

Cisco Unified Border Element Feature Roadmap, Cisco IOS XE Releases

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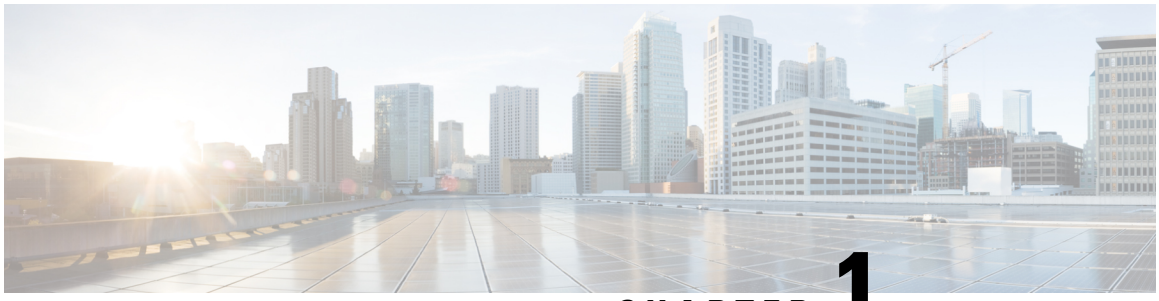


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CHAPTER 1

Read Me First

Important Information

Note For CUBE feature support information in Cisco IOS XE Bengaluru 17.6.1a and later releases, see Cisco Unified Border Element IOS-XE Configuration Guide.

Note The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on RFP documentation, or language that is used by a referenced third-party product.

Feature Information

Use Cisco Feature Navigator to find information about feature support, platform support, and Cisco software image support. An account on Cisco.com is not required.

Related References

- Cisco IOS Command References, All Releases

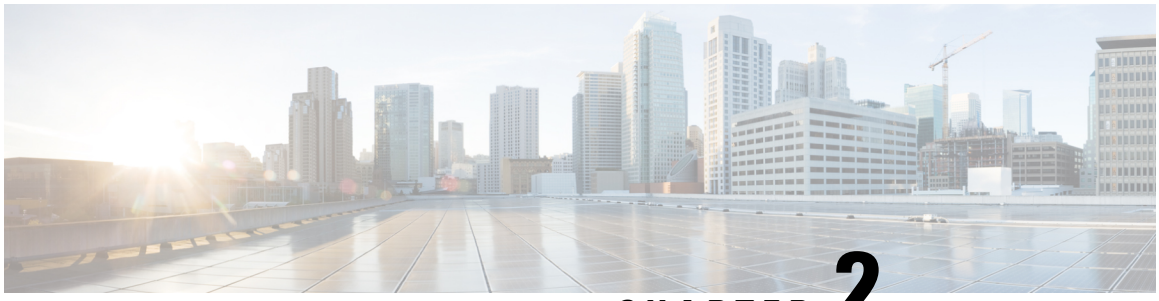
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Short Description

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CHAPTER 2

Cisco Unified Border Element - Feature Roadmap

This roadmap lists the features introduced in Cisco Unified Border Element (CUBE) and maps them to the chapters in which they appear.

Note For CUBE feature support information for Cisco IOS XE Bengaluru 17.6.1a and later releases, see Cisco Unified Border Element IOS-XE Configuration Guide.

Note Do not use Cisco Unified Border Element (CUBE) on Cisco IOS XE Gibraltar Release 16.11.1a version for Media Forking and call flows that include Multicast Music On Hold (MMOH).

Note Use Cisco Feature Navigator to find information about platform support and Cisco IOS XE software image support. To access Cisco Feature Navigator, go to http://www.cisco.com/go/cfn. An account on Cisco.com is not required.

Important **Preview Features Disclaimer:** In Cisco IOS XE 17.16.1a release, the Secure Communications Interoperability Protocol (SCIP) feature is available in 'preview' mode as it includes limited functionality or incomplete software dependencies. Cisco reserves the right to disable preview features at any time without notice. Cisco Technical Support provides reasonable effort support for features in preview mode. There is no Service Level Objective (SLO) in response times for features in preview mode; response times may be slow.

