Cisco Business Edition 6000 Solutions

Collaboration System Release Versions 10.5 and 10.6

The Cisco® family of Business Edition 6000 (BE6000) solutions gives employees a full range of collaboration tools: premium voice, video, messaging, instant messaging and presence, conferencing, video conferencing, contact center services, mobility capabilities, and more. With these tools your small or midsize business can boost productivity among employees and strengthen relationships with customers and business partners. And they can help you speed decision-making and reduce time-to-market.

The Cisco BE6000 family is purpose-built for companies with 25 to 1000 employees. The solutions consist of one or more modular, stackable servers so you can easily add more capacity to support additional users. And because they use virtualization technology, they pack a lot of collaboration tools into a small form factor.

Cisco BE6000 is delivered with a suite of ten preloaded, ready to activate Unified Communications and Collaboration applications. And as your business needs grow, you can easily "turn on" the additional application options supported, including contact center, video conferencing, and more.

With these choices in size and functionality, you can select a collaboration engine that meets your business's specific needs.

Platform Model Options

Cisco BE6000 platforms are built on virtualized Cisco Unified Computing System™ (Cisco UCS®) products, which are designed for performance and density over a wide range of company sizes and business workloads. There are three models:

- BE6000H: Supports nine collaboration application options in a single virtualized server platform; maximum capacity of 1000 users, 2500 devices, and 100 contact center agents. Ideal for medium to large-scale end-to-end collaboration deployments (See Figure 1).
- BE6000M: Supports five collaboration application options in a single virtualized server platform; maximum capacity of 1000 users, 1200 devices, and 100 contact center agents. Ideal for medium-scale end-to-end collaboration deployments.
- BE6000S: Supports five fixed collaboration applications in a single integrated router/gateway/virtualized blade server platform; maximum capacity of 150 users and 300 devices. Ideal for small-scale "office in a box" collaboration deployments (See Figure 2).

The servers are delivered ready for use, with a preinstalled virtualization hypervisor and ten preloaded applications. Specific details of BE6000 platform components are available at the links provided in following section.

