



About the Documentation

This documentation describes the Cisco 4700 Series Application Control Engine (ACE) appliance (ACE Appliance Device Manager) and explains how to use it to manage your network.

This section provides the following topics about the documentation:

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Audience

This documentation is intended for experienced system and network administrators. Depending on the configuration required, readers should have specific knowledge in the following areas:

- Networking and data communications
- Network security
- Router configuration

Organization

This documentation contains the following sections:

- [Chapter 1, “Overview”](#) contains an summary of ACE features and the ACE Appliance Device Manager interface, terms, and getting started configuration information.
- [Chapter 2, “Configuring Virtual Contexts”](#) describes how to configure virtual contexts on the ACE appliance so that you can effectively and efficiently manage and allocate resources, users, and services.
- [Chapter 3, “Configuring Virtual Servers”](#) contains procedures for configuring virtual servers for load balancing on the ACE.

- [Chapter 4, “Configuring Real Servers and Server Farms”](#) provides an overview of server load balancing and procedures for configuring real servers and server farms for load balancing on the ACE.
- [Chapter 5, “Configuring Stickiness”](#) provides information about sticky behavior and procedures for configuring stickiness with the ANM.
- [Chapter 6, “Configuring Parameter Maps”](#) describes how to configure parameter maps so that the ACE can perform actions on incoming traffic based on certain criteria, such as protocol or connection attributes.
- [Chapter 7, “Configuring SSL”](#) describes the SSL configuration process and details the procedures for configuring SSL on the ACE appliance.
- [Chapter 8, “Configuring Network Access”](#) includes information about configuring virtual context VLAN interfaces, port channel interfaces, and gigabit Ethernet interfaces.
- [Chapter 9, “Configuring High Availability”](#) contains an overview of the redundancy feature and explains how to configure high available.
- [Chapter 10, “Configuring Traffic Policies”](#) describes how to configure class maps and policy maps to provide a global level of classification for filtering traffic received by or passing through the ACE appliance.
- [Chapter 11, “Configuring Application Acceleration and Optimization”](#) describes how to configure application acceleration and optimization options on the ACE appliance.
- [Chapter 12, “Monitoring Your Network”](#) allows you to monitor key areas of system usage.
- [Chapter 13, “Managing the ACE Appliance”](#) describes the administrative tools that manage the ACE appliance.
- [Chapter 14, “Using ACE Appliance Device Manager Troubleshooting Tools”](#) describes the administrator-only diagnostic tools to help troubleshoot ACE appliance management problems.
- [“Glossary”](#) defines some of the terms used in this document.

Related Documentation

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

Table 1 **ACE Appliance Documentation**

Document Title	Description
<i>Release Note for the Cisco 4700 Series Application Control Engine Appliance</i>	Provides information about operating considerations, caveats, and command-line interface (CLI) commands for the ACE.
<i>Cisco Application Control Engine Appliance Hardware Installation Guide</i>	Provides information for installing the ACE appliance.
<i>Regulatory Compliance and Safety Information for the Cisco Application Control Engine Appliance</i>	Regulatory compliance and safety information for the ACE appliance.

Table 1 **ACE Appliance Documentation (continued)**

Document Title	Description
<i>Cisco 4700 Series Application Control Engine Appliance Quick Start Guide</i>	Describes how to use the ACE appliance Device Manager and CLI to perform the initial setup and VIP load-balancing configuration tasks.
<i>Cisco 4700 Series Application Control Engine Appliance Administration Guide</i>	Describes how to perform the following administration tasks on the ACE: <ul style="list-style-type: none"> • Setting up the ACE appliance • Establishing remote access • Managing software licenses • Configuring class maps and policy maps • Managing the ACE software • Configuring SNMP • Configuring redundancy • Configuring the XML interface • Upgrading the ACE software
<i>Cisco 4700 Series Application Control Engine Appliance Virtualization Configuration Guide</i>	Describes how to operate your ACE in a single context or in multiple contexts.
<i>Cisco 4700 Series Application Control Engine Appliance Routing and Bridging Configuration Guide</i>	Describes how to configure the following routing and bridging tasks on the ACE: <ul style="list-style-type: none"> • Ethernet ports • VLAN interfaces • Routing • Bridging • Dynamic Host Configuration Protocol (DHCP).
<i>Cisco 4700 Series Application Control Engine Appliance Server Load-Balancing Configuration Guide</i>	Describes how to configure the following server load-balancing tasks on the ACE: <ul style="list-style-type: none"> • Real servers and server farms • Class maps and policy maps to load-balance traffic to real servers in server farms • Server health monitoring (probes) • Stickiness • Firewall load balancing • TCL scripts