Table 1: Cisco Unified Border Element Configuration Guide Feature Support

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
CUBE support on C8235-E-G2, C8235-G2, C8231-G2, C8231-E-G2, and C8355-G2 secure routers	New and Changed Information Supported Platforms	Cisco IOS XE 26.2.1	15.0

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
Automatic conversion of password formats into secure types	Voice Command Reference Guide	Cisco IOS XE 26.2.1	15.0
Security warnings for non-secure protocols	Voice Command Reference Guide	Cisco IOS XE 26.2.1	15.0
vCUBE qualification for Catalyst 8000V on Nutanix AHV	Virtual CUBE (vCUBE)	Cisco IOS XE 26.1.1	15.0
Advanced TLS security compliance and control	New and Changed Information SIP TLS Support	Cisco IOS XE 26.1.1	15.0
Dual certificate support for SIP trunk client and server functionality	New and Changed Information SIP TLS Support	Cisco IOS XE 26.1.1	15.0
CUBE support on C8375-E-G2 secure router with vDSP enabled	New and Changed Information Supported Platforms	Cisco IOS XE 17.18.2	15.0
Directional attribute compliance for SIPREC responses	SIP Forking Media Proxy and Recording	Cisco IOS XE 17.18.2	15.0
Security warnings for usage of legacy TLS and associated weaker ciphers	SIP TLS Support	Cisco IOS XE 17.18.2	15.0
Enhanced support for serviceability in SIP recording	SIP Forking Dial-peer Based Recording Media Proxy and Recording	Cisco IOS XE 17.18.1a	15.0
Third-Party GUID capture for correlation between call transfers and SIP-based recording	Third-Party GUID Capture	Cisco IOS XE 17.18.1a	15.0
CUBE reports smart licensing flex subscription entitlement tag	New and Changed Information Smart Licensing	Cisco IOS XE 17.18.1a	15.0
Secure Communications Interoperability Protocol (SCIP) support in CUBE (This feature is available in 'preview' mode)	New and Changed Information Codec Support and Restrictions	Cisco IOS XE 17.16.1a	14.11

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
Secure SIP with TLS version 1.3 Support (recommended release)	SIP TLS Support	Cisco IOS XE 17.15.1a	14.10
Secure SIP with TLS version 1.3 Support	SIP TLS Support	Cisco IOS XE 17.14.1a	14.9
NAT Traversal using RTP Keepalive	NAT Traversal using RTP Keepalive	Cisco IOS XE 17.13.1a Cisco IOS XE Dublin 17.12.2	14.8
IPv6 Flows in High Availability	High Availability on Cisco 4000 Integrated Services Routers and Cisco Catalyst 8000 Series Edge Platforms High Availability on Cisco C8000V Series Cloud Services Routers High Availability on Cisco ASR 1000 and Cisco Catalyst 8000 Series Routers	Cisco IOS XE Dublin 17.12.1a	14.7
Cover Buffer Enhancements for VoIP Trace	VoIP Trace	Cisco IOS XE Dublin 17.12.1a	14.7
CCE Survivability sRTP flows for Media Inject and CCB	Advanced Features for Cisco Contact Center	Cisco IOS XE Cupertino 17.9.1a	14.6
Options Ping for DNS SRV Hosts	SIP Trunk Monitoring	Cisco IOS XE Cupertino 17.9.1a	14.6
Load Balancing for DNS SRV Hosts	SIP Trunk Monitoring	Cisco IOS XE Cupertino 17.9.1a	14.6
SFTP CDR transfer	CDR Accounting Configure File Accounting gw-accounting command	Cisco IOS XE Cupertino 17.9.1a	14.6
Configurable SIP listen port per trunk (tenant)	SIP TLS Support	Cisco IOS XE Cupertino 17.8.1a	14.5
Configurable TLS policy per trunk (tenant)	SIP TLS Support	Cisco IOS XE Cupertino 17.8.1a	14.5
mTLS Client CN-SAN validation	SIP TLS Support	Cisco IOS XE Cupertino 17.8.1a	14.5
Virtual CUBE in Microsoft Azure	Supported Platforms	Cisco IOS XE Bengaluru 17.6.3a	14.4

