



Cisco Contact Center Enterprise 12.0 Product Line

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Solutions overview

The Cisco® Contact Center Enterprise (CCE) product line helps businesses and organizations deliver a connected digital experience, enabling you to provide contextual, continuous, and capability-rich journeys for your customers, across time and channels. The Contact Center Enterprise product line consists of three distinct product offerings, which are collectively covered in this data sheet:

- Cisco Packaged Contact Center Enterprise (Packaged CCE) provides an enterprise-class contact center in a prepackaged deployment model that's easy to install, configure, and administer. Packaged CCE offers easier ordering with a price advantage; reduced presales and post-sales cycles; and simplified deployment, operation, and maintenance. Packaged CCE includes Cisco Unified Communications Manager, Unified Customer Voice Portal (CVP), and Unified CCE (including built-in chat and email, Cisco Unified Intelligence Center, and the Cisco Finesse® web-based agent desktop). Packaged CCE is now available for contact center deployments up to 12000 agents.
- Cisco Unified Contact Center Enterprise (Unified CCE) is suited to offering Omni channel customer care for service providers, outsourcers, and large enterprise companies. Unified CCE offers maximum flexibility and customization. It uses contact information and its deep knowledge of agents and other resources to route each contact to the best source of help. Agents receive a rich set of call and customer data—including context from previous interactions—to provide highly personal, efficient customer service. Unified CCE comes with Cisco Unified Intelligence Center for comprehensive reporting and the Cisco Finesse web-based agent desktop for an enhanced, next-generation experience. Web chat and email are included with every agent license. Distributed fault tolerance helps ensure uninterrupted operation.
- Cisco Hosted Collaboration Solution for Contact Center (HCS-CC) is designed for companies with small to large contact centers ranging from 10 to 24,000 knowledge workers or agents per customer instance. It is integrated with Cisco Hosted Collaboration Solution, so customers can tap into multiple applications and services on one platform. Cisco HCS-CC delivers the advanced capabilities of Unified CCE and Unified CVP with all the benefits of cloud computing.

Table 1 lists the new features and benefits available in the latest release of the product line.

Table 1. New features and benefits

Feature	Benefits
Next-generation unified administration for PCCE with UX refresh	A unified admin console on a single pane of glass can manage the end-to-end solution, including PCCE system and partner applications.
Finesse user experience refresh for agents and supervisors	The contemporary design and enhanced agent experience combine with the next generation of Cisco's market-leading thin client agent desktop.
Scale UCCE and HCS CC to 24,000 agents per instance	A doubling in scale of the UCCE solution allows customers to have even larger deployments with a single instance.
Scale PCCE to 12,000 agents (introduced 4000 and 12000 deployment types)	Bring all the benefits of the Packaged CCE solution to a larger set of customers.
Simplified business hour administration	Administrators gain more flexibility to manage contact center operations.

Feature	Benefits
Secured end-to-end transport of PII data	Secure communication of PII data via TLS 1.2 can enable customers to comply with regulatory requirements.
Increase in Expanded Call Context (ECC) payload limit	More data made available for administrators helps to enable better routing controls.
Advanced digital multi-tasking with pick/pull email activities	Increase agent productivity with multi-model communication to better serve the end customer.
Enterprise chat and email high availability	Enhanced reliability for digital interactions
Built-in communication tools such as desktop chat and team message	Improved back-office and front-office productivity to drive quicker issue resolution
Support for VMware Cloud on AWS (UCCE, PCCE – 4000, 12,000)	Customers can migrate their deployments to public cloud platforms with subscription-based pricing.
Reporting experience refresh for administrators	Improved reporting experience for administrators.
Multi-site supervisor support	Supervisors can now manage teams on remote sites.
G.711 A law support for SIP dialer	Continued adherence to standards for European customers
Bridge transfer support with VVB	Improved flexibility with IVR call flows
Utility for certificate management and monitoring	Simplified administration for handling certificate lifecycle
De-couple authorization dependencies from Active Directory	Better control of corporate directory services to enable secure policy adherence.

