

# Cisco® Unified Communications: New Deployment Models for Communications and Collaboration

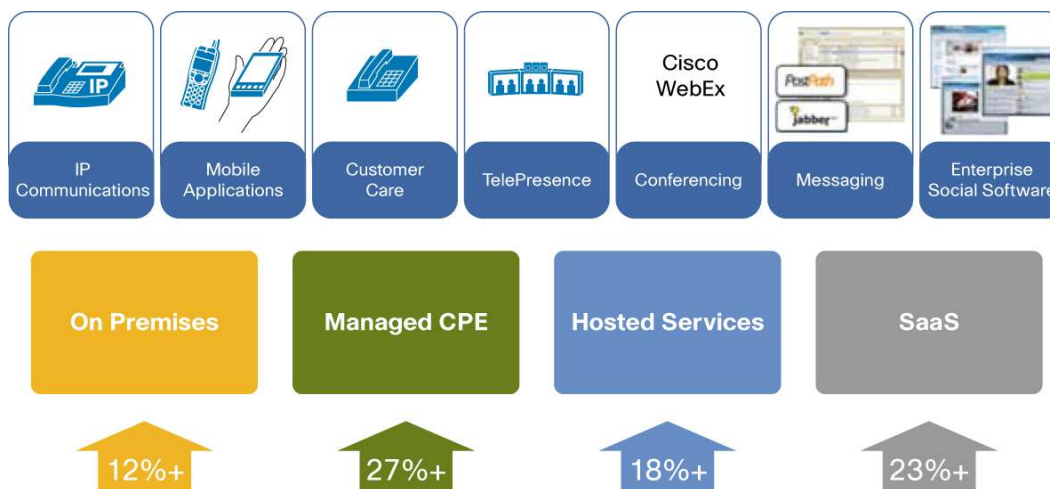
## What You Will Learn

According to a new survey by Forrester Research, 7 out of 10 enterprises are investing in collaboration solutions<sup>1</sup> like unified communications. A majority of these organizations will outsource some or all of the software and hardware needed to enable their companies for collaboration. Today, there are many deployment options for unified communications (Figure 1), including:

- On-premises call control
- Managed customer-premises equipment (CPE) services
- Fully hosted unified communications
- Collaboration-as-a-service (CaaS)
- Hybrid model

This document will help you understand the differences between the options and show you how Cisco Unified Communications and Collaboration solutions give you the flexibility to determine the best option for your business.

**Figure 1.** There Is Growing Interest in Managed Service Deployment Models



Year-on-year compounded annual growth rate (CAGR), 2009-2013; Forrester Research, March 2009: Cisco Commissioned Research on Global Managed Services Opportunity.

## Despite Budget Constraints, Unified Communications Implementation Is Proceeding

Limited resources, demands for greater efficiency and responsiveness, the need to differentiate in a highly competitive market, less travel but more customer interaction, the need to move faster and with more accuracy to become an on-demand business - these are the complexities of today's business environment and the reasons why unified communications and collaboration are more relevant than ever. With unified communications, organizations

<sup>1</sup> Forrester Research, Global Managed Services Opportunity

can obtain up to 2 hours of more productive work from individuals each day.<sup>2</sup> Unified communications also enables teams to be more productive and effective.

### Growing Interest in Managed Services

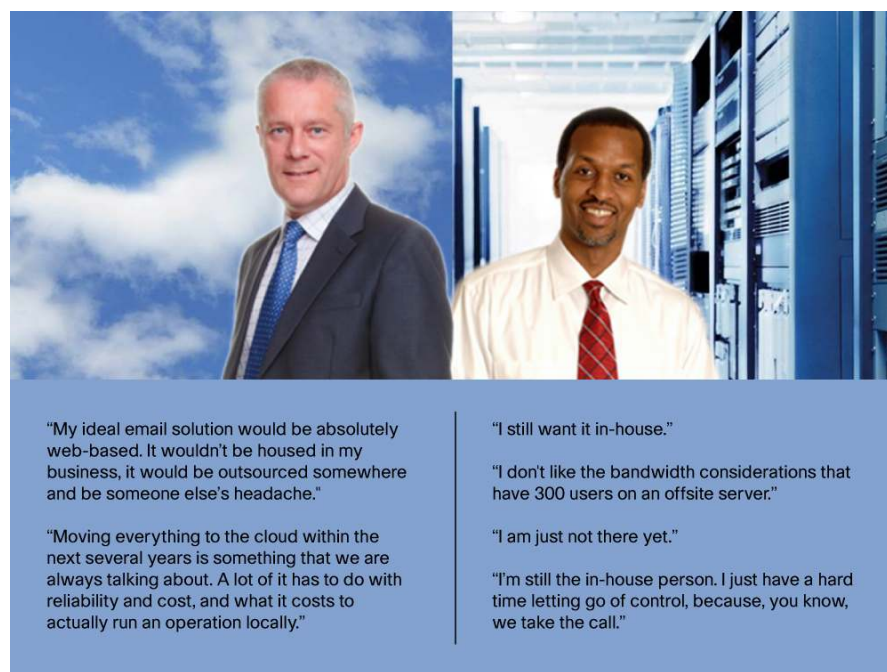
Business complexity is also causing companies to consider new deployment models for anything that is not a core area of expertise. This is why a growing number of companies are evaluating managed services. When compared to company-owned-and-operated collaboration, managed services allow companies to focus less on IT and more on core competencies. Managed services also:

