



# QoS: Broadband Aggregation Enhancements—Phase 1: Start Here

---

**First Published: February 28, 2006**

The QoS: Broadband Aggregation Enhancements—Phase 1 feature enhances the functionality of quality of service (QoS) for broadband access and broadband aggregation.

The QoS: Broadband Aggregation Enhancements—Phase 1 feature consists of the following features related to QoS:

- [Per-Session QoS](#)

Per-Session QoS allows you to configure QoS features (such as traffic classification, shaping, queuing, and policing) on a per-session basis.

- [RADIUS Accounting for QoS](#)

With the RADIUS Accounting for QoS feature, policy map information and traffic class information for the session are now included in the accounting statistics reported.

## History for the QoS: Broadband Aggregation Enhancements—Phase 1 Feature

| Release    | Modification                 |
|------------|------------------------------|
| 12.2(28)SB | This feature was introduced. |

## Finding Support Information for Platforms and Cisco IOS Software Images

Use Cisco Feature Navigator to find information about platform support and Cisco IOS software image support. Access Cisco Feature Navigator at <http://www.cisco.com/go/fn>. You must have an account on Cisco.com. If you do not have an account or have forgotten your username or password, click **Cancel** at the login dialog box and follow the instructions that appear.

# Additional References

The following sections provide references related to QoS: Broadband Aggregation Enhancement—Phase 1.

## Related Documents

| Related Topic                                                                                                              | Document Title                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| QoS commands: complete command syntax, command modes, command history, defaults, usage guidelines, and examples            | <a href="#">Cisco IOS Quality of Service Solutions Command Reference</a>                                           |
| QoS features such as traffic classification, traffic policing, and traffic marking                                         | <a href="#">Cisco IOS Quality of Service Solutions Configuration Guide, Release 12.4</a>                           |
| Class maps, policy maps, hierarchical policy maps, and Modular Quality of Service (QoS) Command-Line Interface (CLI) (MQC) | <a href="#">Cisco IOS Quality of Service Solutions Configuration Guide, Release 12.4</a>                           |
| Broadband access                                                                                                           | “Broadband Access” section of the <a href="#">Cisco IOS Wide-Area Networking Configuration Guide, Release 12.4</a> |
| Broadband aggregation for the Cisco 1000 series router                                                                     | <a href="#">Cisco 10000 Series Broadband Aggregation and Leased-Line Configuration Guide, Release 12.3XI</a>       |
| RADIUS servers and authentication, authorization, and accounting (AAA)                                                     | <a href="#">Cisco IOS Security Configuration Guide, Release 12.4</a>                                               |
| Classification, policing, and marking on Layer 2 Tunneling Protocol (L2TP) Access Concentrator (LAC)                       | <a href="#">QoS: Classification, Policing, and Marking on LAC</a> feature module, Cisco IOS Release 12.3(8)T       |

## Standards

| Standard | Title |
|----------|-------|
| None     | —     |

## MIBs

| MIB  | MIBs Link                                                                                                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| None | To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL:<br><br><a href="http://www.cisco.com/go/mibs">http://www.cisco.com/go/mibs</a> |

## RFCs

| RFC  | Title |
|------|-------|
| None | —     |

## Technical Assistance

| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Link                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <p>The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.</p> <p>To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.</p> <p>Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.</p> | <a href="http://www.cisco.com/techsupport">http://www.cisco.com/techsupport</a> |

CCVP, the Cisco logo, and Welcome to the Human Network are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn is a service mark of Cisco Systems, Inc.; and Access Registrar, Aironet, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, LightStream, Linksys, MeetingPlace, MGX, Networkers, Networking Academy, Network Registrar, PIX, ProConnect, ScriptShare, SMARTnet, StackWise, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a

Any Internet Protocol (IP) addresses used in this document are not intended to be actual addresses. Any examples, command display output, and figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses in illustrative content is unintentional and coincidental.

© 2006 Cisco Systems, Inc. All rights reserved.

