



## Preface

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This guide describes how to configure a single context or multiple contexts on the Cisco Application Control Engine (ACE) module for the Catalyst 6500 series switches or a Cisco 7600 series router, hereinafter referred to as the switch or router, respectively.

Multiple contexts use the concept of virtualization to partition your ACE into multiple virtual devices or contexts. The guide describes how to use the virtualization feature tools to closely and efficiently manage the system resources and users of the ACE, and the services you provide to your customers.

You can configure the ACE by using the following interfaces:

- The command-line interface (CLI), a line-oriented user interface that provides commands for configuring, managing, and monitoring the ACE.
- Device Manager graphic user interface (GUI), a Web browser-based GUI interface that provides a graphical user interface for configuring, managing, and monitoring the ACE.

This preface contains the following major sections:

- [Audience](#)
- [How to Use This Guide](#)
- [Related Documentation](#)
- [Symbols and Conventions](#)
- [Obtaining Documentation, Obtaining Support, and Security Guidelines](#)

## Audience

This guide is intended for the following trained and qualified service personnel who are responsible for configuring the ACE:

- Web master
- System administrator
- System operator

## How to Use This Guide

This guide is organized as follows:

Chapter	Description
<a href="#">Chapter 1, Overview</a>	Provides an overview of the basic concepts to partition your ACE into multiple virtual devices or contexts. It includes information about: <ul style="list-style-type: none"> <li>• Contexts</li> <li>• Domains</li> <li>• Role-Based Access Control (RBAC)</li> <li>• Resource Classes</li> </ul>
<a href="#">Chapter 2, Configuring Virtualization</a>	Describes how to configure the ACE to operate in either a single context or in multiple contexts, allocate resources, create domains, and create users and user roles. This chapter also describes how to display configuration and statistical information for the contexts configured on your ACE.

## Related Documentation

In addition to this document, the ACE documentation set includes the following:

Document Title	Description
<i>Release Note for the Cisco Application Control Engine Module</i>	Provides information about operating considerations, caveats, and command-line interface (CLI) commands for the ACE.
<i>Cisco Application Control Engine (ACE30) Module Installation Note</i>	Provides information for installing the ACE30 into the Catalyst 6500 series switch or a Cisco 7600 series router.
<i>Cisco Application Control Engine Module Getting Started Guide</i>	Describes how to perform the initial setup and configuration tasks for the ACE.
<i>Cisco Application Control Engine Module Administration Guide</i>	Describes how to perform the following administration tasks on the ACE: <ul style="list-style-type: none"> <li>• Setting up the ACE</li> <li>• Establishing remote access</li> <li>• Managing software licenses</li> <li>• Configuring class maps and policy maps</li> <li>• Managing the ACE software</li> <li>• Configuring SNMP</li> <li>• Configuring redundancy</li> <li>• Configuring the XML interface</li> <li>• Upgrading the ACE software</li> </ul>

<b>Document Title</b>	<b>Description</b>
<i>Cisco Application Control Engine Module Routing and Bridging Configuration Guide</i>	<p>Describes how to perform the following routing and bridging tasks on the ACE:</p> <ul style="list-style-type: none"> <li>• Configuring VLAN interfaces</li> <li>• Configuring routing</li> <li>• Configuring bridging</li> <li>• Configuring Dynamic Host Configuration Protocol (DHCP)</li> </ul>
<i>Cisco Application Control Engine Module Server Load-Balancing Configuration Guide</i>	<p>Describes how to configure the following server load-balancing features on the ACE:</p> <ul style="list-style-type: none"> <li>• Real servers and server farms</li> <li>• Class maps and policy maps to load balance traffic to real servers in server farms</li> <li>• Server health monitoring (probes)</li> <li>• Stickiness</li> <li>• Firewall load balancing</li> <li>• TCL scripts</li> </ul>
<i>Cisco Application Control Engine Module Security Configuration Guide</i>	<p>Describes how to configure the following ACE security features:</p> <ul style="list-style-type: none"> <li>• Security access control lists (ACLs)</li> <li>• User authentication and accounting using a Terminal Access Controller Access Control System Plus (TACACS+), Remote Authentication Dial-In User Service (RADIUS), or Lightweight Directory Access Protocol (LDAP) server</li> <li>• Application protocol and HTTP deep packet inspection</li> <li>• TCP/IP normalization and termination parameters</li> <li>• Network Address Translation (NAT)</li> </ul>
<i>Cisco Application Control Engine Module SSL Configuration Guide</i>	<p>Describes how to configure the following Secure Sockets Layer (SSL) features on the ACE:</p> <ul style="list-style-type: none"> <li>• SSL certificates and keys</li> <li>• SSL initiation</li> <li>• SSL termination</li> <li>• End-to-end SSL</li> </ul>
<i>Cisco Application Control Engine Module System Message Guide</i>	<p>Describes how to configure system message logging on the ACE. This guide also lists and describes the system log (syslog) messages generated by the ACE.</p>
<i>Cisco Application Control Engine Module Command Reference</i>	<p>Provides an alphabetical list and descriptions of all CLI commands by mode, including syntax, options, and related commands.</p>
<i>Cisco CSM-to-ACE Conversion Tool User Guide</i>	<p>Describes how to use the CSM-to-ACE conversion tool to migrate Cisco Content Switching Module (CSM) running- or startup-configuration files to the ACE.</p>

Document Title	Description
<i>Cisco CSS-to-ACE Conversion Tool User Guide</i>	Describes how to use the CSS-to-ACE conversion tool to migrate Cisco Content Services Switches (CSS) running-configuration or startup-configuration files to the ACE.
<i>Cisco Application Control Engine (ACE) Troubleshooting Wiki</i>	Describes the procedures and methodology in wiki format to troubleshoot the most common problems that you may encounter during the operation of your ACE.
<i>Cisco Application Control Engine (ACE) Configuration Examples Wiki</i>	Provides examples of common configurations in wiki format for load balancing, security, SSL, routing and bridging, virtualization, and so on.

## Symbols and Conventions

This publication uses the following conventions:

Convention	Description
<b>boldface</b> font	Commands, command options, and keywords are in <b>boldface</b> . Bold text also indicates a command in a paragraph.
<i>italic</i> font	Arguments for which you supply values are in <i>italics</i> . Italic text also indicates the first occurrence of a new term, book title, emphasized text.
{ }	Encloses required arguments and keywords.
[ ]	Encloses optional arguments and keywords.
{x   y   z}	Required alternative keywords are grouped in braces and separated by vertical bars.
[x   y   z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
screen font	Terminal sessions and information the system displays are in <code>screen font</code> .
<b>boldface screen font</b>	Information you must enter in a command line is in <b>boldface screen font</b> .
<i>italic screen font</i>	Arguments for which you supply values are in <i>italic screen font</i> .
^	The symbol ^ represents the key labeled Control—for example, the key combination ^D in a screen display means hold down the Control key while you press the D key.
< >	Nonprinting characters, such as passwords are in angle brackets.

This document uses the following conventions:



### Note

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the publication.

**Caution**

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Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

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Warnings use the following conventions:

**Warning**

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Means ***possible physical harm or equipment damage***. A warning describes an action that could cause you physical harm or damage the equipment.

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For additional information about CLI syntax formatting, see the *Cisco Application Control Engine Module Command Reference*.

## Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

