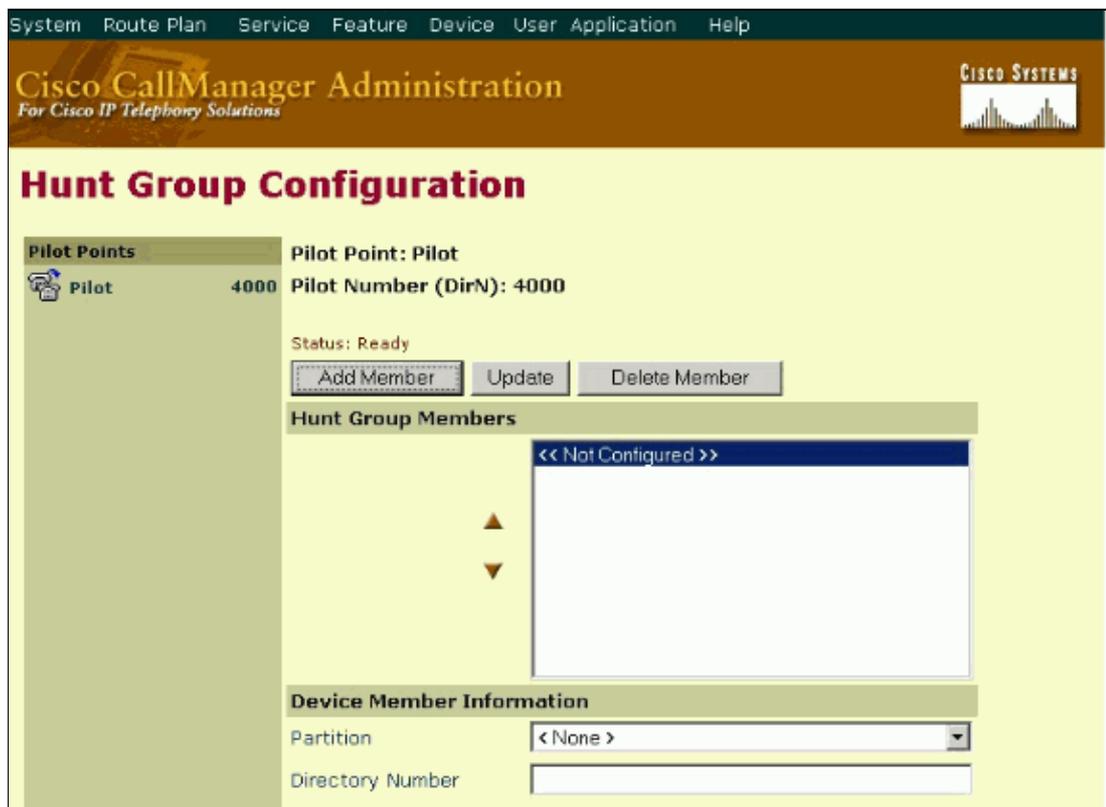
Partition: <None >
Directory Number:
Always Route Member:

User Member Information

User Name: <None >

5. Click **Add Member**.

The Hunt Group Members list initially displays the text <<Not Configured>>.



System Route Plan Service Feature Device User Application Help

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Hunt Group Configuration

Pilot Points

Pilot	4000
-------	------

Pilot Point: Pilot
Pilot Number (DirN): 4000

Status: Ready

Add Member Update Delete Member

Hunt Group Members

<< Not Configured >>

Device Member Information

Partition: <None >
Directory Number:

6. Decide whether the Hunt Group member that you want to add is a directory number (device member) or a user and line number (user member).

Enter the appropriate configuration settings for the new Hunt Group member. If the Hunt Group member is a directory number, fill in only the Partition and Directory Number fields in the Device Member Information section. The optional **Always Route Member** check box only applies to directory numbers. If the Hunt Group member is a user and line number, fill in only the User Name and Line Number fields in the User Member Information section. Refer to Hunt Group Configuration Settings for more information. Add the Hunt Group Members **2005**, **2006**, and **2007** one by one. As you make selections, the Hunt Group Members list box reflects the information that you choose.

Note: In order to handle overflow conditions, choose a voice-messaging or auto-attendant number as the final member of the last **linked hunt group** in the chain. Check the **Always Route Member** check box to ensure that the voice messaging system can handle multiple, simultaneous calls. In a **broadcast hunt group**, a call is routed to **Always Route Member** when the queue is full or if the queue hold time is exceeded. This can be used to avoid calls getting stuck in the queue.

Hunt Group Configuration

Pilot Points
Pilot 4000

Pilot Point: Pilot
Pilot Number (DirN): 4000

Status: Ready

Add Member Update Delete Member

Hunt Group Members

- #1: Call directory number 2005
- #2: Call directory number 2006
- #3: Call directory number 2007

Device Member Information

Partition: < None >
Directory Number: 2007
Always Route Member:

User Member Information

User Name: < None >
Line Number: < None >

7. Click **Update** to save the Hunt Group member information

With the information configured here, this process happens when the Attendant Console receives a call. When the call is received, the Attendant Console directs it to the Pilot Point (named Pilot) with the directory number 4000. Since 4000 is a Pilot Point and First Available Hunt Group Member is chosen as the call-routing option, the Cisco TCD that is associated with the pilot point checks the members of the Hunt Group in order, beginning with 2005. Now, Cisco TCD routes the call to the first available directory number.

Note: With this configuration, if Hunt Group member 2006 logs in first, followed by Hunt Group member 2005, the hunting might start with Hunt Group member 2006 before it starts with Hunt Group member 2005. Although in the Hunt Group, member 2005 is the first that needs to be checked, Cisco CallManager might follow the order in which the members log in. If you experience this problem with the order of calls received, restart the TCD and CTI services and reset the Pilot Point with all the members logged in.

Refer to the Cisco CallManager Attendant Console Administration Guide for more information on Pilot Points and Hunt Groups.

Related Information

- **Cisco CallManager Documentation Guide for Release 4.0(1)**
 - **Cisco CallManager Documentation Guide for Release 3.3(1)**
 - **Cisco CallManager Attendant Console Documentation**
 - **Voice Technology Support**
 - **Voice and Unified Communications Product Support**
 - **Troubleshooting Cisco IP Telephony** [🔗](#)
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