



Preface

- [Change History](#) , on page i
- [About This Guide](#), on page iii
- [Audience](#), on page iii
- [Related Documents](#), on page iii
- [Communications, Services, and Additional Information](#), on page v
- [Field Notice](#), on page v
- [Documentation Feedback](#), on page v
- [Conventions](#), on page vi

Change History

This table lists the major changes made to this guide. The most recent changes appear at the top.

Changes	Section	Date
Added a note for OVA when VVB fresh install is performed on a medium or small Open Virtual Appliance (OVA).	Cisco Virtualized Voice Browser Sizing	April, 2023
Added support for vMotion	Solution-Wide Support for vMotion	May, 2021
Increased configuration limit for active mobile agents with call-by-call connections per agent PG	Agent Limits PG Agent Capacity with Mobile Agents	March, 2021
Added support to scale to 36000 Agents from 24000 Agents Reference Design	Scale Up to 36000 Agents	February, 2021

Changes	Section	Date
Initial Release of Document for 12.5(1)		February, 2020
<p>Added Reference Design layouts and VM specifications on Cisco UCS C240 M5SX and Cisco Hyperflex HX220c M5SX TRC servers for the following deployment types:</p> <ul style="list-style-type: none"> • 2000 Agent Deployment • 4000 Agent Deployment • 12000 Agent Deployment • 24000 Agent Deployment 	Contact Center Enterprise Reference Designs	
Added information on the new Cisco Webex Experience Management Feature feature.	Contact Center Enterprise Solutions Overview Design Considerations for Integrated Features	
Added information on the new Customer Virtual Assistance Feature feature.	Design Considerations for Integrated Features	
Added shared ACD Line support for both home and work phone on two shared ACD lines	Design Considerations for Integrated Features	
<p>Increased configuration limits for the following:</p> <ul style="list-style-type: none"> • Outbound dialer maximum calls per second per dialer • Outbound dialer maximum ports per SIP dialer • Number of preview campaigns per system • Number of predictive Campaigns per system (Agent or VRU based) • Predictive Campaign Skill Groups per Peripheral 	Outbound Campaign Limits	
Removed information on Cisco MediaSense, Cisco Remote Expert, and Context Service which reached its end of maintenance support.		

Changes	Section	Date
Added desktop chat search	Desktop Chat Server Settings	

About This Guide

This guide provides design considerations and guidelines for deploying Cisco Unified Contact Center Enterprise (Unified CCE) solutions. The guide combines information for all the components that might be present in your solution. This guide assumes that you are familiar with basic contact center terms and concepts. Successful deployment of Unified CCE solutions also requires familiarity with the information presented in the *Cisco Collaboration System Solution Reference Network Designs*.

This guide focuses on the design process. Its goal is to present the necessary information to take your design from starting concept to final submission. Details of installation, configuration, and administration of your contact center enterprise solution are covered in other guides.

The first four chapters of the book give a broad perspective of the contact center enterprise solutions:

- Packaged Contact Center Enterprise
- Cisco Hosted Collaboration Solution for Contact Center
- Unified Contact Center Enterprise

For information about design considerations and guidelines specific to HCS for CC, see the remaining chapters.

Audience

The first three chapters in this guide are for anyone who wants a broad overview of the contact center enterprise solutions.

The primary audience for the guide is people who design contact centers. The guide is also helpful for system administrators who want a deeper understanding of how the components in a contact center enterprise solution work together.

Related Documents

Consult these documents for details of these subjects that are not covered in this guide.

Subject	Link
<i>Compatibility Matrix</i> for information on which versions of which products are supported for a contact center enterprise solution.	https://www.cisco.com/c/en/us/support/customer-collaboration/unified-contact-center-enterprise/products-device-support-tables-list.html https://www.cisco.com/c/en/us/support/customer-collaboration/packaged-contact-center-enterprise/products-device-support-tables-list.html https://www.cisco.com/c/en/us/support/unified-communications/hosted-collaboration-solution-contact-center/products-device-support-tables-list.html
<i>Cisco Unified Contact Center Enterprise Features Guide</i> for detailed information on the configuration and administration of integrated features in your solution.	http://www.cisco.com/c/en/us/support/customer-collaboration/unified-contact-center-enterprise/products-feature-guides-list.html
Cisco Hosted Collaboration Solution for detailed information on Hosted Unified Communications and Data Center infrastructure on which the HCS for CC solution is built.	http://www.cisco.com/c/en/us/support/unified-communications/hosted-collaboration-solution-hcs/tsd-products-support-series-home.html

You can find the full documentation of each of the components in the contact center enterprise solutions at these sites:

Component	Link
Cisco Hosted Collaboration Solution for Contact Center	https://www.cisco.com/c/en/us/support/unified-communications/hosted-collaboration-solution-contact-center/tsd-products-support-series-home.html
Cisco Finesse	http://www.cisco.com/c/en/us/support/customer-collaboration/finesse/tsd-products-support-series-home.html
Cisco Customer Collaboration Platform	https://www.cisco.com/c/en/us/support/customer-collaboration/unified-contact-center-express/tsd-products-support-series-home.html
Cisco Unified Customer Voice Portal	http://www.cisco.com/c/en/us/support/customer-collaboration/unified-customer-voice-portal/tsd-products-support-series-home.html
Cisco Unified Intelligence Center	http://www.cisco.com/c/en/us/support/customer-collaboration/unified-intelligence-center/tsd-products-support-series-home.html
Cisco Virtualized Voice Browser	http://www.cisco.com/c/en/us/support/customer-collaboration/virtualized-voice-browser/tsd-products-support-series-home.html

Communications, Services, and Additional Information

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- 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](#).
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit [Cisco Marketplace](#).
- 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 Notice

Cisco publishes Field Notices to notify customers and partners about significant issues in Cisco products that typically require an upgrade, workaround, or other user action. For more information, see *Product Field Notice Summary* at <https://www.cisco.com/c/en/us/support/web/tsd-products-field-notice-summary.html>.

You can create custom subscriptions for Cisco products, series, or software to receive email alerts or consume RSS feeds when new announcements are released for the following notices:

- Cisco Security Advisories
- Field Notices
- End-of-Sale or Support Announcements
- Software Updates
- Updates to Known Bugs

For more information on creating custom subscriptions, see *My Notifications* at <https://cway.cisco.com/mynotifications>.

Documentation Feedback

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

We appreciate your comments.

Conventions

This document uses the following conventions:

Convention	Description
boldface font	<p>Boldface font is used to indicate commands, such as user entries, keys, buttons, folder names, and submenu names.</p> <p>For example:</p> <ul style="list-style-type: none"> • Choose Edit > Find. • Click Finish.
<i>italic font</i>	<p>Italic font is used to indicate the following:</p> <ul style="list-style-type: none"> • To introduce a new term. Example: A <i>skill group</i> is a collection of agents who share similar skills. • A syntax value that the user must replace. Example: IF (<i>condition, true-value, false-value</i>) • A book title. Example: See the <i>Cisco Unified Contact Center Enterprise Installation and Upgrade Guide</i>.
window font	<p>Window font, such as Courier, is used for the following:</p> <ul style="list-style-type: none"> • Text as it appears in code or that the window displays. Example: <pre><html><title>Cisco Systems, Inc. </title></html></pre>
< >	<p>Angle brackets are used to indicate the following:</p> <ul style="list-style-type: none"> • For arguments where the context does not allow italic, such as ASCII output. • A character string that the user enters but that does not appear on the window such as a password.