- Reduce capital expenditures (CapEx)
- Lower operating expenses (OpEx) and total cost of ownership (TCO)
- Enable faster time-to-market
- Mitigate technology risk and avoid obsolescence
- Lower carbon footprint and power needs
- Enable companies to flexibly scale up and down

In March 2009, Cisco commissioned industry analyst Forrester Research to conduct a study of the deployment models that Cisco customers are considering. The survey showed that between 2009 and 2013, the demand for managed services would grow significantly, outpacing the traditional deployment model of buying and managing unified communications and collaboration technology on premises (Figure 2). The vast majority of companies indicated that they would:

- Choose hosted collaboration services, letting their provider host dedicated equipment for their organization
- Follow the managed CPE model, in which they would buy the equipment and keep it on site but have a service provider manage it
- Opt to pay a license fee and have collaboration services delivered by a service provider over the cloud

**Figure 2.** CIOs Discuss Outsourcing in Cisco Blind Focus Groups



<sup>2</sup> Chadwick Martin Bailey, 2008

## The Importance of an Open, Interoperable Approach

Many unified communications and collaboration solutions require customers to make a choice between deployment models. They can opt to work with a cloud-based vendor *or* a cloud-based service provider. They can own and manage the equipment themselves *or* have it owned and managed by a service provider.

**“The bottom line is the infrastructure can be anywhere. What you really want is for your business to be able to connect to your systems anyplace, anywhere, anytime. That’s what we want.”**

— Cisco Blind Focus Groups

With Cisco Unified Communications and Collaboration solutions, you are not bound by a single deployment model, so you can choose the deployment model that makes sense for your business, or have the best of both owned and managed worlds. Cisco’s open and interoperable approach provides the full spectrum of deployment models. Service delivery options for Cisco Unified Communications and Collaboration solutions include:

- CPE, in which the customer owns and manages the hardware and software
- Managed CPE services, in which the customer owns the solution, but the service provider manages it
- Fully hosted unified communications, in which the service provider hosts dedicated equipment within its network operations center (NOC) for a predictable monthly cost
- CaaS, or managed cloud services, in which the service provider or system integrator maintains and owns the software, which is delivered over the cloud, and the customer pays a license fee to use it
- Hybrid or blended model, that has a mix of on-premises and managed services

With Cisco’s open and interoperable platform, you have complete flexibility to match the delivery model to your preferences and business needs, as well as to your older technology investments. You can also combine aspects of all delivery models, a capability that is possible only with Cisco’s open and interoperable approach. This flexibility may be critical for attaining or maintaining a competitive advantage in the future as new collaboration technologies become available. In addition, because Cisco Unified Communications transparently brings disparate applications, devices, and environments together, you’ll have an integrated user experience over a variety of workspaces. Even if applications are delivered over both cloud and premises infrastructure, all users will have a consistent experience.