Table 2 lists the continuing features and benefits of the product line.

Table 2. Continuing features and benefits

Feature	Benefits
Solution features	
Reduces long-distance toll charges and network bandwidth	The CCE product line treats the entire IP network as an intelligent switch, meaning that calls can be handled at the edge of the network, thereby reducing bandwidth usage.
Centralizes services	For the large enterprise, a centralized contact center operation enables the software and administration to be maintained centrally. This centralized operation helps branch offices avoid purchasing and maintaining the software, installing their own upgrades, and making staffing decisions independently of the rest of the company.
Differentiates service	By retaining context as customers are transferred among agents, even between different locations and to at-home agents, your company can differentiate itself through superior customer service. For example, you can retrieve the information a customer has already supplied to purchase one product or service when the customer initiates another purchase or interaction elsewhere.
Allows control of network resources	The enterprise can control certain network resources, such as assigning agents to skill groups and defining routing based on a number called or caller-entered digits such as account numbers. In addition, you can control all functions from a single operating interface, reducing training and

Feature	Benefits
	support requirements.
License usage report	The system can generate reports on the number of agents, Unified CVP ports, and outbound dialer ports in use, enabling organizations to better track system utilization.
Agent capabilities	
Cisco Enterprise Chat and Email (ECE)	Each agent license includes Cisco ECE, which offers multichannel capabilities with chat, email, and web callback. It helps businesses manage customer email messages and chats by automatically routing the chat or email to the correct resource, based upon information in the request and agent availability. With web collaboration, customers can chat with agents live over the web, with agents able to handle multiple chat sessions simultaneously. The email feature helps businesses manage large volumes of customer email inquiries by sending automated replies and routing the email to the right resource. With the web callback feature, customers can request a callback from a contact center when the right agent is available. ECE also provides reporting and monitoring tools to more effectively manage your contact center.
Cisco Finesse desktop software and API	<p>The Cisco Finesse desktop is a next-generation agent and supervisor desktop solution designed to provide easy access to the applications and information your customer service organization needs through a customizable web-based interface. It offers your customer care representatives an intuitive, easy-to-use desktop design to help improve their performance and satisfaction, in turn enhancing their ability to provide quality customer service.</p> <p>For IT professionals, the Cisco Finesse application offers a thin-client agent desktop that integrates smoothly with the Cisco Collaboration portfolio. It is standards-compliant, and offers low cost of customization of the agent and supervisor desktops.</p> <p>The Cisco Finesse API allows companies to develop custom Cisco Finesse desktop capabilities tailored to meet the specific needs of their contact center operations. The Cisco Finesse API provides this feature through REST APIs and JavaScript libraries that simplify the development and integration of value-added applications and reduce the need for detailed desktop development expertise.</p>
Single sign-on	The solution simplifies login and password management for agents and supervisors by allowing just one login for the Cisco Finesse desktop and associated gadgets. All SAML 2.0 compatible IdPs Single sign-on is supported for the maximum of 12000 concurrent agents in PCCE.
Cisco Outbound Option	The Cisco Outbound Option, with its combination of outbound dialing modes, complements the powerful inbound call-handling capability of the CCE product line. You can build campaigns to use predictive, progressive, or preview dialing, which is integrated with inbound calls and compliant with contact center service levels, to offer a powerful blended solution. You can allocate agents to handle only inbound, only outbound, or both inbound and outbound contacts, offering an effective way to increase resource use in a contact center. Call-Progress Analysis (CPA) (also known as answering machine detection) is enabled for the outbound dialer when using Cisco Unified Border Element. Outbound reports include Performance Monitoring (PerfMon) counters and personal call-back improvements for better agent usage.
Agent greeting	You can play a configurable, automated agent greeting to callers, standardizing the caller experience. The greeting helps keep the agent voices fresh because they do not have to repeat the same greeting on every call.
Agent whisper	Customers can play a configurable announcement to an agent right before the caller is connected, providing information about the type of call being delivered (for example, sales or tech support) and other guidance. Agents get information about the caller through their headset, speeding problem handling and improving first-call resolution.
Consumer-to-agent video	Live video interactions between agents and consumers are supported through Cisco Remote Expert Mobile and Branch.