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
Opus Transcoding	Codec Support and Restrictions Transcoding Configuration	Cisco IOS XE Bengaluru 17.6.1a	14.4
Support for Catalyst Edge 8200L-1N-4T Platform	Supported Platforms	Cisco IOS XE Bengaluru 17.5.1a	14.3
Secure Forking of Nonsecure Calls through Media Proxy	Media Proxy and Recording	Cisco IOS XE Bengaluru 17.5.1a	14.3
Clear RTP Ports	VoIP Trace	Cisco IOS XE Bengaluru 17.4.1a	14.2
Hunt Stop for Server Groups	Server Groups	Cisco IOS XE Bengaluru 17.4.1a	14.2
Cisco Catalyst 8000V Edge Software (Catalyst 8000V) Platforms	Supported Platforms	Cisco IOS XE Bengaluru 17.4.1a	14.2
Support for Cisco 8200 Catalyst Edge Series Platforms	Supported Platforms	Cisco IOS XE Bengaluru 17.4.1a	14.2
Virtual CUBE in AWS	Supported Platforms	Cisco IOS XE Bengaluru 17.4.1a Cisco IOS XE Gibraltar 16.12.4a	14.2 12.7
Support for VoIP Trace Serviceability Framework	VoIP Trace	Cisco IOS XE Bengaluru 17.4.1a, Cisco IOS XE Amsterdam 17.3.2	14.2 14.1
Smart Licensing Using Policy	Smart Licensing	Cisco IOS XE Bengaluru 17.4.1a, Cisco IOS XE Amsterdam 17.3.2	14.2 14.1
Support for Cisco 8200L Catalyst Edge Series Platforms	Supported Platforms	Cisco IOS XE Bengaluru 17.5.1a	14.3
Support for Cisco 8300 Catalyst Edge Series Platforms	Supported Platforms	Cisco IOS XE Amsterdam 17.3.2	14.1
Support for Cisco ASR1006-X Routers (RP3, ESP100X)	Supported Platforms	Cisco IOS XE Amsterdam 17.3.2	14.1
Media Proxy Multiforking using SIPREC	Media Proxy and Recording	Cisco IOS XE Amsterdam 17.3.1a	14.0
TLS Server Name Indication (SNI) - RFC6066	SIP TLS Support	Cisco IOS XE Amsterdam 17.3.1a	14.0

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
OPUS Codec Negotiation	Codec Support and Restrictions	Cisco IOS XE Amsterdam 17.3.1a	14.0
Dial Peer Binding with Live Traffic	SIP Binding	Cisco IOS XE Amsterdam 17.3.1a	14.0
Up to 100 VRF Instances	Support for Multi VRF	Cisco IOS XE Amsterdam 17.3.1a	14.0
Support for Cisco ASR1006-X Routers (RP3, ESP100)	Supported Platforms	Cisco IOS XE Amsterdam 17.3.1a	14.0
Consumption of INVITE with Replaces	Mid-call Signaling	Cisco IOS XE Amsterdam 17.3.1a	14.0
Support for Cisco Unified Border Element on Cisco ISR 4461	Supported Platforms	Cisco IOS XE Amsterdam 17.2.1r	12.8.0
Support for Smart Licensing based on dynamic call counting	Smart Licensing	Cisco IOS XE Amsterdam 17.2.1r	12.8.0
Support for fax detection for SIP calls and transfer with Cisco IOS XE platforms	Fax Detection	Cisco IOS XE Amsterdam 17.2.1r	12.8.0
Support for media flow-around using Multi-VRF	Support for Multi VRF	Cisco IOS XE Gibraltar 16.12.2	12.7.0
show voip rtp connections command output was updated to show SRTP Rollover Count (ROC) information based on Remote IP address and Port	show voip rtp connections	Cisco IOS XE Gibraltar 16.12.2	12.7.0
Support for Cisco 1000 Series Integrated Services Routers (ISR)	Supported Platforms	Cisco IOS XE Gibraltar 16.12.1a	12.7.0
Cisco Specific License Reservation (SLR)	Smart Licensing CSCvw00301—For Cisco 4000 Series Integrated Services Routers in Specific License Reservation (SLR) mode, license status is displayed as AUTHORIZED though more license than reserved is consumed. CSCvq04430—For Cisco 4000 Series Integrated Services Routers in Specific License Reservation (SLR) mode, license status switches from AUTHORIZED to NOT IN USE and displays license count as zero, after router reload.	Cisco IOS XE Gibraltar 16.12.1a	12.7.0