**“Medium and large businesses will appreciate the economies provided by hosted IP telephony, but will seek such solutions mostly so they can focus on core businesses processes and gain access to applications and capabilities that they can test without making a capital investment.”**

— Elka Popova, Global Program Director, Frost & Sullivan

## Which Deployment Option Is Right for Your Business?

Whether you want basic IP dial-tone or telepresence service or IP contact centers or federated presence, now you can obtain the productivity benefits of these and other powerful communications and collaboration services, regardless of your current set of circumstances. With the wide range of deployment options available today, you can opt to deploy pure models (for example, only cloud or only premises solutions), or you can choose blended models, according to your unique business needs. For example:

- If your company views technology as a competitive differentiator: The traditional CPE model is ideal for you if technology is a strategic part of your value proposition and you want to do handle everything yourself. You

purchase and integrate the tools and build the knowledge, skills, and processes to manage your converged network and the new unified communications and collaboration solutions that run on it. Your IT staff, in essence, becomes a service provider for your organization.

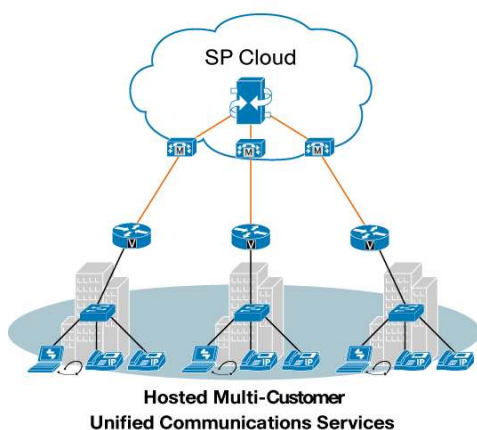
- If your company wants to focus less on IT and more on core competencies: Managed CPE is something you should consider if you want to own the unified communications infrastructure and software, but you want your IT staff to be able to take on other strategic initiatives, or your IT staff is lacking the required expertise. A service provider with unified communications and collaboration expertise can help you transform your organization and lower your OpEx because the service provider manages the hardware and software. This arrangement eliminates on-premises management and maintenance costs such as full-time help desk and server support, freeing your IT staff to focus on other tasks.
- If your company is in a hurry and is risk averse: Fully hosted unified communications may be the deployment model for you if you want to build competitive advantage with leading unified communications and collaboration technologies fast, but you are unsure that your IT staff can handle an enterprisewide initiative. You'll have all the benefits of unified communications with none of the capital outlays and IT support (Figure 3).

When the service provider purchases and hosts dedicated hardware and software, you can take full advantage of the benefits of unified communications without the upfront capital equipment and licensing costs of installing the applications on site. Your service provider handles it all. You have to deal with only one supplier, one bill, and one help desk for your telephony and unified communications needs.

Hosted unified communications also mitigates risk and allows you to concentrate on differentiating your core business from your competitors'. All these benefits are provided for a predictable per-user, per-month fee that becomes a standard business expense.

**Figure 3.** Hosted Unified Communications System

- Call Control, Provisioning and applications in the cloud
- Phones, other applications on premises



- If your company is CapEx-constrained and uncertain about the future: Consider CaaS if, like many companies today, you need to do more with less: fewer people, less budget, and less lead time. A software-based delivery model provides unified communications and collaboration services through private clouds. Cloud services deliver rapid time-to-value and are typically paid for as they are used - some providers bill by the second - and you pay for only the required capacity and features. This utility-based pricing model eliminates the cost of directly buying, installing, and maintaining the needed hardware and software (Figure 4).

With CaaS, your company can quickly scale the benefits of unified communications and collaboration across the enterprise and then scale down, depending on your needs, all without your having to manage the

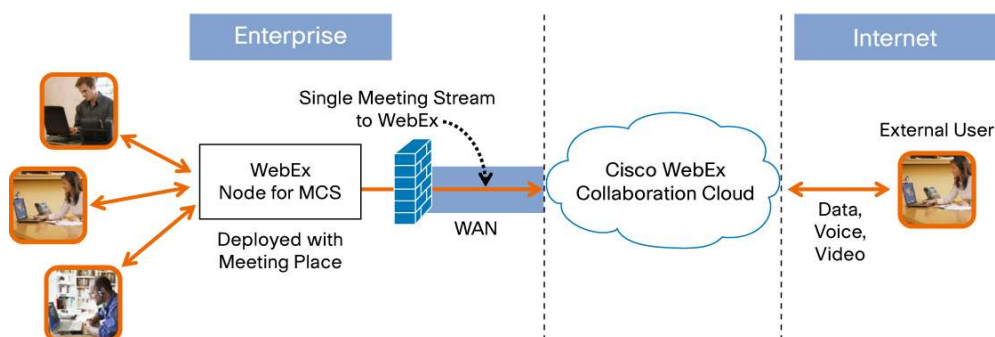
infrastructure. CaaS, or managed cloud services, offers the potential to provide the same level of support for converged applications as a CPE solution. CaaS is also a green deployment model, not only because collaboration technologies reduce travel, but also because your company will not be increasing its carbon footprint.