Feature	Benefits
Remote-agent support	<p>Remote-agent support extends the contact center by providing Computer Telephony Integration (CTI), contact distribution, and reporting capabilities to remote agents in branch offices or at home, through either a broadband network connection or their home telephone line. The CCE product line provides identical user interfaces and feature functions to agents, regardless of location.</p> <p>Cisco Unified Mobile Agent allows agents to choose their destination phone number during login time, and to change the number as often as they want, giving the contact center the flexibility to adapt to a fast-moving mobile workforce. With work-at-home programs, agents can be given location flexibility while reducing the contact center's startup costs. This capability also allows agents to be on any phone device on any third-party switch infrastructure.</p>
Extension Mobility (cross-cluster)	<p>This Cisco Unified Communications Manager feature, supported by CCE, allows agents to temporarily access their Cisco unified IP phone configuration, such as line appearances, services, and speed dials, from other Cisco unified IP phones.</p>
Mobile agent call-by-call mode	<p>Remote agents consume system resources (such as gateway ports and recording channels) only when actively on a call.</p>
Cisco Finesse IP Phone Agent	<p>The CCE product line supports IP Phone Agent, allowing agents to use their Cisco IP phone to perform common agent tasks such as setting their state (for example, ready or not ready).</p>
Self-service capabilities	
Self-service options	<p>Cisco Unified CCE does not come with built-in Interactive Voice Response (IVR) capabilities but can easily be integrated with either of two Cisco IVR products that are available at additional cost: Cisco Unified Customer Voice Portal (Unified CVP) or Cisco Unified IP Interactive Voice Response (Unified IP IVR). Unified CCE can also integrate with third-party IVR and self-service systems through its open IVR Service Control interface.</p> <p>Packaged CCE and HCS-CC come with Unified CVP built in.</p>
Cisco Unified Customer Voice Portal	<p>Cisco Unified CVP operates with both Time-Division Multiplexing (TDM) - and IP-based contact centers to provide a call management and treatment solution with a self-service IVR option that can use information available to customers on the corporate web server. With support for Automatic Speech Recognition (ASR) and Text To Speech (TTS), callers can obtain personalized answers to their questions and conduct business in innovative ways without the costs of interacting with a live agent.</p> <p>For example, with Cisco Unified CVP, you can pay a bill, order products and track delivery, locate a dealer, schedule a pickup, change name and address information, make travel arrangements, check payment status, receive notification of unusual activity, and request literature or product information.</p>

Feature	Benefits
Cisco Unified IP IVR	<p>Cisco Unified IP IVR is designed to simplify business integration, increase flexibility, and provide efficiency gains in network hosting. These features reduce business costs, and they can dramatically improve customer satisfaction. Tightly integrated with Cisco Unified Communications Manager software, Cisco Unified IP IVR offers ease of installation, configuration, and application hosting because it is constructed to exploit the power of IP-based communications.</p> <p>Cisco Unified IP IVR facilitates self-service applications, such as access to checking account information or user-directed call routing, by processing user commands through touch-tone input or speech-recognition technologies. Customers can use voice commands to retrieve the information they require without ever speaking with an agent, or to quickly navigate to the correct department or agent who can help them.</p>
Management capabilities	
Supervisory features	<p>Supervisors can view agent states and call information, send text chat messages to agents, interrupt or intercept calls, record conversations, and silently monitor agent calls from the corporate network or through a remote dial-in connection. These features add value to the supervisor's role in the contact center and help them effectively manage their teams.</p> <p>With supervisor and agent chat capabilities, supervisors can send text messages to agents participating in a call, allowing supervisors to coach agents unobtrusively on cross-sell and up-sell opportunities and help agents resolve customer situations. Supervisors can interrupt an agent's call to create a three-way conference, and then interact with both the caller and the agent to help resolve a concern. A supervisor can remove the agent from a call using the Intercept feature, allowing the supervisor and caller to complete the call on their own while the agent handles another customer request.</p> <p>Supervisors can change an agent's state from their desktop. For example, agents may forget to make themselves available to take calls after a break or neglect to log out when away from their workstations for an extended period. Supervisors can easily log out missing agents or make unintentionally idle agents ready to take calls.</p> <p>This function is critical to highly distributed contact center deployments.</p> <p>Supervisors also can change an agent's skill profile in real time. This capability gives supervisors tactical tools to manage their agent teams and support contact center management objectives.</p>
Administration	<p>Streamlined administration allows managers to perform all contact center administration centrally. The administrative interface allows agents to be set up to handle voice, web, chat, and email contacts, depending on their assigned skill sets. The interface allows system managers, administrators, and supervisors to develop, modify, or view routing scripts; manage the system configuration; monitor contact center performance; define and request reports; and help ensure system security. This one user interface provides enterprise-wide control across the single- or multisite contact center.</p>

