



Cisco Unified Border Element with Gatekeeper Features Roadmap

This roadmap lists the features documented in the Cisco Unified Border Element with Gatekeeper Configuration Guide (previously known as the *Cisco Multiservice IP-to-IP Gateway with Gatekeeper Application Guide*) and maps them to the modules in which they appear.

Roadmap History

This roadmap was first published on June 19, 2006, and last updated on July 11, 2008.

Cisco Unified Border Element Feature and Release Support

[Table 1](#) lists Cisco Unified Border Element with Gatekeeper feature support for the following Cisco IOS software release trains:

- Cisco IOS Releases 12.2T, 12.3, 12.3T, 12.4, and 12.4T

Only features that were introduced or modified in Cisco IOS Release Cisco IOS Releases 12.2(13)T or a later release appear in the table. Not all features may be supported in your Cisco IOS software release.

Use Cisco Feature Navigator to find information about platform support and software image support. Cisco Feature Navigator enables you to determine which Cisco IOS and Catalyst OS software images support a specific software release, feature set, or platform. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.



Note

[Table 1](#) lists only the Cisco IOS software release that introduced support for a given feature in a given Cisco IOS software release train. Unless noted otherwise, subsequent releases of that Cisco IOS software release train also support that feature.



Table 1 *Supported Cisco Multiservice Cisco Unified Border Element with Gatekeeper Configuration Guide Features*

Release	Feature Name	Feature Description	Where Documented
Cisco IOS Releases 12.2T, 12.3, 12.3T, 12.4, and 12.4T			
12.4(20)T	Extended InterZone Clear Token	Provides additional security to the gatekeeper by ensuring that ARQ and RRQ are not spoofed.	Configuring Extended InterZone Clear Token Support section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.
	Product Authorization Key (PAK)	Requires users to register products and activate a Product Authorization Key (PAK) before starting the configuration process. Note Register Products and activate your PAK at the following URL http://www.cisco.com/go/license	—
	Enhanced ARQ and RRQ Security for Gatekeeper Registrations	Provides additional security checks upon receiving the registration request (RRQ) from an endpoint. Introduces the following features: <ul style="list-style-type: none"> Enhanced ARQ and RRQ Security for Gatekeeper Registrations Enhanced Security checks at GK for ARQ/DRQ/BRQ/URQ/IIR 	Enhanced ARQ and RRQ Security for Gatekeeper Registrations section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.
12.4(15)XZ	Product Authorization Key (PAK)	Requires users to register products and activate a Product Authorization Key (PAK) before starting the configuration process. Note Register Products and activate your PAK at the following URL http://www.cisco.com/go/license	—
	Extended InterZone Clear Token	Provides additional security to the gatekeeper by ensuring that ARQ and RRQ are not spoofed.	Configuring Extended InterZone Clear Token Support section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.
12.4(15)XY	—	The Cisco Multiservice IP-to-IP Gateway with Gatekeeper Application Guide was renamed Cisco Unified Border Element with Gatekeeper Configuration guide to match the marketed product name change.	—
	Enhanced ARQ and RRQ Security for Gatekeeper Registrations	Provides additional security checks upon receiving the registration request (RRQ) from an endpoint. Introduces the following features: <ul style="list-style-type: none"> Enhanced ARQ and RRQ Security for Gatekeeper Registrations Enhanced Security checks at GK for ARQ/DRQ/BRQ/URQ/IIR 	Enhanced ARQ and RRQ Security for Gatekeeper Registrations section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.

Table 1 *Supported Cisco Multiservice Cisco Unified Border Element with Gatekeeper Configuration Guide Features (continued)*

Release	Feature Name	Feature Description	Where Documented
12.4(9)T	—	Content found in the Cisco IOS Multiservice IP-to-IP Gateway Application Guide was divided into two books; Cisco Multiservice IP-to-IP Gateway with Gatekeeper Application Guide and the Cisco Multiservice IP-to-IP Gateway with Gatekeeper Application Guide.	—
12.4(6)T	Unique Calling Party Information with Alternate Endpoints	Enables alternate endpoint capabilities of the Cisco IOS H.323 gatekeeper and voice gateway to associate a unique calling party number automatic number identification (ANI) with each alternate endpoint using the GKTMP.	“Unique Calling Party Information with Alternate Endpoints” section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.
	In-Service Updates to Gatekeeper Zone Prefix Configuration	Increases the availability of H.323 VoIP networks by allowing changes to a gatekeeper zone prefix while the gatekeeper is running and managing active E.164 registrations.	“In-Service Updates to Gatekeeper Zone Prefix Configuration” section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.
12.4(4)T	Dynamic Control of Gatekeeper Sequential LRQ Processing Through Gatekeeper Transaction Message Protocol	Enables a control field in the GKTMP that allows an external application to halt normal alternate routing procedures at the gatekeeper, to reduce call setup times and reject calls quickly during peak traffic periods in the wholesale provider’s network.	“Dynamic Control of Gatekeeper Sequential LRQ Processing Through GKTMP” section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.
	RAS retry and timer	Allows service providers the ability to control transmit time margins on Cisco gatekeepers by changing RAS message timeout LRQ value and message retry counter values.	“Configuring RAS Retry and Timer” section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.
	Real-Time Call Type Reporting Through Gatekeeper Transaction Message Protocol (GKTMP)	Enables Cisco H.323 VoIP gateways to report the call type (voice/fax/modem) to a Cisco IOS gatekeeper at the end of each call.	“Configuring Real-Time Call Type Reporting Through GKTMP” section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.

Table 1 *Supported Cisco Multiservice Cisco Unified Border Element with Gatekeeper Configuration Guide Features (continued)*

Release	Feature Name	Feature Description	Where Documented
	Sequential LRQ timer	Defines the time window during which the gatekeeper collects responses from the gateway before resending a RAS message to a gatekeeper, and the number of times to resend the RAS message after the timeout period expires.	“Configuring the Sequential LRQ Timer” section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.
	H.323 Standard Based Hopcount Field in LRQ	Support for H.225 version 4 standard hopCount field in LocationRequest RAS message.	“H.323 Standard-Based Hopcount Field in LRQ” section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.
	Identify Alternate Endpoint Call Attempts in RADIUS Call Accounting Records	Controls alternate endpoint hunting based on call disconnect cause codes.	“Configuring Alternate Endpoint Call Attempts in RADIUS Call Accounting Records” section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.
	No Retry on User Busy in an Cisco Unified Border Element	Changes the default behavior of the gateway to not retry alternate endpoints when the release complete reason is user busy.	“Configuring Alternate Endpoint Call Attempts in RADIUS Call Accounting Records” section of the “Configuring Cisco Unified Border Element with Gatekeeper” chapter of this guide.

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