



System Requirements for Enterprise Chat and Email, Release 12.0(1) ES1

For Unified Contact Center Enterprise and Packaged Contact Center Enterprise

First Published: June 28, 2019

Americas Headquarters

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System Requirements for Enterprise Chat and Email: For Unified Contact Center Enterprise. June 21, 2019

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Mobile Devices for Customers

Welcome to the Enterprise Chat and Email (ECE) feature, which provides multichannel interaction software used by businesses all over the world as a core component to the Unified and Packaged Contact Center Enterprise product lines. ECE offers a unified suite of the industry's best applications for chat and email interaction management to enable a blended agent for handling of web chat, email and voice interactions.

About This Guide

This document outlines the recommended hardware and software specification for Enterprise Chat and Email. It provides details about compatible third party software requirements and contains links to other documents that provide hardware and bandwidth specifications.

This document is updated for Release 12.0(1) ES1.



Important: New installations and upgrades for ECE 12.0(1) are not supported on Windows Server 2012. If you need to access the archived documentation for the old platform, please contact Cisco Support.

Related Documents

The latest versions of all Cisco documentation can be found online at https://www.cisco.com

Subject	Link
Complete documentation for Enterprise Chat and Email, for both Cisco Unified Contact Center Enterprise (UCCE) and Cisco Packaged Contact Center Enterprise 2000	https://www.cisco.com/c/en/us/support/customer-collaboration/enterprise-chat- email-12-0-1/model.html

Communications, Services, and Additional Information

- > To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.
- > To get the business impact you're looking for with the technologies that matter, visit Cisco Services.
- ▶ To submit a service request, visit Cisco Support.
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- > To obtain general networking, training, and certification titles, visit Cisco Press.
- ▶ To find warranty information for a specific product or product family, access Cisco Warranty Finder.

Cisco Bug Search Tool

Cisco Bug Search Tool (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

Field Alerts and Field Notices

Cisco products may be modified or key processes may be determined to be important. These are announced through use of the Cisco Field Alerts and Cisco Field Notices. You can register to receive Field Alerts and Field Notices through the Product Alert Tool on Cisco.com. This tool enables you to create a profile to receive announcements by selecting all products of interest.

Log into www.cisco.com and then access the tool at https://www.cisco.com/cisco/support/notifications.html

Documentation Feedback

To provide comments about this document, send an email message to the following address: contactcenterproducts_docfeedback@cisco.com

We appreciate your comments.

Server Components

Virtual Server Support for Server Components

Enterprise Email and Chat is certified with the following versions of VMWare:

- VMWare ESXi 6.5
- VMWare ESXi 6.0

Virtualized deployments must utilize the OVA templates available on the DocWiki for proper sizing and resource utilization. For more information, see the *Virtualization for Enterprise Chat and Email* documentation.

Hardware for Server Components

To determine hardware requirements for servers, use the following document:

• Design Guide for Enterprise Chat and Email.

Software for Server Components

- An ECE deployment has the following components.
 - File Server
 - Application Servers
 - Web Servers
 - Messaging Server
 - Services Server
 - Database Server
 - Email Servers

File Server

Item	Requirements
Operating system (OS)	Microsoft [®] Windows Server [®] 2016
	Edition: Standard or Datacenter
	Version: 64-bit
	Language: English

Software requirements for the file server

Application Servers

Item	Requirements
Operating system (OS)	Microsoft [®] Windows Server [®] 2016
	Edition: Standard or Datacenter
	Version: 64-bit
	Language: English
Application server	Eclipse JETTY 9.4.14 (Installed automatically with 12.0(1) ES1)
Java	OpenJDK 11.0.1 (Installed automatically with 12.0(1) ES1)
Anti-virus	McAfee [®] VirusScan [®] Enterprise version 8.8i or higher
	or
	Symantec® AntiVirus® Endpoint Protection 12.1 or higher