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
The output of following command were enhanced to display SRTP ROC information: • `show voip fpi calls` • `show voip fpi stats` • `show voip rtp connections`	show voice trace through shutdown (voice-port)	Cisco IOS XE Gibraltar 16.12.1a	12.7.0
Cisco Smart Licensing enhancements for CUBE	Smart Licensing	Cisco IOS XE Gibraltar Release 16.11.1a	12.6.0
Server identity validation through Common Name and Subject Alternate Name (SAN)	SIP TLS Support	Cisco IOS XE Gibraltar Release 16.11.1a	12.6.0
Security Readiness Criteria (SRC) Closure for CUBE	• SRTP-SRTP Interworking • Network based Recording • SIP Trunking • authentication (SIP UA) • credentials (SIP UA) • stun flowdata shared-secret	Cisco IOS XE Gibraltar Release 16.11.1a	12.6.0
CUBE Media Proxy	Media Proxy and Recording	Cisco IOS XE Gibraltar 16.10.1a	12.5.0
Elliptical Curve Ciphers	SIP TLS Support	Cisco IOS XE Gibraltar 16.10.1a	12.5.0
Common Criteria (CC) and The Federal Information Standards (FIPS) Certification.	Security Compliance	Cisco IOS XE Fuji 16.9.1	12.1
CUBE Licensing	Cisco Unified Border Element Data Sheet	Cisco IOS XE Fuji 16.9.1	12.1
Change in the default SIP TLS Versions support on CUBE	SIP TLS Support	Cisco IOS XE Fuji 16.9.1	12.1
Support for DTMF interworking between sip-info and rtp-nte for sip-sip calls on DTMF Relay	DTMF Relay	Cisco IOS XE Everest 16.6.1	12.0
CUBE support for SRTP-SRTP and SRTP-RTP Interworking with NGE cipher suites (AES_AEAD_128_GCM and AES_AEAD_256_GCM)	SRTP-SRTP Interworking	Cisco IOS XE Everest 16.5.1b	11.6

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
Enhancement to support up to 54 VRF instances	Support for Multi VRF	Cisco IOS XE Denali 16.3.1 15.6(3)M	11.5.2
Support for Inbound Dial-peer Matching using VRF-ID	Support for Multi VRF	Cisco IOS XE Denali 16.3.1 15.6(3)M	11.5.2
Consumption of Forked 18x responses with SDP for CUBE	Forked 18x Responses	Cisco IOS XE Denali 16.3.1 15.6(3)M	11.5.2
Support for Voice Quality Monitoring	Monitor Voice Quality	Cisco IOS XE Denali 16.3.1	11.5.2
Configuring Multi-Tenants on SIP Trunks	Configure Multiple Trunks Using Tenants	Cisco IOS XE Denali 16.3.1 15.6(2)T	11.5.2 11.5.1
Support for Multi-VRF	Support for Multi VRF	Cisco IOS XE Denali 16.3.1 15.6(2)T	11.5.2 11.5.1
CVP Survivability TCL support with High Availability	CVP Survivability TCL support with High Availability	Cisco IOS XE Denali 16.3.1 15.6(2)T	11.5.2 11.5.1
Support for video suppression	Video Suppression	Cisco IOS XE Denali 16.3.1 15.6(2)T	11.5.2 11.5.1
Support for Session ID	Session Identifier	Cisco IOS XE Denali 16.3.1 15.6(2)T	11.5.2 11.5.1
All Cisco Unified Border Element features supported up to and including Cisco IOS XE Release 3.17S are supported on Cisco IOS XE Denali 16.3 Release.	Read Me First	Cisco IOS XE Denali 16.3.1	11.5.2
Variable length checkpoint enhancements for HA in CUBE	High Availability	Cisco IOS XE Release 3.17S 15.6(1)T	11.5.0
Survivability TCL concurrent operation with Cisco UC GW Services API based Media Forking	Network based Recording	Cisco IOS XE Release 3.17S 15.6(1)T	11.5.0
SIP-REC standard based call/media recording support on CUBE	SIP Forking	Cisco IOS XE Release 3.17S 15.6(1)T	11.5.0

