



Additional Requirements

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XMPP Standards Compliance

The IM and Presence Service is compliant with the following XMPP standards:

- RFC 3920 Extensible Messaging and Presence Protocol (XMPP): Core RFC 3921 Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence
 - XEP-0004 Data Forms
 - XEP-0012 Last Activity
 - XEP-0013 Flexible Offline Message Retrieval
 - XEP-0016 Privacy Lists
 - XEP-0030 Service Discovery
 - XEP-0045 Multi-User Chat
 - XEP-0054 Vcard-temp
 - XEP-0055 Jabber Search
 - XEP-0060 Publish-Subscribe
 - XEP-0065 SOCKS5 Bystreams
 - XEP-0066 Out of Band Data Archive OOB requests
 - XEP-0068 Field Standardization for Data Forms
 - XEP-0071 XHTML-IM
 - XEP-0082 XMPP Date and Time Profiles
 - XEP-0092 Software Version
 - XEP-0106 JID Escaping
 - XEP-0114 Jabber Component Protocol

- XEP-0115 Entity Capabilities
- XEP-0124 Bidirectional Streams over Synchronous HTTP (BOSH)
- XEP-0126 Invisibility
- XEP-0128 Service Discovery Extensions
- XEP-0160 Best Practices for Handling Offline Messages
- XEP-0163 Personal Eventing Via PubSub
- XEP-0170 Recommended Order of Stream Feature Negotiation
- XEP-0178 Best Practices for Use of SASL EXTERNAL
- XEP-0220 Server Dialback
- XEP-0273 SIFT (Stanza Interception and Filtering Technology)

Configuration Changes and Service Restart Notifications

Whenever you need to restart a service, an **Active Notifications** popup appears. There is an **Active Notifications Summary** in the top right of the Cisco Unified CM IM and Presence Administration GUI header.

In addition, you can access an Active Notifications Listing by choosing **System > Notifications** From the Cisco Unified CM IM and Presence Administration interface.

Configuration Changes that Require a Restart

For many IM and Presence configuration changes and updates, you must restart the Cisco XCP Router, Cisco SIP Proxy or Cisco Presence Engine.

The following table displays the configuration changes that require a restart of any of these services. This list includes configuration changes, but does not include platform changes such as installs or upgrades.

Configurations that Require a Restart	Restart this Service
Application Listener Configuration (System > Application Listeners) Editing Application Listeners	Cisco SIP Proxy
Compliance Profile Configuration (Messaging > Compliance > Compliance Settings) (Messaging > Compliance > Compliance Profiles) If you edit settings for events that are assigned to a 3 rd party compliance server	Cisco XCP Router
Group Chat System Administrators (Messaging > Group Chat System Administrators) If you enable or disable this setting	Cisco XCP Router

Configurations that Require a Restart	Restart this Service
External File Server Configuration (Messaging > External Server Setup > External File Servers) If you edit the Host/IP Address Setting If you regenerate the External File Server Public Key	Cisco XCP Router
Group Chat and Persistent Chat Configuration (Messaging > Group Chat and Persistent Chat) If a chat node cannot reach its external DB at startup, the Cisco XCP Text Conference Mgr Service is not running	Cisco XCP Router
Group Chat Server Alias Mapping (Messaging > Group Chat Server Alias Mapping) Adding a chat alias	Cisco XCP Router
ACL Configuration (System > Security > Incoming ACL) (System > Security > Outgoing ACL) Edit Incoming or Outgoing ACL Configuration	Cisco SIP Proxy
Compliance Settings Message Archiver - edit the settings	Cisco XCP Router
LDAP Server (Application > Third-Party Clients > Third-party LDAP Settings) LDAP Search - editing LDAP Search Editing the Build vCards from LDAP Editing the LDAP attribute to use for vCard FN	Cisco XCP Router
Message Settings Configuration (Messaging > Settings) Editing the Enable instant message Suppress offline instant messaging	Cisco XCP Router
Microsoft RCC Configuration (Application > Microsoft RCC > Settings) Editing any of the settings on this page	Cisco SIP Proxy

Configurations that Require a Restart	Restart this Service
Presence Gateway (Presence > Gateways) Add, edit, delete a presence gateway After you upload MS Exchange certificates	Cisco Presence engine
Presence Settings Configuration (Presence > Settings > Standard Configuration) Editing the Enable Availability Sharing setting Allow users to view the availability of other users without being prompted for approval Maximum Contact List Size (per user) Maximum Watchers	Cisco Presence Engine Cisco XCP Router
Presence Settings Configuration (Presence > Settings > Standard Configuration) Editing the Enable user of Email address for Interdomain Federation field	Cisco XCP Router
Partitioned Intradomain Federation Configuration Presence > Settings > Standard Configuration (check box) Presence > Intradomain Federation Setup (wizard) Enable Partitioned Intradomain Federation with LCS/OCS/Lync via the check box or via the wizard Partitioned intradomain Routing Mode - configured via the Standard Configuration window or via the wizard	Editing these settings causes automatic restart of Cisco SIP Proxy In addition, you must restart XCP Router
Proxy Configuration (Presence > Routing > Settings) Any edit to the Proxy Configuration	Cisco SIP Proxy
Security Settings (System > Security > Settings) Editing any SIP security settings such as SIP Intracuster Proxy to Proxy Transport Protocol Editing any XMPP security setting	Cisco SIP Proxy (for SIP security edits) Cisco XCP Router (for XMPP security edits)
SIP Federated Domain (Presence > Interdomain Federation > SIP Federation) Add, edit, delete this configuration	Cisco XCP Router

