



Preface

This preface describes the objectives and organization of this document and explains how to find additional information on related products and services. This preface contains the following sections:

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Objectives

This document describes Cisco CDA Visual Quality Experience (VQE) Application, Release 3.11, and explains how to set up and use the VQE software.

Document Revision History

[Table 1](#) records technical changes to this document. The table shows the document revision number for the change, the date of the change, and a brief summary of the change.

Table 1 **Document Revision History**

Date	Change Summary
May 2016	Document for Cisco VQE Release 3.11
March 2015	Document for Cisco VQE Release 3.10
February 2014	Document for Cisco VQE Release 3.8
July 2013	Document for Cisco VQE Release 3.7
August 2012	Document for Cisco VQE Release 3.6.3
June 2012	Document for Cisco VQE Release 3.6.2
April 2012	Document for Cisco VQE Release 3.6
October 2010	Document for Cisco VQE Release 3.5.5

Table 1 **Document Revision History**

Date	Change Summary
June 2010	RCC Troubleshooting section added
February 2010	Document for Cisco VQE Release 3.5
August 2009	Document for Cisco VQE Release 3.4
April 2009	Document for Cisco VQE Release 3.3
January 2009	Document for Cisco VQE Release 3.2
October 2008	Document for Cisco VQE Release 3.1
August 2008	Document for Cisco VQE Release 3.0
December 2007	Document for Cisco VQE Release 2.1
August 2007	Document for Cisco VQE Release 2.0

For information on the content and enhancements of each Cisco VQE Release, see the relevant VQE Release notes.

Document Organization

This publication is organized as follows:

Chapter	Title	Description
Chapter 1	Introduction to Cisco CDA Visual Quality Experience Application	Provides an introduction to the VQE Application.
Chapter 2	Initial VQE Configuration	Explains how to use the <code>vqe_cfgtool</code> command to perform the initial configuration tasks for the Cisco CDE that hosts the VQE-S ¹ and the CDE that hosts the VQE Tools.
Chapter 3	Using the VQE Channel Provisioning Tool	Describes how to use the Cisco VCPT ² .
Chapter 4	Using the VQE-S AMT	Describes how to use the Cisco VQE-S AMT ³ .
Chapter 5	Using the VCDS AMT	Describes how to use the Cisco VCDS AMT.
Chapter 6	Troubleshooting VQE Software Components	Describes how to identify and remedy problems related to the Cisco VQE Server, the VQE-S AMT, and the VCPT. The chapter also explains how to stop, start, and restart the VQE-S and VCDS ⁴ services.
Chapter 7	Configuring VQE Server and VQE Tools	Describes these VQE Configuration Management System software components: the VQE Configuration Tool, the Configuration Engine, and the VCDB Parser. The chapter also provides information on using the Configuration Tool, manually editing the VCDB file, and using the <code>vqe_cfgtool</code> command.
Appendix A	VQE, System and Network Parameters	Provides descriptions of the VQE-S Configuration Database parameters.
Appendix B	SNMP MIBs	Gives information about the VQE-specific and standard Linux MIBs on the Cisco CDE that hosts the VQE-S and on the CDE that hosts VQE Tools.

Chapter	Title	Description
Appendix C	VQE System Messages	Provides information on the Cisco VQE system messages.
Appendix D	Manual Initial VQE System Configuration	Explains how to perform manual initial configuration on the CDE that hosts VQE-S and on the CDE that hosts VQE Tools.
Appendix E	Configuring DHCP and DNS Servers for VCDS	Provides information on configuring the DHCP ⁵ and DNS ⁶ servers so that they work correctly with the VCDS or another RTSP server.
Appendix F	Using the vcds_send_file Command	Gives overview information on the network-based per-client configuration of the VQE-C ⁷ . Also, explains how to use the vcds_send_file command to send the client database file and group attribute file to one or more VCDSs.
Appendix G	Changing the Boot Sequence to Start from the CD/DVD Drive	Explains how to change the BIOS setting on the Cisco CDE server so that the server boots first from the CD/DVD Combo drive.
Appendix H	VQE Server Performance and Scaling Limits	Summarizes performance information of the Cisco VQE-Ss, and provides information on how to access the VQE-S capacity statistics.
Appendix I	VCPT Configuration Files	Describes the VCPT import and export configuration file formats, and provides examples of both formats.
Appendix J	Using IPMI on Cisco CDE 250	Gives supplementary information on IPMI GUI

1. VQE-S = VQE Server
2. VCPT = VQE Channel Provisioning Tool
3. AMT = Application Monitoring Tool.
4. VCDS = VQE Client Configuration Delivery Server.
5. DHCP = Dynamic Host Configuration Protocol.
6. DNS = Domain Name System.
7. VQE-C = VQE Client.

Related Documentation

The following is a list of documents and Cisco.com URLs for the Cisco CDE and the Cisco CDA Visual Quality Experience Application, Release 3.11:

- [Release Notes for Cisco CDA Visual Quality Experience Application, Release 3.11](#)
- [Cisco CDA Visual Quality Experience Application User Guide, Release 3.11 \(this document\)](#)
- [Cisco CDA Visual Quality Experience Client System Command Reference Guide](#)
- [Cisco CDA Visual Quality Experience Client System Configuration Guide](#)
- [Cisco Content Delivery Engine 205/220/250/420 Hardware Installation Guide](#)
- [Cisco Content Delivery Engine 110 Hardware Installation Guide](#)
- [Regulatory Compliance and Safety Information for the Cisco Content Delivery Engine 110](#)
- [Regulatory Compliance and Safety Information for the Cisco Content Delivery Engines](#)
- [Open Source Used in Visual Quality Experience 3.11](#)

The VQE Client (VQE-C) documentation is included in the VQE-C software TAR file. If you are a registered Cisco.com user, the file can be downloaded from the following location:

<http://www.cisco.com/kobayashi/sw-center/content-delivery/cda.shtml>

Table 2 lists the VQE Client documentation that is provided.

Table 2 VQE Client Documentation

VQE-C Document	Description
<i>VQE-C Release Notes</i>	Provides release-specific information on the VQE-C.
<i>VQE-C System Integration Reference</i>	Provides information on the VQE-C components, architecture, integration, and APIs. Also includes a VQE-C quick-start guide.
<i>Cisco CDA Visual Quality Experience Client System Configuration Guide</i> *	Explains certain factors to consider when configuring and deploying VQE-C. Also provides reference information on the VQE-C configuration file parameters.
<i>VQE-C CLI Command Reference</i>	Provides reference information on the VQE-C command-line interface.

* This guide is available only on Cisco.com. See the URL in the list preceding Table 2.

Document Conventions

This guide uses the following conventions for command syntax descriptions and textual emphasis:

Convention	Description
boldface font	Commands and keywords are in boldface .
<i>italic font</i>	Arguments for which you supply values are in <i>italics</i> .
[]	Elements in square brackets are optional.
{x y z}	Alternative, mutually exclusive, 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 <i>screen font</i> .
boldface screen font	Information you must enter is in boldface screen font .
<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 in contexts where italics are not available.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

**Note**

Means *reader take note*. Notes contain helpful suggestions or references to materials not contained in this publication.

**Tip**

Means the following information might help you solve a problem.

**Caution**

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

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at the following URL:

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

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