Table 1 **ACE Appliance Documentation (continued)**

Document Title	Description
<i>Cisco 4700 Series Application Control Engine Appliance Security Configuration Guide</i>	Describes how to perform following ACE security configuration tasks: <ul style="list-style-type: none"> • Security access control lists (ACLs) • User authentication and accounting using a Terminal Access Controller Access Control System + (TACACS+), Remote Authentication Dial-In User Service (RADIUS), or Lightweight Directory Access Protocol (LDAP) server • Application protocol and HTTP deep packet inspection • TCP/IP normalization and termination parameters • Network address translation (NAT)
<i>Cisco 4700 Series Application Control Engine Appliance Application Acceleration and Optimization Configuration Guide</i>	Describes the configuration of the application acceleration and optimization features of the ACE appliance. It also provides an overview and description of these features.
<i>Cisco 4700 Series Application Control Engine Appliance SSL Configuration Guide</i>	Describes how to configure the following Secure Sockets Layer (SSL) tasks on the ACE: <ul style="list-style-type: none"> • SSL certificates and keys • SSL initiation • SSL termination • End-to-end SSL
<i>Cisco 4700 Series Application Control Engine Appliance System Message Guide</i>	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.
<i>Cisco 4700 Series Application Control Engine Appliance Command Reference</i>	Provides an alphabetical list and descriptions of all CLI commands by mode, including syntax, options, and related commands.
<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- or startup-configuration files to the ACE.

Conventions

This documentation uses the following conventions:

Item	Convention
Commands and keywords	boldface font
Variables for which you supply values	<i>italic font</i>

Item	Convention
Displayed session and system information	screen font
Information you enter	boldface screen font
Variables you enter	<i>italic screen font</i>
Menu items and button names	boldface font
Selecting a menu item in paragraphs	Option > Network Preferences
Selecting a menu item in tables	Option > Network Preferences

**Note**

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

**Caution**

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

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>

Open-Source Software Included in Cisco 4700 Series Application Control Engine (ACE) appliance

- Cisco 4700 Series Application Control Engine (ACE) appliance includes the following open-source software, which is covered by the Apache 2.0 license (<http://www.apache.org/>): Ant, Apache Axis, Avalon Logkit, Commons, Ehcache, Globus Toolkit, Jetty, Log4J, Oro, Tomcat.
- Cisco 4700 Series Application Control Engine (ACE) appliance includes the following open-source software, which is covered by The Legion of the Bouncy Castle (<http://www.bouncycastle.org/licence.html>) license: BouncyCastle.
- Cisco 4700 Series Application Control Engine (ACE) appliance includes the following open-source software, which is covered by The Castor license (<http://www.castor.org/license.html>): Castor-0.9.5.
- Cisco 4700 Series Application Control Engine (ACE) appliance includes the following open-source software, which is covered by the Common Public License Version 1.0 (<http://www.opensource.org/licenses/cpl1.0.php>): Wsd14j 1.3.

- Cisco 4700 Series Application Control Engine (ACE) appliance includes the following open-source software, which is covered by the GNU Lesser General Public License Version 2.1 (<http://www.gnu.org/licenses/lgpl.html>): c3p0-0.9.0.2.jar, Enterprise DT, Jasperreports 1.2, Jcommon 1.2, Jfreechart 1.0.1
- Cisco 4700 Series Application Control Engine (ACE) appliance includes the following open-source software, which is covered by the Mozilla Public License Version 1.1 (<http://www.mozilla.org/MPL/MPL-1.1.html>): Itext 1.4.

Open Source License Acknowledgements

The following acknowledgements pertain to this software license.

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This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

Original SSLeay License:

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The implementation was written so as to conform with Netscapes SSL.

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