Feature	Benefits
Multitenancy with departments	<p>Customers with multiple Lines Of Business (LOBs) or departments can easily share the same instance of Unified CCE or Packaged CCE using the Departments feature. This feature allows you to assign resources, including agents, skill groups, call types, and precision queues, by LOB or department. When resources are assigned to a LOB or department, only the supervisor or manager of that LOB or department can view and manage those resources.</p> <p>In Unified CCE, you can manage departments through the Cisco Unified Contact Center Management Portal (Unified CCMP). In Packaged CCE, the native web administration allows management of departments.</p> <p>Along with configuration, scripting access is also segmented when using Internet Script Editor. Finally, using the Cisco Unified Intelligence Center Collections feature, you can segment reporting to match departments.</p>
System capabilities	
Open systems	<p>The CCE product line takes full advantage of industry-standard hardware platforms, giving you the benefits of many software functions at a modest hardware cost. The open architecture of the system, which includes an Open Database Connectivity (ODBC)-compliant database, as well as Java, COM, and .NET interfaces for CTI applications, can integrate with existing contact center solutions, preserving investments in traditional systems and providing a platform for future applications.</p>
Operating systems	<p>The CCE product line supports Windows 2012 R2, SQL 2014, and VMware ESXi 6.0 and 6.5</p>
Distributed fault tolerance	<p>From the network to the desktop, all components and external application links provide carrier-class, distributed fault tolerance at both the hardware and software levels, with real-time application failover capabilities. Self-diagnostics and self-healing features allow the system to automatically take advantage of redundant components when required; the system is resilient to hardware component failures, communications network failures, and asynchronous software errors.</p>
Network management	<p>CCE product line software provides a Simple Network Management Protocol (SNMP) interface for integration into centralized network management systems. It also provides integration into a broader unified communications management infrastructure, bundled with Cisco Unified Communications Manager. It provides new levels of availability and manageability during deployments and upgrades, as well as during normal contact center operations.</p>
Security	<p>The CCE product line supports the latest in security and data integrity features and solutions to reduce attack surfaces and system vulnerability. Secure Sockets Layer (SSL) is available on all web-based applications, and Transport Layer Security (TLS 1.2) and IP Security (IPsec) support is available for sockets-based communications to secure data in transit across trusted and untrusted networks.</p>
IPv6 dual mode	<p>The CCE product line supports IPv6 endpoints in dual-network mode, enabling easier migration from IPv4.</p>