Figure 1. Cisco BE6000H/M: Built for Medium-Scale Collaboration Deployments

The Cisco BE6000 is a packaged solution that comes preloaded with virtualization and applications software and is preconfigured with core UC applications. Simply turn on additional collaboration applications as your business needs grow.
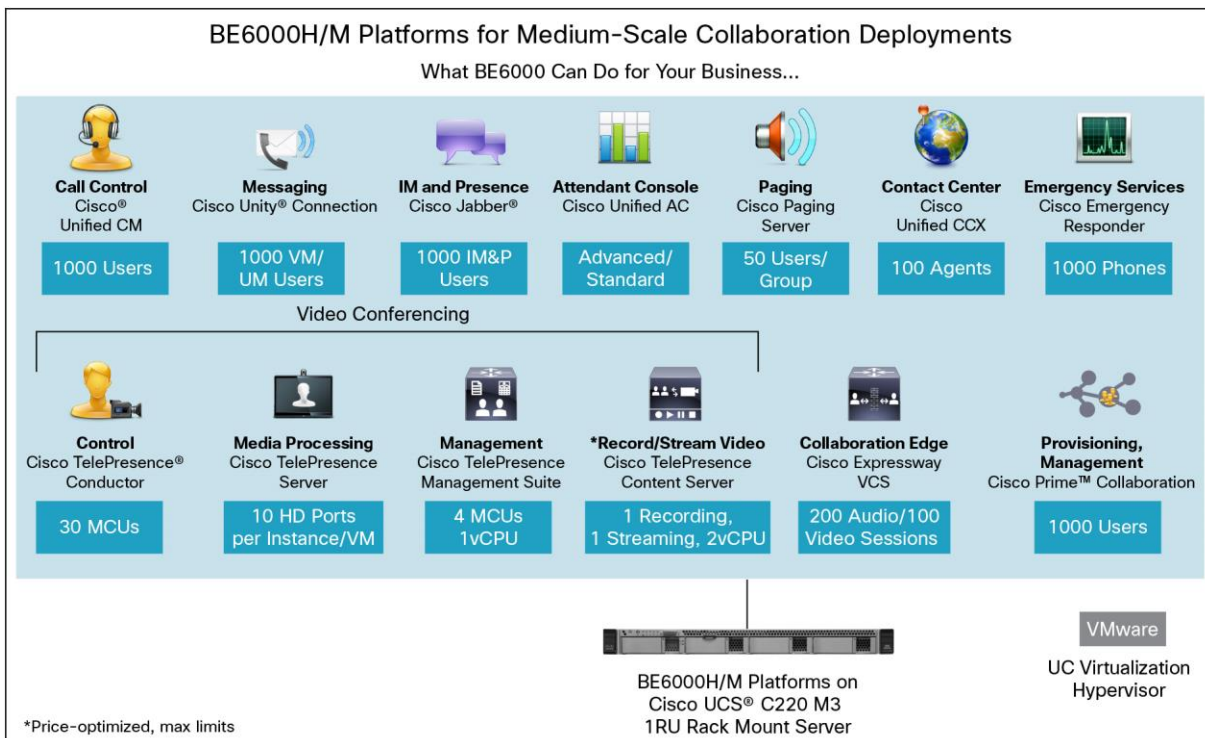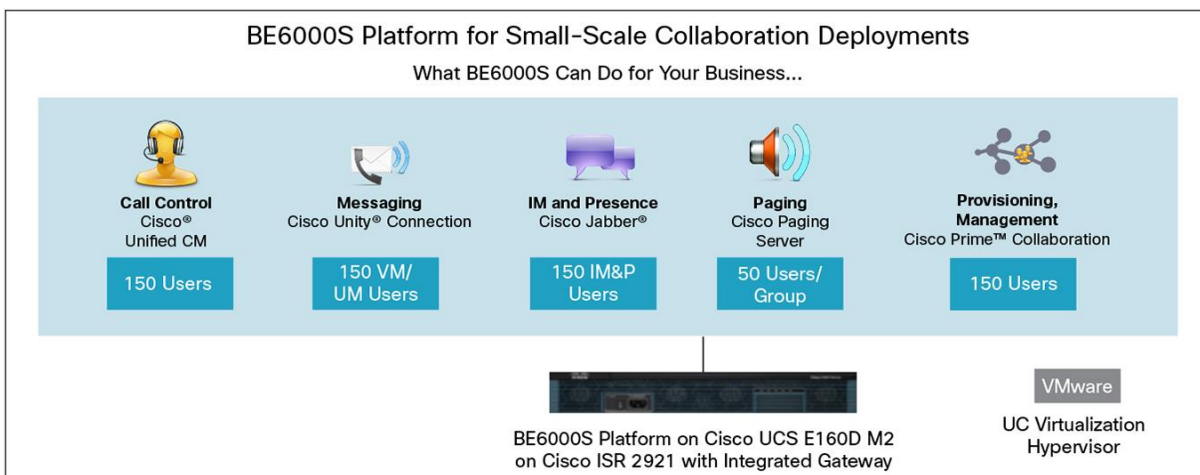

Figure 2. Cisco BE6000S: Built for Small-Scale Collaboration Deployments

This small-density, integrated router, gateway, and blade server is ideal for small sites that need basic, entry-level voice and IP telephony capabilities, together with powerful, easy-to-use collaboration tools.

Licensing

The collaboration applications in the BE6000 platform models are licensed on a per-user basis. Each BE6000 platform model includes a choice of highly discounted Cisco User Connect Licenses (UCL) or Cisco Unified Workspace Licenses (UWL) for the first 25 users of foundation applications listed in the following section. You can purchase additional applications and user licenses a-la-carte, based on BE6000 model type.

Foundation Applications

The following applications are typically used together to deliver the core unified communications features of each BE6000 platform model:

- Cisco Unified Communications Manager (Cisco Unified CM) is the call-processing engine of Cisco's Collaboration Architecture. It extends voice and video features to network devices such as IP phones, telepresence endpoints, media-processing devices, gateways, and multimedia applications. It is equipped with instant messaging and presence services, and multimedia conferencing, collaborative contact centers, and interactive multimedia response systems are made possible through Cisco Unified CM open telephony APIs.

- Cisco Unified Communications Manager IM and Presence Service provides native standards-based, enterprise instant messaging (IM) and network-based presence as part of Cisco Unified Communications. IM and Presence Service is secure, scalable, easy-to-manage, and rich in features. It's tightly integrated with Cisco Jabber® desktop and mobile instant messaging and presence clients - and Cisco Jabber Software Development Kit (SDK). Collaboration clients such as Cisco Jabber leverage IM and Presence Service to perform many functions such as instant messaging, presence, click-to-call, phone control, voice, video, visual voicemail, and web collaboration.

- Cisco Unity® Connection integrates voice-messaging and voice-recognition functions to provide continuous global access to calls and messages. Its advanced convergence-based communication services allow you to use natural-language voice commands to place calls or listen to messages in hands-free mode and to check voice messages from your desktop, either from your email inbox or using a web browser. It also provides robust Automated Attendant functions, including intelligent routing for incoming calls and easily customizable call-screening and message-notification options.