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
TLS 1.2 support, 256_GCM Cipher suits support and HTTPS for Cisco UC GW Services API interface support on CUBE	SIP TLS Support	Cisco IOS XE Release 3.17S 15.6(1)T	11.5.0
Additional features for multiple-m-line support on CUBE	SIP Profiles Configuration	Cisco IOS XE Release 3.17S 15.6(1)T	11.5.0
Support for Early Dialog Update Block	Early Dialog UPDATE Block	Cisco IOS XE Release 3.16S 15.5(3)M	11.1.0
Support for Mid-call Signaling Block	Mid-call Signaling	Cisco IOS XE Release 3.16S 15.5(3)M	11.1.0
Support header pass-through for additional SIP message types	Pass Unsupported SIP Headers Support for PAID, PPID, Privacy, PCPID, and PAURI Headers	Cisco IOS XE Release 3.16S 15.5(3)M	11.1.0
CUBE support on C8000v platform	Supported Platforms	Cisco IOS XE Release 3.15S	11
ICE infrastructure and ICE-lite support	ICE-Lite Support	Cisco IOS XE Release 3.15S 15.5(3)M	11 11.1.0
Support for tagging rules in a SIP Profile configuration	SIP Profiles Configuration	Cisco IOS XE Release 3.15S 15.5(2)T	11
Support to include inbound call ID,outbound call ID, and Call Session Identification to ENUM DNS query	ENUM Enhancement per Kaplan Draft RFC	Cisco IOS XE Release 3.15S 15.5(2)T	11
Support for additional call flows in Call Progress Analysis	Call Progress Analysis	Cisco IOS XE Release 3.15S 15.5(2)T	11
Support for REFER and BYE/Also after software switch-over	Stateful Switchover Between Redundancy Paired Intra or Inter-box Devices	Cisco IOS XE Release 3.15S 15.5(2)T	11
DSP HA Support on CUBE	DSP High Availability Support	Cisco IOS XE Release 3.15S 15.5(2)T	11
Support for Non-Standard SIP Headers	SIP Profiles Configuration	Cisco IOS XE Release 3.15S 15.5(2)T	11