Feature	Benefits
Product functions	
Routing functions	Precision routing sends the contact to the best available resource, based on information about the caller and the attributes of the agent. By delivering the contact effectively, companies can reduce overall handle time, decrease the need for multiple transfers, and increase customer satisfaction with the experience. Precision routing is supported for all contact channels, including voice/video, web, chat, and email.
Cisco pre-routing and post-routing functions	The Cisco pre-routing function makes routing decisions for each call while it is still in the carrier's network, enabling the Cisco platform to effectively segment customers, balance calls across the enterprise, and deliver each contact to the best enterprise resource the first time. The Cisco post-routing function provides the intelligent distribution of contacts already connected to a peripheral in your network, whether it is an Automatic Call Distributor (ACD), PBX, IVR, web, or email server. When a contact requires redirection, Cisco Unified CCE applies business logic, instructing the peripheral to send the contact to the best available enterprise resource.
Customer profile routing	The CCE product line extends the sources of data available for making contact routing decisions and for populating agent desktop applications. For instance, you can perform a lookup in your customer database during routing to guide its decisions. You can also use information from CRM applications to match customers with agents and expand the data available to screen-pop applications. Wherever an agent is based, the system delivers context-call event and customer-profile data as a contact arrives, allowing the agent or application to personalize service and help maximize efficiency.
Agent request API	The agent request API enables businesses to add voice callback as a feature to their custom-developed applications for the web and for mobile applications. Businesses can present callback as one of the ways or channels their customers can contact them, allowing customers to choose the channel of communication that works best for them.
Outbound campaign management API	This API allows for more precise control over contact center outbound calling campaigns.
Cisco Outbound Option high availability	High availability is supported for Cisco Outbound Option, using existing solution servers.
Reporting	<p>The CCE product line provides real-time and historical data necessary for mission-critical contact center reporting across all media types. The solution provides accurate and timely reports on contact center activity, helping managers make informed decisions regarding staffing levels and contact handling procedures.</p> <p>Reporting is provided by the Cisco Unified Intelligence Center, which offers numerous report templates intended to meet common reporting needs. With the availability of the underlying data model and schema, you can easily develop custom reports to extend the solution to meet specific reporting needs. Furthermore, the CCE product line allows for the export of reporting data to external data warehouse environments for extended storage and advanced analytics.</p> <p>The Live Data feature provides a new real-time architecture with significant real-time refresh-rate improvements with actionable, real-time contact center information. Reports available from Cisco Unified Intelligence Center and reporting gadgets available on the Cisco Finesse desktop take advantage of this next-generation architecture.</p>

Feature	Benefits
Task routing	This feature coordinates an agent's ability to work on multiple tasks from various channels while allowing the agent to be interrupted with high-priority tasks as required. For instance, an agent who is assisting a customer using text chat could handle another chat request at the same time, increasing the agent's productivity. Agents also can be delivered a task of a different channel type from their active task. For example, an agent responding to a customer's email message can be sent a voice call or a back-office task, allowing the agent to handle the real-time voice call and then return to the email message. In this way, you can optimize your agents' activities, helping ensure the highest level of customer service with the resources available.
Task Routing API	This API enables new types of interactions—such as third-party applications, videos, texts, and events from the Internet of Things—to be routed to the contact center. The Task Routing API also allows precision routing capabilities to be applied to non-voice interactions.

Specific capabilities of Packaged CCE are described in Table 3.