- Cisco Prime™ Collaboration provides an automated process for initial deployments and for "day 2" moves, adds, changes, and deletions. An intuitive user interface provides a single view of a subscriber and the subscriber's services. Prime Collaboration significantly accelerates site rollouts and dramatically reduces the time required for ongoing changes. The result? Exceptional productivity gains and lower operating expenses. In addition, Prime Collaboration simplifies the tasks, allowing organizations to optimize IT resources and further reduce total cost of ownership.

- Cisco Licensing (including Cisco Prime Licensing Manager [PLM]) makes usage and reporting simple. PLM provides a centralized, at-a-glance view of compliance and allows for redistribution of licensing among supported products. User licensing - based on user profiles - aligns with Cisco User Connect Licenses (UCL) and Cisco Unified Workspace Licensing (UWL) purchasing models.

Additional Collaboration Options

To complement the core unified communications applications detailed previously, you can also choose to deploy the following collaboration applications with the BE6000M and BE6000H platform models:

- Cisco TelePresence Server helps make video pervasive for all users from browser to boardroom. It supports multiparty high-definition (HD) videoconferencing capabilities as a co-resident application. Flexible licensing options allow you to deploy conferencing in the way that best suits your needs. Cisco TelePresence Server can be licensed in conjunction with Cisco TelePresence Conductor on a per-user basis for high-quality small-group ad-hoc and MeetMe conferencing, either with Cisco Unified Workspace Professional Licensing, Personal Multiparty Conferencing, or on a concurrent call (screen) basis.

- Cisco TelePresence® Conductor simplifies and enhances conference resource management, making conferences easy to join and administer. It uses knowledge of all available video conferencing resources and their capabilities to help ensure dynamic, intelligent conference placement and optimum resource usage.

- Cisco TelePresence Management Suite offers flexible scheduling capabilities for video meetings, including the ability to integrate with Microsoft Exchange and Microsoft Office 365. It also works alongside Cisco TelePresence Conductor to enable user self-service personalization of individual conferencing environments (Collaboration Meeting Rooms).

- Cisco TelePresence Content Server simplifies the process of capturing and sharing many types of content throughout the organisation including: videoconferences, lectures, training sessions, and meetings. It allows users to create and manage business-quality multimedia content easily from any H.323 or Session Initiation Protocol (SIP) video endpoint, as well, to distribute that content - live or recorded - to any PC, portable media device, or to Cisco Show and Share.

- Cisco Expressway is an advanced multimedia gateway that helps make collaboration as simple, secure, and effective outside the organization as it is inside. It gives video-enabled teleworkers and mobile Cisco Jabber users access to their full collaboration workloads without requiring a VPN. Cisco Expressway simplifies business-to-business video and supports Jabber® Guest for business-to-consumer collaboration. Cisco Expressway also eases migration by enabling video interoperability with third-party standards-based systems - including Microsoft Lync 2013.

- Cisco Unified Contact Center provides high-quality call center capabilities, including agent-based services as well as fully integrated self-service applications, sophisticated and distributed automatic call distributor (ACD), interactive voice response (IVR), customer voice portal (CVP), and computer telephony integration (CTI).

- Cisco Unified Attendant Consoles provide the human attendant console operator with the tools to quickly accept and effectively dispatch incoming calls to individuals across the organization.

- Cisco WebEx® Web Conferencing accelerates business results by making your web meetings more productive. This people-centric cloud-based collaboration solution can enable team members to share information easily through any computer or mobile device. WebEx® Meetings allows people to attend meetings any time, from anywhere, inside and outside corporate firewalls.

- Cisco Emergency Responder helps assure that Unified Communications Manager sends emergency calls to the appropriate United States Public Safety Answering Point (PSAP) for the caller's location, and that the PSAP can identify the caller's location and return the call if necessary. The system automatically tracks and updates equipment moves and changes, helping ensure better compliance with legal or regulatory obligations and reducing the risk of liability related to emergency calls as a result.

- Cisco Paging Server provides paging capabilities for all users. It supports basic and advanced paging features. Basic paging features require no license and allow point-to-point or group audio paging between groups of up to 50 Cisco IP Phones. An advanced paging license allows unlimited paging groups. It also makes possible other advanced functions, including paging to overhead analog and IP speakers, bell scheduling, prioritizing emergency notifications with the call-barge option, prerecorded and text-only pages, integration with social media sites for notification, email and Short Message Service (SMS) mass notification and all-number monitoring, Emergency Services alerting, and integration with Jabber clients.

