



# Release Notes for Cisco CDA Visual Quality Experience Client, Release 3.6.3

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## Introduction

Cisco CDA Visual Quality Experience Application (VQE) offers service providers a set of technologies and products associated with the delivery of IPTV video services. VQE is designed to improve the quality of IPTV services and subscribers' viewing experiences. VQE is part of a Cisco end-to-end solution that builds video awareness into the network infrastructure. For Release 3.6, VQE technology is intended for wireline operators who offer managed broadcast (multicast) IPTV services using xDSL.

Cisco Content Delivery Application (CDA) Visual Quality Experience Application includes these major software components:

- VQE Server (VQE-S)—Software that runs on a Linux-based Cisco Content Delivery Engine 110 (CDE110) appliance located in the intelligent edge of the service-provider's network.
- VQE Client (VQE-C)—Software embedded in the subscriber's CPE—typically a set-top box.

These release notes cover VQE-C software. Cisco's VQE-C open source code and associated documentation is offered to IPTV Set Top Box vendors for integration into their system. The code provides a number of advantages to vendors providing IPTV broadcast services including retransmission of dropped or corrupted packets, and RTP packet level statistics.



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#### What's New in Release 3.6:

- New configuration parameter, “stun\_optimization” to provide a way to disable an optimization for NAT devices, which may impede operation through non-NAT firewalls

The following features are supported in Cisco's VQE-C open source.

- RFC-3550 Real Time Protocol(RTP) compliance, including Real Time Control Protocol(RTCP)
- Error repair using selective RTP retransmission
- Error repair using Forward Error Correction (FEC)
- Hybrid error repair, Forward Error Correction followed by selective RTP retransmission.
- NAT support (NAT types including symmetric NAT are supported in this release)
- Middleware independent, channel configuration delivery infrastructure
- Rate limiting of repair requests.
- Rapid Channel Change (RCC)

CDA-VQE requires additional hardware and software components for operation of the systems.

- VQE Appliance: CDE110-1-036TXA-K9 or CDE110-1-036TXD-K9.
- VQE Server Licence: CDAVQES-ER-02000 (License upgrades available)
- VQE Channel Provisioning Tools: CDAVQES-VCPT

Please contact your Cisco Sales representative for pricing and availability.

## System Requirements

The VQE-C has been designed and provided with the intention of being integrated into the software embedded in the subscriber's CPE (typically a set-top box).

Please refer to the documentation that is provided in the TAR file containing the VQE-C software for instructions on integrating the VQE-C into the target system.

## Limitations and Restrictions

Cisco CDA Visual Quality Experience Application, technology is intended for wireline operators who offer managed broadcast (multicast) IPTV services using xDSL.

## Defect Fixes

This release includes the following defect fixes that are new to the 3.6.3 release:

### CSCub34630

Disable stun optimization on client

**Symptom:**

In environments where there is a firewall on the STB, the STUN requests may stop being sent if the VQE-C learns that it is not behind a NAT device.

**Conditions:**

This behavior will only occur when the `signaling_mode` is configured for NAT, and there is a NAT device between the VQE-C and VQE-S.

**Workaround (prior to this release):**

None.

## Open Caveats

None

## Important Notes

Please refer to the documentation that is provided in the TAR file containing the VQE-C software for instructions on how to integrate into the target platform.

## License Information

Please refer to the README file contained within the TAR file containing the VQE-C software for details. Additional questions should be made in writing to:

Cisco Legal Department  
300 E. Tasman Drive,  
San Jose, California 95134

## Related Documentation

Please refer to the documentation that is provided in the TAR file containing the VQE-C software; in addition the following is a list of documents for the Cisco CDA Visual Quality Experience Application, and the Cisco CDE110:

- Release Notes for Cisco CDA Visual Quality Experience Application, Release 3.6  
[http://www.cisco.com/en/US/partner/docs/video/cds/cda/vqe/3\\_6/release\\_notes/vqe\\_notes3\\_6.html](http://www.cisco.com/en/US/partner/docs/video/cds/cda/vqe/3_6/release_notes/vqe_notes3_6.html)
- Cisco CDA Visual Quality Experience Application User Guide, Release 3.6  
[http://www.cisco.com/en/US/partner/docs/video/cds/cda/vqe/3\\_6/user\\_guide/VQE\\_3\\_6.html](http://www.cisco.com/en/US/partner/docs/video/cds/cda/vqe/3_6/user_guide/VQE_3_6.html)
- Cisco CDA Visual Quality Experience Client System Configuration Guide (OL-19450-03)  
[http://www.cisco.com/en/US/docs/video/cds/cda/vqe/vqec/configuration/guide/vqec\\_cnfg.html](http://www.cisco.com/en/US/docs/video/cds/cda/vqe/vqec/configuration/guide/vqec_cnfg.html)
- Cisco Content Delivery Engine 110 Hardware Installation Guide (OL-14114-03)  
[http://www.cisco.com/en/US/docs/video/cds/cde/cde110/installation/guide/cde110\\_install.html](http://www.cisco.com/en/US/docs/video/cds/cde/cde110/installation/guide/cde110_install.html)

- *Regulatory Compliance and Safety Information for the Cisco Content Delivery Engine 110* (78-18228-02)

[http://www.cisco.com/en/US/docs/video/cds/cde/regulatory/compliance/cde110\\_rcsi.pdf](http://www.cisco.com/en/US/docs/video/cds/cde/regulatory/compliance/cde110_rcsi.pdf)

## 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>

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