



Path Analysis Configuration

This chapter, which provides an overview of Path Analysis, contains the following topics:

- [Understanding Path Analysis, page 23-1](#)
- [Setting Up Call Detail Records Logging, page 23-2](#)

Using Path Analysis with Cisco CallManager requires the installation of the Common Management Foundation 1.1.1 Voice Manager patch on the CiscoWorks2000 server.

Understanding Path Analysis

Path Analysis, a diagnostic application, traces connectivity between two specified points on a network. It analyzes both physical and logical paths (Layer 2 and Layer 3) taken by packets flowing between those points.

After a call completes, PathTool traces the route of audio packets by specifying the directory number of the calling and called parties. This applies to calls among any of the following endpoints: Cisco IP phones, analog devices connected to a station gateway, or trunk gateways (analog or digital).

For more information, consult CiscoWorks2000 online help.

The information presented here assists you in setting up Cisco CallManager. You can display the paths that are traced in the form of maps, trace logs, or tables in CiscoWorks2000 Campus Manager.

Related Topics

To learn more about CiscoWorks2000, access the following URL:
<http://www.cisco.com/univercd/cc/td/doc/product/rtrmgmt/cw2000/index.htm>

Setting Up Call Detail Records Logging

You can activate Voice over IP (VoIP) traces only when Cisco CallManager is installed with call detail record (CDR) logging enabled. The default status specifies disabled.

From the Cisco CallManager Administration window, perform the following procedure to enable CDR logging (see [Figure 23-1](#)).

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- Step 1** Choose **Service > Service Parameters**.
 - Step 2** Choose IP address of your Cisco CallManager server.
 - Step 3** Click the **Next** button.
 - Step 4** Choose the Cisco CallManager service.
 - Step 5** In the Parameter Value field, choose True for the CdrEnabled service parameter.
 - Step 6** Click the **Update** button.
- Call detail records start logging immediately.


**Caution**

Tracing voice connectivity requires that CDR logging be enabled on *every* Cisco CallManager server in a cluster.

Figure 23-1 Enable CDR Logging

Service Parameters Configuration [Select Another Server](#)
[Select Another Service](#)

Current Server : 172.20.84.13

Current Service: Cisco CallManager 

Status: Ready

Parameter Name	Parameter Value	Suggested Value
AbleToEstablishMF*	<input type="text" value="True"/>	True
AlwaysUsePrimeLine*	<input type="text" value="False"/>	False
AnalogAccessUse729*	<input type="text" value="False"/>	False
Attendant*	<input type="text" value="Attendant"/>	
CallAcceptTimer*	<input type="text" value="10"/>	10
CallDiagnosticsEnabled*	<input type="text" value="True"/>	False
CallDiagnosticsMaxRcdsToBuffer*	<input type="text" value="0"/>	0
CallerID*	<input type="text" value="default"/>	
CallParkReversionTimeout*	<input type="text" value="60"/>	60
CallWaitingEnable*	<input type="text" value="True"/>	True
CallWaitingTimeout*	<input type="text" value="180"/>	180
CdrEnabled*	<input type="text" value="True"/>	False

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■ **Setting Up Call Detail Records Logging**