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
Ability to sort dial-peers in running-configuration	show running-config dial-peer	Cisco IOS XE Release 3.15S 15.5(2)T	11
Call Escalation from Voice to Video	Call Escalation from Voice to Video	Cisco IOS XE Release 3.8S	9.0
Cisco UBE Serviceability	Serviceability	Cisco IOS XE Release 3.8S	9.0
Domain Based Routing Support on the Cisco UBE	Domain-Based Routing	Cisco IOS XE Release 3.8S	9.0
Multicast Music-on-Hold support on Cisco UBE	Multicast Music-on-Hold (MMOH)	Cisco IOS XE Release 3.8S	9.0
Network-Based Recording using Cisco UBE	Network based Recording	Cisco IOS XE Release 3.8S	9.0
Limiting the rate of incoming SIP calls processing	Cisco IOS Voice Command Reference	Cisco IOS XE Release 3.8S	9.0
Negotiation of an Audio Codec from a list of Codecs	Codec Preference Lists	Cisco IOS XE Release 3.8S Cisco IOS XE Release 3.7S 15.1(2)T	1.4 9.0
Bandwidth-based Call Admission Control	Call Admission Control	Cisco IOS XE Release 3.7S	1.4
Dynamic REFER Handling on the Cisco UBE	Dynamic REFER Handling	Cisco IOS XE Release 3.7S	1.4
Multiple Destination pattern support on Voice Dial Peer	Multiple Pattern support on a Voice Dial Peer	Cisco IOS XE Release 3.7S	1.4
SIP Registration Proxy on Cisco UBE	Configure SIP Registration	Cisco IOS XE Release 3.7S	1.4
SRTP-RTP interworking	SRTP-RTP Internetworking	Cisco IOS XE Release 3.7S	1.4
SIP Trunk Registration	Basic SIP Configuration	Cisco IOS XE Release 3.7S	1.4
Conditional Header Manipulation of SIP Headers	Copy SIP Headers	Cisco IOS XE Release 3.6S	1.4
Inbound Dial-peer to match the URI on SIP calls	Matching Inbound Dial Peers by URI of Incoming SIP Calls	Cisco IOS XE Release 3.6S Cisco IOS XE Release 3.1S	1.2 1.4
Noise Reduction (NR)	Noise Reduction	Cisco IOS XE Release 3.6S	1.4
PCM Capture for ASP and NR	Pulse Code Modulation (PCM) Audio Capture	Cisco IOS XE Release 3.6S	1.4

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
SIP UPDATE Message per RFC 3311	SIP UPDATE Message per RFC 3311	Cisco IOS XE Release 3.6S	1.4
Voice Media Quality MIB	Monitor Voice Quality	Cisco IOS XE Release 3.6S	1.4
Cisco Unified Communications Trusted Firewall Control - Version 3	Cisco Unified Communication Trusted Firewall Control	Cisco IOS XE Release 3.6S	1.4
Acoustic Shock Protection (ASP)	Acoustic Shock Protection	Cisco IOS XE Release 3.6S	1.4
Mid-call Re-INVITE/UPDATE consumption	Mid-call Signaling	Cisco IOS XE Release 3.6S	1.4
Call Routing logic on Cisco UBE using the History-info Header	Configure Call Routing Logic on Cisco UBE using the History-info Header	Cisco IOS XE Release 3.3S	1.4
Cisco Resource Reservation Protocol Agent	Cisco Resource Reservation Protocol Agent	Cisco IOS XE Release 3.3S	1.4
Cisco Unified Communication Trusted Firewall Control	Cisco Unified Communication Trusted Firewall Control	Cisco IOS XE Release 3.3S	1.4
Cisco Unified Communication Trusted Firewall Control-Version 2	Cisco Unified Communication Trusted Firewall Control	Cisco IOS XE Release 3.3S	1.4
Hiding the Internal Topology Information Embedded Within the History-info Header at the Cisco UBE	Hiding the Internal Topology Information Embedded Within the History-info Header at the Cisco UBE	Cisco IOS XE Release 3.3S	1.4
Reporting End-of-Call Statistics in SIP BYE Message	Monitor Voice Quality	Cisco IOS XE Release 3.3S	1.4
RTP Media Loopback for SIP Calls	Configure RTP Media Loopback for SIP calls	Cisco IOS XE Release 3.3S 15.1(4)M	1.4
Support inbound dial-peer match based on remote IP address on SIP trunks	Matching Inbound Dial Peers by URI of Incoming SIP Calls	15.1(2)T	8.5
Show Commands to display Cisco UBE related information	Show commands	Cisco IOS XE Release 3.3S	1.4
SIP-to-SIP Basic Functionality for Session Border Controller	SIP-to-SIP Basic Functionality for Session Border Controller	Cisco IOS XE Release 3.3S	1.2 1.4
VoIP for IPv6	VoIP for IPv6	Cisco IOS XE Release 3.3S	1.4