Software requirements for application servers

Web Servers

ltem	Requirements
Operating system (OS)	Microsoft [®] Windows Server [®] 2016
	Edition: Standard or Datacenter
	Version: 64-bit
	Language: English
Web server	Microsoft® IIS® 8.5 (installed automatically) (Upgrades from previous versions only)
	Microsoft [®] IIS [®] 10 (installed automatically) (All new installations)
Anti-virus	▶ McAfee [®] VirusScan [®] Enterprise version 8.8i or higher
	or
	Symantec® AntiVirus® Endpoint Protection 12.1 or higher

Software requirements for web servers

Messaging Server

ltem	Requirements
Operating system (OS)	Microsoft [®] Windows Server [®] 2016
	Edition: Standard or Datacenter
	Version: 64-bit
	Language: English
Application server	▶ Apache ActiveMQ 5.15.6 (Installed automatically with 12.0(1) ES1)
Java	OpenJDK 11.0.1 (Installed automatically with 12.0(1) ES1)
Anti-virus	McAfee [®] VirusScan [®] Enterprise version 8.8i or higher
	or
	Symantec® AntiVirus® Endpoint Protection 12.1 or higher

Software requirements for the messaging server

Services Server

ltem	Requirements
Operating system (OS)	Microsoft [®] Windows Server [®] 2016
	Edition: Standard or Datacenter
	Version: 64-bit
	Language: English
Java	OpenJDK 11.0.1 (Installed automatically with 12.0(1) ES1)
Anti-virus	▶ McAfee [®] VirusScan [®] Enterprise version 8.8i or higher
	or
	Symantec® AntiVirus® Endpoint Protection 12.1 or higher

Software requirements for the services server

Database Server

ltem	Requirements
Operating system (OS)	Microsoft [®] Windows Server [®] 2016
	Edition: Standard or Datacenter
	Version: 64-bit
	Language: English
Database	▶ Microsoft [®] SQL Server [®] 2016 (SP2 with CU2 or higher)
	Standard, Business Intelligence, or Enterprise editions
	Version: 64-bit
Collation	ASCII (case insensitive)
Clustering for failover (optional)	A cluster of database servers can be configured to achieve failover.
Anti-virus	▶ McAfee [®] VirusScan [®] Enterprise version 8.8i or higher
	or
	Symantec [®] AntiVirus [®] Endpoint Protection 12.1or higher

Software requirements for the database server

Email Servers

The application works with all mail servers that support the following protocols

- ▶ For incoming emails: POP3, IMAP
- For outgoing emails: SMTP

Agent and User Desktops

Bandwidth for Agent and User Desktops

This section describes the bandwidth required between the user desktops and the web servers in the ECE deployment.

- At sign in: Average bandwidth requirement at login is 384 kilobits/second per user.
- At steady state: Average bandwidth requirement after login, working at a steady state, is 40 kilobits/second per user.

These values are based on load tests run in our labs.

Hardware for Agent and User Desktops

While determining hardware needs, in addition to the minimum requirements mentioned here, consider the resources required for other applications that will be running on the desktop at the same time as ECE.

ltem	Minimum requirements
CPU	Intel [®] or AMD [®] , 1.4 GHz or higher processor
	Version: 32-bit or 64-bit
RAM	▶ For Microsoft [®] Windows [®] 7: 4 GB
	2 GB available physical memory for ECE
	▶ For Microsoft [®] Windows [®] 8: 4 GB
	2 GB available physical memory for ECE
	▶ For Microsoft [®] Windows [®] 10: 4 GB
	2 GB available physical memory for ECE
Hard disk	512 MB for the Temporary Internet Files folder used by browser
Screen resolution	1024 x 768 pixels (minimum as well as recommended setting)