One potential drawback to the CAAS model is that the service provider determines the capabilities, so you may not have all the features available to you that you would if you owned and managed the system yourself. However, if you work with a systems integrator, you can have input into functions.

**Figure 4.** Web Conferencing in the Cloud and Audio Conferencing on Premises

#### WebEx Node for MCS

- Web Conferencing from cloud
- Audio Conferencing from premises
- Internal only meeting options
  - Media traffic stays behind the firewall
  - Recording stays on premise

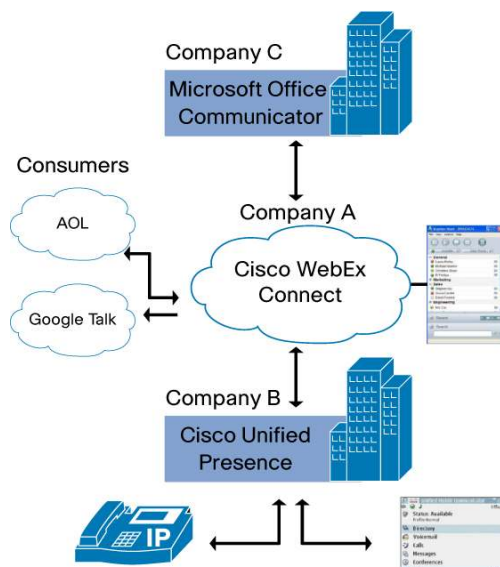


- If your company is seeking investment protection and flexibility: A blended or hybrid model may be your best option if you have older private branch exchange (PBX) and IP equipment and want to introduce new unified communications and collaboration capabilities without introducing more complexity for your IT staff. With an open and interoperable platform, you can use cloud and premises benefits for particular components. Blended models also help ensure state-of-the-art capabilities because solution providers typically use the most current versions of software and hardware.

You can integrate standalone applications across departments (federation) even if other departments have different deployment models. You can deploy some applications on premises and some in the cloud, working together (application integration). You can also take functions of the same applications and deploy some in cloud and some on your premises (componentization); for example, presence federation can be enabled between on-premises and cloud-delivered unified communications (Figure 5). More important, you can evolve your blended deployment model as your needs evolve and change or as new collaboration technologies become available.

**Figure 5.** Presence Federation

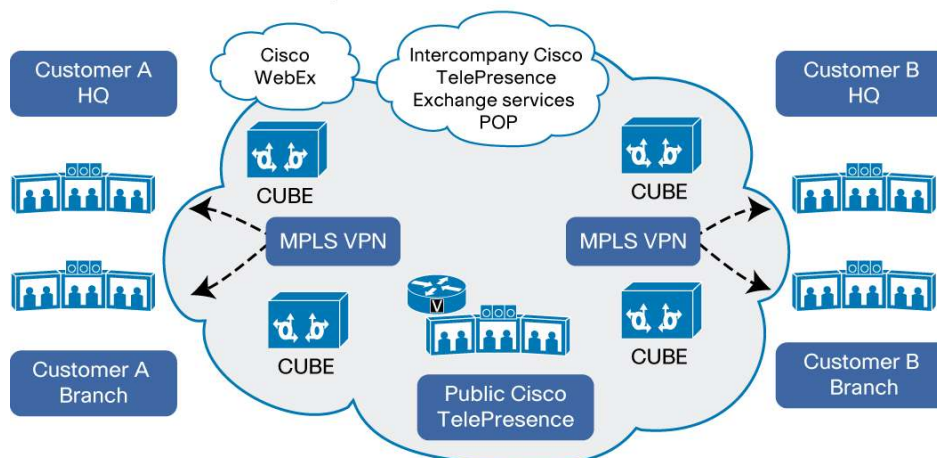
- Presence Federation between Business and Consumer Clouds
- Presence Federation between Business Cloud and Business On-premises deployment



Intercompany telepresence can be deployed in a similar fashion. On-premises telepresence systems can be connected to public and private systems with connectivity, scheduling, and directory in the service provider cloud (Figure 6). Blended deployment models can deliver web-speed innovation *and* policy compliance, rapid time-to-value *and* low life-time TCO, global reach *and* optimized experience, and the latest technology *and* investment protection.