Configurations that Require a Restart	Restart this Service
Third-Party Compliance Service (Application > Third-Party Clients > Third-Party LDAP Servers) Edit the Hostname/IP Address, Port, Password/Confirm Password fields	Cisco XCP Router
TLS Peer Subject Configuration (System > Security > TLS Peer Subjects) Any edits on this page	Cisco SIP Proxy
TLS Context (System > Security > TLS Context Configuration) Any edits on this page	You may need to restart the associated chat server
XMPP Federation (Presence > Interdomain Federation > XMPP Federation > Settings) (Presence > Interdomain Federation > XMPP Federation > Policy) Any edits to XMPP Federation	Cisco XCP Router
Intercluster Peering (Presence Inter-clustering) Editing the intercluster peer configuration	You may be asked to restart the Cisco XCP Router (a notification appears in the top right window) in some cases
Ethernet settings (From Cisco Unified IM and Presence OS Administration, Settings > IP > Ethernet/Ethernet IPv6) Editing any ethernet settings	Causes immediate system restart
IPv6 Configuration (System > Enterprise Parameters) Editing the Enable IPv6 enterprise parameter	Cisco XCP Router Cisco SIP Proxy Cisco Presence Engine
Troubleshooting If an IM+P publisher changes while subscriber is offline Edit the Settings > IP > Publisher setting from the subscriber	Restart subscriber node
Upgrading IM+P and you need to switch to previous version	Restart the system
Regenerating the cup certificate	Cisco SIP Proxy Cisco Presence Engine
Regenerate cup-xmpp	Cisco XCP Router

Configurations that Require a Restart	Restart this Service
Regenerate cup-xmpp-s2s certificate	Cisco XCP Router
Upload new certificate	Restart relevant service for that certificate. For Cup-trust certificates, restart the Cisco SIP Proxy
Remote Audit Log Transfer Protocol if you run any of the utils remotesyslog set protocol * CLI commands	Restart the node
If you get any of the following alerts: <ul style="list-style-type: none"> • PEIDSQueryError • PEIDStoIMDBDatabaseSyncError • PEIDSSubscribeError • PEWebDAVInitializationFailure 	It's recommended to restart Cisco Presence Engine
If you get any of the following alerts: <ul style="list-style-type: none"> • • XCPConfigMgrJabberRestartRequired • XCPConfigMgrR2RPasswordEncryptionFailed • XCPConfigMgrR2RRequestTimedOut • XCPConfigMgrHostNameResolutionFailed 	It's recommended to restart Cisco XCP Router
PWSSCInitFailed	It's recommended to restart Cisco SIP Proxy
Editing any of the Exchange Service Parameters <ul style="list-style-type: none"> • Microsoft Exchange Notification Port • Calendar Spread • Exchange Timeout (seconds) • Exchange Queue • Exchange Threads • EWS Status Frequency 	Cisco Presence Engine
Upload Exchange Certificates	Cisco SIP Proxy Cisco Presence Engine

Configurations that Require a Restart	Restart this Service
Installing locales	Restart the IM and Presence Service
Editing external database configuration	Cisco XCP Router
Merging external database	Cisco XCP Router
Configuring TLS Peer Subjects	Cisco SIP Proxy
Configuring Peer Authentication TLS Context	Cisco SIP Proxy
Editing the following Cisco SIP Proxy Service Parameters: <ul style="list-style-type: none"> • CUCM Domain • Server Name (supplemental) • HTTP Port • Stateful Server (transaction Stateful) • Persist TCP Connections • Shared memory size (bytes) • Federation Routing IM/P FQDN • Microsoft Federation User-Agent Headers (comma-delimited) 	Cisco SIP Proxy
Edit the Routing Communication Type service parameter	Cisco XCP Router
Editing the IM address scheme	Cisco XCP Router
Assign a default domain	Cisco XCP Router
Deleting or removing a node from the cluster	Cisco XCP Router
Any edit to a parameter that affects the Cisco XCP router requires you to restart the Cisco XCP router	Cisco XCP Router
Routing Communication Type service parameters	Cisco XCP Router
Editing either of the Cisco XCP File Transfer Manager service parameters: <ul style="list-style-type: none"> • External File Server Available Space Lower Threshold • External File Server Available Space Upper Threshold 	Cisco XCP Router
Edit the Enable Multiple Device Messaging service parameter	Cisco XCP Router
Editing the Maximum number of logon sessions per user service parameter	Cisco XCP Router
Updating the <code>install_dir /data/pg_hba.conf</code> or <code>install_dir /data/postgresql.conf</code> config files on the external database	Cisco XCP Router

Configurations that Require a Restart	Restart this Service
<p>Migration utilities:</p> <ul style="list-style-type: none">• Editing the Allow users to view the availability of other users without being prompted for approval setting in the Presence Settings window.• Editing the Maximum Contact Lists Size (per user) and Maximum Watchers (per user) setting in the Presence Settings configuration window.	Cisco XCP Router
Deleting or removing a node from a cluster	Cisco XCP Router