In addition, when used with a Cisco UC Virtualization Hypervisor license, BE6000M and BE6000H platform models support co-residency of approved third-party collaboration applications as described in the Co-residency Policy. Virtualization Hypervisor licenses may be upgraded to host any application if required.

Warning: Installation of an unapproved application on any BE6000 platform model would be in violation of the Virtualization Hypervisor license terms and would invalidate product warranty and support.

Solution Specifications: System Capacity

Tables 1 and 2 list the system capacities supported by the BE6000 platform models. For detailed design guidance and deployment models, please refer to the Cisco Validated Designs Guides, the Solutions Reference Network Design (SRND) Guides, and the wiki pages.

Table 1.   Cisco BE6000S Model System Capacity

Attribute	Capacity
Maximum number of users	150
Maximum number of mailboxes and voicemail ports	150 mailboxes and 24 voicemail ports
Number of presence users	150
Number of devices supported	300
Maximum number of fixed applications	Fixed combination of five applications: Cisco Unified Communications, Cisco Unity Connection, Cisco Instant Messaging and Presence Service, Cisco Paging Server, plus Cisco Prime Collaboration Provisioning (management). Additional Cisco and third-party applications are not supported.

Table 2.   Cisco BE6000M and BE6000H Models System Capacity

Attribute	Capacity
Maximum number of users	1000
Maximum number of mailboxes and voicemail ports	1000 mailboxes and 24 voicemail ports
Number of contact center agents	100
Number of presence users	1000
Number of devices supported	BE6000H: 2500 devices BE6000M: 1200 devices
Maximum number of co-resident applications	BE6000H: Choice of up to Nine applications (Eight collaboration + One management) BE6000M: Choice of up to Five applications (Four collaboration + One management)

Table 3. Ordering Cisco Business Edition 6000 Platform Models

Part Number	Description
BE6H-M4-K9= BE6H-M4-XU=	Cisco Business Edition 6000H Server (Restricted Export Software) - **Available Q1 CY2015** Cisco Business Edition 6000H Server (Unrestricted Export Software) - **Available Q1 CY2015**
BE6M-M4-K9= BE6M-M4-XU=	Cisco Business Edition 6000M Server (Restricted Export Software) - **Available Q1 CY2015** Cisco Business Edition 6000M Server (Unrestricted Restricted Export Software) - **Available Q1 CY2015**
BE6K-STBDL-PLS-K9= BE6K-STBDL-PLS-XU=	Cisco Business Edition 6000H Server (Restricted Export Software) Cisco Business Edition 6000H Server (Unrestricted Export Software)
BE6K-ST-BDL-K9= BE6K-ST-BDL-XU=	Cisco Business Edition 6000M Server (Restricted Export Software) Cisco Business Edition 6000M Server (Unrestricted Export Software)
BE6S-PRI-M2-K9	Cisco Business Edition 6000S Server/Router/Gateway (1 PRI + 10 CUBE) - **Available Q1 CY2015**
BE6S-BRI-M2-K9	Cisco Business Edition 6000S Server/Router/Gateway (4 BRI + 10 CUBE) - **Available Q1 CY2015**
BE6S-FXO-M2-K9	Cisco Business Edition 6000S Server/Router/Gateway (4 FXO + 10 CUBE) - **Available Q1 CY2015**

Ordering Information

To order any BE6000 platform model, simply purchase the required number of servers and add application licensing to enable the required mix of features and number of users. Cisco channel partners and resellers can refer to the Cisco Business Edition 6000 Ordering Guide for further information.

To place an order, contact your local Cisco representative or visit Cisco.com Locate a Partner - search on "Express Collaboration Specialization (ECS)", "Advanced Collaboration Architecture Specialization (ACAS)", "Advanced Unified Communications (AUC)" or "Cisco Authorized Business Edition Reseller" to find a certified unified communications partner in your local area.

Cisco Unified Communications Services

Cisco Unified Communications Services help you accelerate cost savings and productivity gains associated with deploying Cisco Unified Communications in your network. Delivered by Cisco and our certified partners, our portfolio of deployment and technical support services is based on proven methodologies for unifying voice, video, data, and mobile applications on fixed and mobile networks. Our unique lifecycle approach to these services can help you provide your users with powerful new ways to collaborate with co-workers, partners, and customers across any workspace to accelerate business advantage.

To learn more, please visit http://www.cisco.com/go/ucservices.

For More Information

To learn more about Cisco Business Edition 6000 Solutions, visit: http://www.cisco.com/go/be6000.

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