Table 3. Packaged CCE capabilities

Capability	Description
Scalability	Cisco Packaged CCE supports configurations of up to 12,000 agents at 105 calls per second, with up to 50 queues per agent and 15,000 call types. Consult the solution design guide for additional configuration limits for scaling.
Packaged CCE support for multisite (global) deployment	Packaged CCE supports up to four peripheral gateway–Unified Communications Manager pairs, enabling a broader range of geographic and segmentation deployment options.
Packaged CCE support for the application gateway	Packaged CCE can use the application gateway to obtain data from outside applications, enhancing its ability to support unique business processes and requirements.
Reduced integration costs	Until now, businesses had to integrate numerous products from different vendors, an expensive task that postponed service introduction. Cisco Packaged CCE provides inbound and outbound voice and video, IVR, and web interaction. In addition, the solution supports best-in-class contact center applications such as CRM, workforce management, recording and monitoring, and wallboards. By consolidating all contact center functions into a single platform, Cisco Packaged CCE reduces capital expenditures and integration expenses while accelerating time to market for a complete contact center solution.
Cisco Unified Computing System™ (Cisco UCS®), Cisco Integrated Services Routers Generation 3 (ISR G3), and Cisco Nexus® support	Cisco UCS C240 M4 and M5 Rack Servers are supported. Support for the Cisco Nexus 1000V Switch (running on a virtual machine) provides multitenant secure Layer 4–7 networking services for the Packaged CCE environment. Cisco Packaged CCE is supported with Cisco ISR G3 (4000 Series) gateways. Packaged CCE also supports third-party hardware with specification-based configuration.
System inventory and notification	Taking advantage of the fixed deployment model of Packaged CCE, the system automatically generates a visual representation of a Packaged CCE deployment. It is a dashboard of administrative information, including name, IP address, and shortcuts to other administration user interfaces such as Cisco Unified CVP Operations, Administration, Maintenance, and Provisioning (OAM&P), etc. It also serves as a level-one dashboard, providing visual notifications of errors or warnings of configuration or runtime problems through periodic auto-scans, keeping track of system health and reducing Total Cost of Ownership (TCO).
Management	Packaged CCE uses built-in web administration gadgets and capabilities to manage the solution. Specific capabilities include system inventory, server status and notifications, automated installation and configuration, built-in status rules, built-in departments, built-in roles, one-click log collection, simplified trace setting, web gadgets to add/remove/update configuration and to perform agent reskilling, and multi-edit capabilities. REST APIs for these and other operations are exposed so that customers and partners can tailor them to their specific needs.

Specific capabilities of Unified CCE are described in Table 4.

Table 4. Unified CCE capabilities

Capability	Description
Scalability	Cisco Unified CCE scales from small, single-site deployments of tens of agents up to large enterprise and hosted, distributed deployments that support thousands. Because the Cisco Unified CCE architecture is software-based, the system scales easily without causing obsolescence of any components. Cisco Unified CCE is designed to accommodate changing contact center environments.
Contact Director	The Contact Director deployment model uses contact-sharing technology to enable customers who have up to three Cisco Unified CCE systems to distribute calls across those systems, thus increasing overall agent and call-handling capacity. Contact sharing uses live data to learn about current conditions at those sites and can base routing decisions on factors such as number of calls in queue, agent availability, average handle time, or custom calculations.
Management	The Cisco Unified Contact Center Management Portal (CCMP) provides a simple-to-use web-based user interface to streamline the day-to-day provisioning and configuration operations that contact center managers, team leads, or administrators perform, such as moves, adds, or modifications of phones, agents, skill groups, and teams, and other common contact center administrative functions. Agents with appropriate permission are also provided a unique interface on the Cisco Unified CCMP on which they can make changes to their profile and work assignment. The unified configuration of the management portal is designed to simplify administration of both the applicable IP-based contact center elements and the Cisco Unified Communications Manager components. The Cisco Unified CCMP is a partitioned system that can support multiple business units with complete autonomy, and it offers hierarchical administration to support users at multiple levels within the business and specific roles and responsibilities. Finally, to help administrators and managers keep track of contact center modifications, it provides audit-trail reports detailing all configuration changes and usage of the management portal.

Specific capabilities of Hosted Collaboration Solution – Contact Center (HCS-CC) are described in Table 5

Table 5. HCS-CC capabilities

Capability	Description
Scalability	The HCS-CC solution is integrated with Cisco HCS's service management and data center architecture. The current release offers a service provider-specific deployment model designed for companies with tens of agents to 24,000 agents (or knowledge workers).
Management	The Contact Center Domain Manager (CCDM) provides service management for HCS-CC. CCDM has capabilities comparable to those of Unified CCMP (described in Table 4).

Ordering information

To place an order, visit the [Cisco Ordering homepage](#). Detailed ordering information is available in the [Cisco Customer Care Solutions Ordering Guide](#) (requires a Cisco.com login). Businesses should consult a Cisco Authorized Technology Provider or their Cisco account manager.

Upgrades

Upgrades from prior releases require Cisco Software Support Service (SWSS).

Cisco services

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