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
VRF aware DNS for SIP calls	Support for Multi VRF	Cisco IOS XE Release 3.3S	1.4
Cisco Resource Reservation Protocol Agent	Cisco Resource Reservation Protocol Agent	Cisco IOS XE Release 3.3S	1.4
Stateful Switchover between Redundancy paired devices	Stateful Switchover between Redundancy Paired Intra or Inter-box devices	Cisco IOS XE Release 3.2S	1.4
DSP based functionality on the Cisco UBE (Enterprise) including Transcoding and Transrating	Transcoding and Transrating configuration	Cisco IOS XE Release 3.2S	1.4
Configurable Pass-through of SIP INVITE parameters	Pass Unsupported SIP Headers	Cisco IOS XE Release 3.1S 15.0(1)M	1.2
Configure an Error Response Code upon an Out-of-Dialog OPTIONS Ping Failure	Configure an Error Response Code upon an Out-of-Dialog OPTIONS Ping Failure	Cisco IOS XE Release 3.1S 15.1(1)T	1.2
Configure SIP Message, Timer, and Response Features	SIP Session Timer Support	Cisco IOS XE Release 3.1S	1.2
Dynamic Payload Type Interworking for DTMF and Codec Packets for SIP-to-SIP Calls	Payload Type Interoperability	Cisco IOS XE Release 3.1S 15.0(1)XA	1.2 1.4
Cisco UBE MIB support	Call Quality Statistics Monitor Voice Quality	15.0(1)XA	1.4
Expire Timer Reset on Receiving or Sending SIP 183 Message	Expires Timer Reset on Receiving or Sending SIP 183 Message	Cisco IOS XE Release 3.1S 15.0(1)XA	1.2 1.4
Interworking between RSVP capable and RSVP incapable networks	Interworking Between RSVP Capable and RSVP Incapable Networks	Cisco IOS XE Release 3.1S 15.0(1)XA	1.2 1.4
Interworking of Secure RTP calls for SIP	SRTP-SRTP Interworking	Cisco IOS XE Release 3.1S 12.2(20)T	1.2 1.0
Modem Passthrough	SIP-to-SIP Extended Feature Functionality for Session Border Controllers	Cisco IOS XE Release 3.1S	1.2
Multiple Registrars on SIP Trunks	Multiple Registrars on SIP Trunks	Cisco IOS XE Release 3.1S 15.0(1)XA	1.2 1.4

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
Out-of-dialog OPTIONS Ping for specified SIP Servers or Endpoints	SIP Trunk Monitoring	Cisco IOS XE Release 3.1S 12.4(22)YB	1.2 1.3
PAI, PPI, Privacy, P-Called-Party-ID and P-Associated-URI headers on Cisco Unified Border Element	Support for PAID, PPID, Privacy, PCPID, and PAURI Headers	Cisco IOS XE Release 3.1S 12.4(22)YB	1.2 1.3
RFC 4040-Based Clear Channel Codec Negotiation for SIP Calls	RFC 4040-Based Clear Channel Codec Negotiation for SIP Calls	Cisco IOS XE Release 3.1S	1.2
Selective Filtering of Outgoing Provisional Response on the CUBE	Selective Filtering of Outgoing Provisional Response on the Cisco Unified Border Element	Cisco IOS XE Release 3.1S	1.2
Session Border Controller Enhancements for H.323-to-SIP and SIP-to-SIP Supplementary Services, Transcoding Optimization and Firewall Integration	SIP-to-SIP Extended Feature Functionality Transcoding Configuration Cisco Unified Communication Trusted Firewall Control	Cisco IOS XE Release 3.1S	1.2
SIP 181 call is being forwarded message	Configure SIP 181 Call is Being Forwarded Message	Cisco IOS XE Release 3.1S 15.0(1)XA	1.2 1.4
SIP diversion header enhancements	SIP Profiles	Cisco IOS XE Release 3.1S 12.4(22)T	1.2 1.3
SIP History-info Header	SIP History INFO	Cisco IOS XE Release 3.1S	1.2
SIP SRTP Fallback to Nonsecure RTP	SRTP-RTP Internetworking	Cisco IOS XE Release 3.1S 12.4(22)T	1.2 1.3
SIP Video Support for Telepresence Calls	WebEx Telepresence Media Support Over Single SIP Session	Cisco IOS XE Release 3.1S	1.2 1.4
SIP-to-SIP Extended Feature Functionality for Session Border Controllers	SIP-to-SIP Extended Feature Functionality for Session Border Controllers	Cisco IOS XE Release 3.1S 12.4(6)T	1.2 1.4 1.0
SIP-to-SIP Basic Feature Functionality for Session Border Controller (SBC)	SIP-to-SIP Basic Functionality for Session Border Controller	12.4(4)T	1.0
SIP-to-SIP Supplementary Services for Session Border Controller	SIP-to-SIP Supplementary Services for Session Border Controller	Cisco IOS XE Release 3.1S 12.4(9)T	1.2 1.0