Minimum hardware requirements for user desktops

Software for Agent Desktops

ltem	Requirements
Operating system (OS)	No specific OS is required for ECE.
	Note: See <i>Cisco Finesse Installation Guide</i> to identify the OS that will work with both ECE and Cisco Finesse.
Operating system (OS) language	Chinese (Simplified), Danish, Dutch, English, French, French Canadian, German, Italian, Japanese, Korean, Spanish, Swedish, Brazilian Portuguese, Portuguese, and Russian
Web browser	Google Chrome, most recent generally available version
	Mozilla® Firefox®, most recent generally available version
	Microsoft Edge, most current generally available version
	Microsoft® Internet Explorer® - version 11.0 or higher
	Note: For the most current information on supported browsers, see the Unified CCE Software Compatibility Matrix: http://docwiki.cisco.com/wiki/Compatibility_Matrix_for_Unified_CCE
Cisco Finesse	Cisco Finesse 12.0(1)
Anti-virus	McAfee [®] VirusScan [®] Enterprise version 8.8i or higher
	or
	Symantec [®] AntiVirus [®] Endpoint Protection 12.1 or higher
Popup blockers	Popup blockers need to be disabled.
Localized user interface	Chinese (Simplified), Danish, Dutch, English, French, French Canadian, German, Italian, Japanese, Korean, Spanish, Swedish, Brazilian Portuguese, Portuguese, and Russian.
	NOTE: Chinese (Simplified), Japanese, and Korean user interfaces require operating systems in corresponding languages.

Software requirements for agent desktops

Software for Other User Desktops

The section describes software requirements for all users who need to access the Supervision, Reports, Knowledge Base, Administration, System, and Tools Consoles of ECE.

Item	Requirements
Operating system (OS)	▶ Microsoft [®] Windows [®] 7
	or
	Microsoft [®] Windows [®] 8 (Desktop mode)
	or
	Microsoft® Windows® 10 (Desktop mode)
	Note: See <i>Cisco Finesse Installation Guide</i> to identify the OS that will work with both ECE and Cisco Finesse.
Operating system (OS) language	Chinese (Simplified), Danish, Dutch, English, French, French Canadian, German, Italian, Japanese, Korean, Spanish, Swedish, Brazilian Portuguese, Portuguese, and Russian
Java runtime environment	Oracle JRE 1.8.0 (update 66 or higher)
	This is required only to administer workflows from the Administration Console.
Web browser	▶ Microsoft® Internet Explorer® 11.0 or higher
	Internet Explorer runs in compatibility mode.
	For the most current information on supported browsers, see the Unified CCE Software
	Compatibility Matrix: http://docwiki.cisco.com/wiki/Compatibility_Matrix_for_Unified_CCE
Anti-virus	McAfee [®] VirusScan [®] Enterprise version 8.8i or higher
	or
	Symantec [®] AntiVirus [®] Endpoint Protection 12.1 or higher
Native xmIHTTP	Native xmIHTTP must be enabled. This is required for Ajax.
JavaScript	JavaScript must be enabled.
Cookies	Cookies must be enabled.
Popup blockers	Popup blockers need to be disabled.
Localized user interface	Chinese (Simplified), Danish, Dutch, English, French, French Canadian, German, Italian, Japanese, Korean, Spanish, Swedish, Brazilian Portuguese, Portuguese, and Russian.
	NOTE: Chinese (Simplified), Japanese, and Korean user interfaces require operating systems in corresponding languages.

Software requirements for other desktops

Customer Desktops

Hardware for Customer Desktops

We do not mandate any minimum requirements for customer desktops used in chat interactions.

Software for Customer Desktops

These software requirements are for customer desktops used in chat interactions. There are no specific software requirements for desktops used for emails.

Item	Requirements
Browsers	 One of the following: Microsoft[®] Internet Explorer[®] 11or higher Mozilla[®] Firefox[®], most recent generally available version Safari, most recent generally available version Google Chrome, most recent generally available version Microsoft[®] Edge[®], most recent generally available version
JavaScript	JavaScript must be enabled.
Cookies	Cookies must be enabled.
Popup blockers	Popup blockers need to be disabled for page-push.

Browsers supported for chat interactions

Mobile Devices for Customers

Apple iOS (8.1.1 or higher) and Android (4.4.2 or higher) devices are supported for chat.