**Figure 6.** Intercompany Telepresence

- TelePresence Systems on-premises
- Connectivity, Scheduling, Directory in Service Provider Cloud
- Connects Public and Private Systems



### Wide Range of Unified Communications and Collaboration Applications

When unified communications and collaboration technologies are open and interoperable, you have the flexibility to start small and grow as your business and budget allows. Managed services include:

- Basic services: IP dial tone, voicemail, basic mobility, and audio conferencing



- Advanced services: Web collaboration, unified communications (for example, instant messaging, presence, and enhanced telephony), unified messaging, and autoattendant
- Premium services: Mobile collaboration, business-to-business collaboration, telepresence, communication-enabled business processes, and customer care with self-service and intelligent routing

You can obtain managed unified communications and collaboration services from three types of providers:

- Network-designated service provider powered by Cisco products:
  - Cisco Hosted Collaboration Solution (Cisco HCS). Cisco HCS is an offering that allows Cisco partners to provide a wide range of Cisco collaboration applications to their customers in a subscriber-based, “as a service” offer. For end-user organizations, the Cisco Hosted Collaboration Solution provides exceptional flexibility in choosing the way that collaboration applications are deployed. The capability to choose a hosted deployment option can also help customers deploy collaboration technologies faster while potentially lowering capital expenditures (CapEx) and operating expenses (OpEx). The Cisco Hosted Collaboration Solution is built on these four pillars:
 

**Cisco Unified Communications and Collaboration:** Cisco Unified Communications System 8.0 offers the industry’s broadest portfolio of applications and capabilities. The Cisco Hosted Collaboration Solution makes this portfolio available in a hosted environment.

**Optimized Virtualization Platform:** This is based on Cisco Unified Computing System (UCS), a next - generation integrated data center system that simplifies operations. The Cisco Unified Communications Hosted System has been optimized to run on UCS and can improve performance, lower the cost of ownership, and increase operational productivity.

**Centralized Management:** This environment is centered on operational efficiency, from initial implementation and services activation to ongoing provisioning, including moves, adds, and changes.

**Service Provider System Architecture:** This aggregation layer is designed to integrate into a service provider’s environment, specifically, into the carrier-grade network infrastructure of applications, tools, and components.
  - Dubai service provider, du, offers bundled packaged services to meet the IP communications needs of small to medium-sized businesses (SMBs). Its hosted voice service provides functions equivalent to those of a traditional PBX, including features such as multiparty call conferencing, extension mobility, voicemail, call forwarding, call waiting, and music on hold. Companies pay by the second on all calls, with free local calls and up to 50 percent savings on all international calls.
  - AT&T offers a fully managed, ready-to-use managed telepresence service that provides business-to-business telepresence in (23 countries), allowing companies to eliminate place-to-place meetings with face-to-face meetings regardless of geography.
  - British Telecom (BT) now provides global cloud-based, hosted unified communications services. BT’s new cloud-based services free valuable IT resources to focus on strategic business priorities, while enabling organizations to retain the capability to quickly switch on new productivity-enhancing collaborative communications technologies, such as application sharing, messaging, and conferencing. A feature-rich web portal allows companies to reconfigure users’ phones, set up phones for new staff members, and manage name and number displays. Extension mobility features make it possible for users to log in at any phone and have their full profile and settings available, anywhere in the world.

“Delivering hosted unified communications and collaboration services is a demanding and complex operation. We're excited to be working with the Cisco Hosted Collaboration Solution, which is designed to simplify operations and deliver services in the most efficient and profitable manner.”

— Roger Wuethrich-Hasenboehler, Executive Vice President and Member of the Board, Swisscom

## Conclusion

The many benefits of unified communications and collaboration can be obtained in a wide variety of ways today. With an open and interoperable approach, companies can:

- Own and manage systems in-house
- Own the system but have a service provider manage it
- Have a managed service provider purchase dedicated equipment and host it
- Have the service provider or system integrator deliver unified communications services over the cloud
- Use a blended model that provides the best of all deployment options

The flexibility to deploy unified communications and collaboration solutions based on your business needs means that more companies can build competitive advantage even during times of great business complexity.

## For More Information

<http://www.cisco.com/web/go/hostedcollab>.



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