Feature Name	Where Documented	Cisco IOS XE Release	CUBE Version
Transparent Tunneling of QSIG and Q.931 over SIP TDM Gateway and SIP-SIP Cisco Unified Border Element	Transparent Tunneling of QSIG and Q.931	Cisco IOS XE Release 3.1S 12.4(15)XZ	1.2
The official marketing name of Cisco Multiservice IP-to-IP Gateway was changed to Cisco Unified Border Element (Cisco UBE)	Overview of Cisco Unified Border Element	12.4(15)XY	1.1
Transport Layer Security (TLS)	SIP TLS Support	Cisco IOS XE Release 3.1S	1.2
Ability to Send a SIP Registration Message on a Border Element	Basic SIP Configuration	Cisco IOS XE Release 2.5 12.4(24)T	1.2 1.3
Clearable SIP-UA Statistics	Clearable SIP-UA Statistics	Cisco IOS XE Release 2.5 12.3(2)T	1.2 1.0
IP-to-IP Gateway: SIP-to-SIP Basic Functionality	SIP-to-SIP Basic Functionality for Session Border Controller	12.2(13)T3	1.0
Configurable Hostname in Locally Generated SIP Header	Configurable Hostname in Locally Generated SIP Headers	Cisco IOS XE Release 2.5 12.4(2)T	1.2 1.0
Core SIP Technology Enhancements	SIP Core SIP Technology Enhancements	Cisco IOS XE Release 2.5 12.2(13)T	1.2 1.0
DTMF Events Through SIP Signaling	DTMF Events through SIP Signaling	Cisco IOS XE Release 2.5 12.2(11)T	1.2 1.0
iLBC Support for SIP	iLBC Support for SIP	Cisco IOS XE Release 2.5 12.2(11)T	1.2 1.0
INFO Method for DTMF Tone Generation	SIP INFO Method for DTMF Tone Generation	Cisco IOS XE Release 2.5 12.2(11)T	1.2 1.0
RFC 2782 Compliance with DNS SRV Queries	SIP: RFC 2782 Compliance with DNS SRV Queries	Cisco IOS XE Release 2.5 12.2(8)T	1.2 1.0
Session Timer Support	SIP Session Timer Support	Cisco IOS XE Release 2.5 12.2(8)T	1.2 1.0
SIP - Enhanced 180 Provisional Response Handling	SIP Enhanced 180 Provisional Response Handling	Cisco IOS XE Release 2.5 12.2(8)T	1.2 1.0

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SIP Parameter Modification	SIP Profiles	Cisco IOS XE Release 2.5 12.4(15)XZ	1.2
SIP Stack Portability	SIP Stack Portability	Cisco IOS XE Release 2.5	1.2
SIP--Gateway Support for the Bind Command	SIP Binding	Cisco IOS XE Release 2.5 12.2(8)T	1.2 1.0